ERDC/GSL SR-11-1

Geotechnical and Structures Laboratory

US Army Corps of Engineers®
Engineer Research and Development Center

Ultra High Performance Concrete Information and Literature Search - 2011

(UHPC I&LS-2011)

Beverly P. DiPaolo

August 2011

ERDC/GSL SR-11-1
August 2011

Ultra High Performance Concrete Information and Literature Search – 2011

(UHPC I&LS-2011)

Beverly P. DiPaolo

Geotechnical and Structures Laboratory
U.S. Army Engineer Research and Development Center
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

Final report

Prepared for Headquarters, U.S. Army Corps of Engineers
Washington, DC 20314-1000

Under DHS S&T Directorate Inter/Intra-Agency Agreements
HSHQDC- 10-X-00194 and HSHQDC-09-X-00460
Advanced Materials Effort and Counter IED Mitigation (Active Blast Protection)

Abstract: Ultra high performance concrete (UHPC) materials are advanced cementitious materials that display much higher levels of technical performance compared to conventional strength and high strength concretes. This category can include materials such as defect-free, dense particle, reactive powder, engineered composite, multi-scale particle, and fiber-reinforced concretes. UHPC materials can have unique advantages with respect to response capabilities, mechanical properties, environmental stability, construction methods and forms, and aesthetic qualities, and have the potential to help revitalize a deteriorating infrastructure. This report is the 2011 version of search results for open-source information and technical literature references on UHPC materials. References are provided on product information from engineering and scientific journals, conference proceedings, magazine articles, books, and patents. The scope extends from basic and applied research to construction projects.

Contents

Figures and Tables

Figures

Preface

The research for the Ultra High Performance Concrete Information and Literature Search-2011 reported herein was conducted by personnel of the U.S. Army Engineer Research and Development Center (ERDC). Funding for the work was provided by the Department of Homeland Security, Science and Technology Directorate, Infrastructure Protection and Disaster Management Division: Mila Kennett, Program Manager.

Dr. Beverly P. DiPaolo is the author of this report and is an ERDC staff member in the Structural Engineering Branch (SMB), Geosciences and Structures Division (GSD), Geotechnical and Structures Laboratory (GSL). The work was performed under the general direction of Dr. Gordon W. McMahon, Chief, SMB; Bartley P. Durst, Chief, GSD; Dr. William P. Grogan, Deputy Director, GSL; and Dr. David W. Pittman, Director, GSL.

The author gratefully acknowledges Deborah J. Carpenter, Jim A. Dolan, Susan D. Hicks, Helen Ingram, Nancy C. Liston, Mary E. McAlpin, and Ruthie G. McCoy of the ERDC Information and Technology Laboratory and George G. Tom of ACE-IT for their help and assistance in the database searches and procurement of information. The author also thanks Brian H. Green of the GSL Concrete and Materials Branch and Professors David L. McDowell and Min Zhou, Brett Ellis, Jennifer Gordon, Christopher Lammi, and Andrew Moore from the George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, for their assistance in obtaining reference materials.

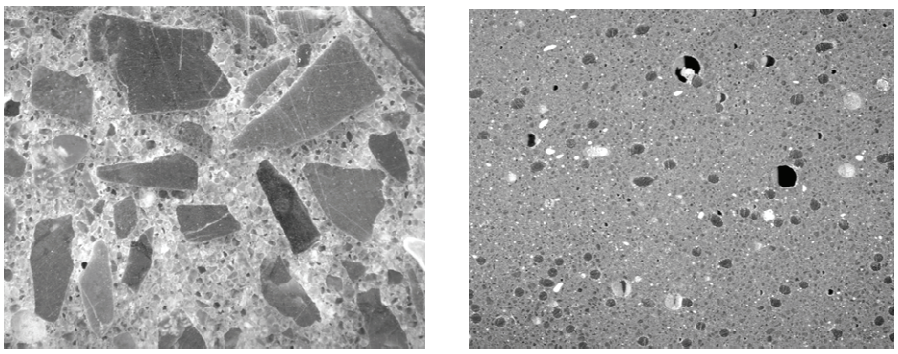
COL Kevin J. Wilson was Commander and Executive Director of ERDC. Dr. Jeffery P. Holland was Director.

1 UHPC Materials and UHPC I&LS-2011

Currently, there is a critical need for advanced building materials for the U.S. domestic infrastructure, not only for new high-performance construction, but also to enhance the performance of existing structures. These materials are required to be increasingly more energy-efficient, environmentally friendly, sustainable, and resilient. They need to meet multi-hazard and multi-performance design criteria and be easily produced and incorporated into construction. Furthermore, these materials must be cost effective through a structure's life cycle.

Concrete is the most widely used material in building construction. However, there are durability, security, and sustainability issues concerning current commercially available products. Within the last few decades, research has been conducted on advanced cementitious materials displaying ultra high performance characteristics. This includes a broad range of materials such as defect-free, dense particle, reactive powder, engineered composite, multi-scale particle, and fiber-reinforced concretes. Research and commercial brands are available and examples are BCV® - beton composite vicat, BSI - Beton Special Industriel, CARDIFRC®, $\text{Cemtec}_{\text{multiscale}}$®, Ceracem®, CRC® - compact reinforced composites, Cor-Tuf®, DSP - densified small particles, Densit®, DFG UHPC, DORSICEM, Ducon®, Ductal®, MDF - macro-defect free, Microdur®, NIM - new inorganic materials, RPC - reactive powder concrete, SIFCON, and SIMCON.

For purposes of the current research effort, a definition of ultra high performance concrete (UHPC) is a class of "concrete" materials that display "ultra high" performance in at least one technical performance area and with an unconfined compressive strength approximately 20,000 psi (140 MPa) and higher. The materials can have high binder content and special fine aggregates. They may contain fibers to achieve non-brittle behavior and, if possible, to dispense with passive (non-prestressed) reinforcement. One type of UHPC material of interest has very small pores, low porosity, and disconnected pore spaces, and steam curing and pressure can be used to attain strengths approaching 30,000 psi (210 MPa) and higher. Example microstructures of a conventional strength concrete material and a reactive powder UHPC material are shown in Figure 1.



A conventional concrete A UHPC material

Figure 1. Microstructures of two concrete materials

If viewed on the basis of just a cubic yard of material, the cost of UHPC materials can be over ten times greater than the cost of conventional strength concrete. However, UHPC materials may offer unique advantages and higher performance levels that justify the increased cost. Such factors to be considered include strength, ductility, flexibility and toughness, impact resistance, dimensional stability, durability / increased useful life, impermeability /freeze/thaw resistance, corrosion resistance, abrasion resistance, aggressive environment resistance, and chemical resistance. Other advantages may include ability to construct thin sections and use complex structural forms, elimination of passive reinforcement (reinforcement bars), precise replication, use of conventional concrete equipment, ability to cast by pouring, injection or extrusion techniques, self-consolidation, off-site manufacturing, fast construction, and reduced maintenance. From an aesthetic viewpoint, but also for security purposes such as disguising the appearance of the material, some UHPC mixtures may have color and texture options, sanded or polished surfaces, and even are made to look similar to materials such as stone or marble. Laboratory and field testing have shown that some UHPC materials may be significantly better than conventional concrete for protective structure applications. Research efforts on UHPC are being conducted around the world to reduce costs and use local and “green” materials.

In summary, advanced cementitious materials known as UHPC have a strong potential to help in the revitalization of a deteriorating infrastructure and in the building of new infrastructure that is sustainable, resilient, and long-lasting. However, to date, application of this material has been limited in the U.S. construction industry.

This UHPC Information and Literature Search-2011 (UHPC I&LS-2011) is a "work in-progress" to provide a listing of information on and references for UHPC materials with respect to basic and applied research, technical data, and project information. It is an expansion and update of an unpublished, baseline UHPC I&LS that was generated by the author in 2008. In the UHPC I&LS-2011 report, information and reference items from the baseline UHPC I&LS are given in black and not preceded by a symbol. An item preceeded by a plus sign (symbol "+") is a reference obtained subsequent to the 2008 version. An item preceded by a negative sign (symbol "-") and displayed in a light gray color was obtained from the reference section of a document referenced in the baseline UHPC I&LS, and the item content needs to be verified and its corresponding reference material needs to be obtained.

The UHPC I&LS-2011 is divided into three sections: Section 1 contains a listing of product information references; Section 2 is a bibliography of technical documents and articles from engineering and scientific journals, conference proceedings, magazines, and books; and Section 3 includes a list of U.S. and foreign patents on UHPC materials and their precursors. It is hoped that this report provides a helpful and efficient resource for anyone interested in UHPC materials and their potential to enhance infrastructure performance.

Section 1: UHPC Products and Information

The following is a listing of information on UHPC products, technical data, and projects:

Bekaert

Bekaert StrHiCsteel fibres 2003

+Ceracem. Sika Ceracem®: Brevet BSI®
http://www.sika.fr/construction/document/nt/nt275.pdf

+CRC® – Compact Reinforced Composite www.cr-tech.com
+CRC® – Intro web
+CRC® – A description
+CRC® – Compact Reinforced Composite
+CRC® – Durability
+CRC® – Safety Data Sheet
+CRC® JointCast
+CRC® JointCast – Handling instructions
+CRC® JointCast – Examples of applications

+CRC® Joints - High strength joints for precast bridge slabs – Summary report
+Tech-Wise – Off-shore wind turbine towers in high-strength concrete

Densit®

Densit® advantages[1]
+Densit® – CtO's field of operations
Densit® pro-concrete-binder[1]
Densit® pro-flexbinder-uk[1]
Densit® pro-inducast-3000-uk[1]
Densit® pro-inducast-4000-uk[1]
Densit® pro-inducast-6000-uk[1]
Densit® pro-inducast-tt5-uk[1]
Densit® security barriers
Densit®

Ductal® – Lafarge, Bouygues & Rhodia

Lafarge, Bouygues & Rhodia websites

http://www.lafargenorthamerica.com/wps/portal/
http://www.imagineductal.com/imagineductal/history.asp?RND=3P4IS40EFCDYIXR
http://www.bouygues.fr/us/index.asp
http://www.rhodia.com/us/home_tunel.asp
http://www.ductal-lafarge.com/cgi-bin/lafcom/jsp/homeDuctal.do?lang=en

Ductal® – Technical & Project Information

Ductal® – Technical Information
+CSTB Ductal® -FO Evaluation Technique, 28 pgs.
Ductal00 FAQ
Ductal00 Introduction Comm Kit
Ductal01 WhatIsDuctal
Ductal02 HowStrongIsDuctal
Ductal03 HowDurableIsDuctal
Ductal04 AestheticsOfDuctal
Ductal05 HowDuctileIsDuctal
Ductal® – Products and Services
+Ductal® A revolutionary new material for new solutions, 38 pgs.
Ductal® Aesthetic qualities
Ductal® At a glance
+Ductal® BS1000 – Product Data Sheet
Ductal® Characteristics
Ductal® Durability data
Ductal® Durability
Ductal® History and Evolution
Ductal® Mechanical performance
+Ductal® Product Data Sheet AN1000
+Ductal® Product Data Sheet AR1000
+Ductal® Product Data Sheet BS1000
+Ductal® Product Data Sheet CS1000
+Ductal® Product Data Sheet JS1000
Ductal® Spec-FM Gris 2GM2.0
Ductal® Spec-FM Gris 3GM2.0
Ductal® Spec-FM Gris Feu 2GM2.0F

Ductal® Spec-FM Gris Feu 3GM2.0F
Ductal® Spec-FO Blanc 2B04.3
Ductal® Spec-FO Blanc 3B04.3
Ductal® Spec-FO Gris 2G04.3
Ductal® Spec-FO Gris 3G04.3
Ductal® Standard Operating Procedure
Ductal® TechChar Metallic Fibres – Imperial
Ductal® TechChar Metallic Fibres – Metric
Ductal® TechChar Organic Fibres – Imperial
Ductal® TechChar Organic Fibres – Metric
Ductal® Trademark
+Ductal® Ultra-High Performance Concrete - Building Envelope Solutions
Ductal® What can Ductal do for you
Ductal® What is ductal
Lafarge cement manuf 1
Lafarge cement manuf 2
Lafarge cement manuf 3
Lafarge cement manuf 4
Lafarge Ductal® – Architectural Brochure
Lafarge Ductal® MechPerf web 2006
Lafarge Ductal® Passanti home 2007
Lafarge Ductal® Premix MSDS
Lafarge Ductal® R&D
Lafarge Research – Nanomaterials
Lafarge Research – Nanotechnologies – Monteiro
Monteiro – Strength presentation
RPC concrete
+VSL Ductal® - Roof protection system against mortar threats. 2007, 2 pgs.
+VSL, 2007. Ductal® solutions – from material to valuable, innovative solution. 2007, 2 pgs.
+VSL Ductal® protection solutions. 8 pgs.
z Lafarge Ductal® docs

Ductal® Projects
CN de Arts&Metiere Ductal
Ductal®-0-AESTHETICS
Ductal®-0-DUCTILITY
Ductal®-0-DURABILITY
Ductal®-0-STRENGTH
Ductal® – aalborgwhite wu_01_2007
Ductal® Applications Bridges & Footbridges – words
Ductal® Applications Bridges & Footbridges
Ductal® Applications Building Envelope
Ductal® Applications Urban Environment
Ductal® Architect Ductal Qualities
Ductal® Architect References
Ductal® Architect Testimony
Ductal® Discover Ductal Engineering Office
Ductal® Engr Office Methods & Calculations
Ductal® Engr Office References
Ductal® Engr Office Testimony
Ductal® Owner Durability and Maintenance
Ductal® Owner References
Ductal® Owner Standards and Certifications

Ductal® Owner Testimony
Ductal® Potential Applications
Ductal® Precaster Applications
Ductal® Precaster References
Ductal® Precaster Testimony
Ductal® Renovation
Ductal®- Structure
Ductal®-Bus shelter
Ductal®-Escaliers Decors – Staircase
Ductal®-Joppa long span silo roofs
Ductal®-Shawnessy LRTAwards PrRel
Ductal®-Thias Bus Center 03122007-MIPIM-uk
ETT Proposal FLA Ductal®
Lafarge Ductal® Making headlines-Photos
Lafarge – Ductal® – Correctional Facilities
Lafarge – Ductal® – Projects – 0 List – website
Lafarge – Ductal® – Projects – Alberta Construction
Lafarge – Ductal® – Projects – Anchor Plates for Seawall Tie
Lafarge – Ductal® – Projects – Anchor Plates
Lafarge – Ductal® – Projects – Cottenom Cooling Towers Beam
Lafarge – Ductal® – Projects – Detroit-Columns
Lafarge – Ductal® – Projects – Joppa Long Span Silo Roof
Lafarge – Ductal® – Projects – Martel Tree
Lafarge – Ductal® – Projects – Monaco Train Station
Lafarge – Ductal® – Projects – ratp thiais
Lafarge – Ductal® – Projects – Salon du Meuble 2006
Lafarge – Ductal® – Projects – Shawnessy LRT Station
Lafarge – Ductal® – Projects – Sherbrooke Bridge
Lafarge – Ductal® – Projects – The Footbridge of Peace
Lafarge – Seonyu – Ductal® 09162004-press_Skorea_042602-uk
Lafarge Discover Ductal® Owner
Lafarge Ductal® A new dimension of concrete
Lafarge Ductal® Aesthetic Qualities
Lafarge Ductal® Concrete
Lafarge Ductal® Making headlines – Photos
Lafarge Ductal® Making Headlines
Lafarge Ductal® New Applications
Lafarge Ductal® Newsletter 2005 ANGnum2
Lafarge Ductal® Precaster
Lafarge Ductal® Sustainable Development
Lafarge Ductal® Use
Lafarge NA Ductal® projects
Lafarge NA Project list
Lafarge Research Hypergreen
z Ductal® Projects – misc images 1
z Ductal® Projects – misc images 2
z Ductal® Projects – additional information

Lafarge, Bouygues & Rhodia & VSL

Bouygues – SefiFrance
Bouygues & Rhodia
Lafarge 03222006-press_themabook-Brochure_Chair_sustainable-uk
Lafarge 03222006-press_themabook-PressKit_Chair_sustainable-uk
Lafarge 06202005-pub_sus_dev-Lafarge_and_wwf_partnership-uk

Lafarge 06212006-press_sus_dev-Lafarge_Award_Renew_Energy__uk
Lafarge 06222006-press_group_finance-Excellence_2008_analyst_pres-uk
Lafarge 22032006-press_sus-academic_chair-uk
Lafarge – 05312006-press-arts_et_metiers_exhibition-uk
Lafarge – Batimat 09162004-press2003_110303-uk
Lafarge – Batimat 09152004-press_2001_110201-uk
Lafarge – CNRS 09162004-press_CNRS_012202-uk
Lafarge – Hypergreen 03092006-press_sus_products-MIPIM-uk
Lafarge – Lafargeenviroev
Lafarge – Thias Bus Center Ductal® 03122007-press-MIPIM_mar07-uk
Lafarge – WETC 09162004-press_products-R&D_100903-uk
Lafarge Annual Report 2004
Lafarge ANON CementAn2004
Lafarge Group web 2006
Lafarge Joppa Roofs Nova Award NomBook2003
Lafarge Lafont Interview 2006
Lafarge Overview web 2006
Lafarge Sales web 2006
Lafarge Technology Center
Lafarge, Bouygues & Rhodia Co Symbols
Lafarge Perry ecosmart
Perry PressRelease2003 Shawnessy LRT Station
Perry PressRelease Detroit Columns
Rhodia_dans_le_monde
VSL Int website 2007

Ducon® http://www.excendinc.com
Ducon® rev
Excend-DUCON®SecuriyProducts2007

ERDC – VHSC, Cor-Tuf
WES Treat Island

+Fondu Fyre – Anon, Wikipedia, 2010

f-u-r web2007 http://f-u-r.de/

G crete web2007 www.gtecz.com

Holcim www.holcim.com www.hocim.de
Holcim web
HolcimDeutschland_Sulfo_2006

IntExtFab IslandInt web2007 www.islandcompanies.com

Max Bogl
Max Bogl Company Profile
MaxB UHPC

Schillaci architecture – uhpc web2007
http://architettura.supereva.com/architetture/20060715/index.htm

Smartec RocTest Gp web 2007

Taiheiyo Cement Corp
Taiheiyo Cement annual report 2005
Taiheiyo Cement Bldg Mat Website
Taiheiyo Cement NL July 30 2007

+Takenaka – APC http://www.takenaka.co.jp
+Architectural technology certification received from third-party organization for the "APC® concrete," 2009
+The world's first practical use of 200 newtons per square millimeter-strong advanced performance concrete, 2008
+Technology established for high fire-resistant and high-strength concrete able to withstand up to 200 newtons per square millimeter, 2006
+Construction of a 56-story reinforced concrete condominium, the tallest in Japan, 2002
+Preparing for an era of 50-floor-class superhigh-rise RC structures, 2002
+New superhigh-strength concrete with advanced fire resistance that can expand floor space and reduce the costs and construction time of 50-story-class RC condominium high-rises, 2000

Section 2: UHPC References

The following references are from engineering and scientific journal, conference proceedings, magazine articles, books, and other publications and presentations available as open source information on UHPC materials:

— A —

+Aarup, B., 2000. Fibre reinforced high performance concrete for precast applications. In: Proceedings of a Conference, 2000, Finland, 6 pgs. www.crc-tech.com

+Aarup, B., Jensen, L.R., Ellegaard, P., 2005. Slender CRC columns. Nordic Concrete Research 34(2), pp. 80-97. www.crc-tech.com

+Aarup, B., 2008. CRC – Structural applications of ultra high performance fibre reinforced concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 831-837. (in book pdf)

+Aarup, B., 2009. CRC - Precast applications of fibre reinforced ultra high performance concrete. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.1.1, 11 pgs.

+Aarup, B., xxxx. CRC – A special fibre reinforced high performance concrete. In: Proceedings of a Symposium, xxxx, Chicago, IL, USA, 6 pgs. www.crc-tech.com

+Aarup, B., Karlsen, J., Lindström, G., xxxx. Fiber reinforced high performance concrete for in-situ cast joints. In: Proceedings of a Conference, xxxx, Orlando, FL, USA, 9 pgs. www.crc-tech.com

Abdel-Sayed, F.K., Soghair, H.M., El-Wafa, A.A., Yousry, A.M., 2002. Safe limits against lateral instability of RC slender beams cast of normal, high and ultra high performance concrete. In: Proceedings of the Conference on Innovations and Developments in Concrete Materials and Construction, 9-11 September 2002, University of Dundee, Scotland, UK, Eds. R.K. Dhir, P.C. Hewlett, L.J. Csetenyi (London: Thomas Telford, 2002), pp. 805-818.

-Acker, P., 1999. Ultra-high performance concretes – Properties and applications. New concrete products – Lafarge Group, Paris.

Acker, P., 2004. Why does ultrahigh-performance concrete (UHPC) exhibit such low shrinkage and such low creep? In: Autogenous Deformation of Concrete, Eds. O.M. Jensen, D.P. Benz, P. Lura (Farmington Hills, MI: American Concrete Institute, 2004) ACI SP-220-10, pp. 141-154.

Acker, P., Behloul, M., 2004. Ductal® technology: A large spectrum of properties, a wide range of applications. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 11-23.

+Acker, P., 2006. Ultrahigh-performance concrete: Material engineering by nanoindentation testing and nanomechanical analysis. In: Proceedings of the Second International Symposium on Nanotechnology in Construction (NICOM 2), Eds. Y. De Migual, A Porro, P.J.M. Bartos, (Rilem), pp. 257-267.

+Acker, P., Behloul, M., 2008. Ductal®: An example of how durable concrete can be! In: Proceedings of the International Conference on Microstructure Related Durability of Cementitious Composites, pp. 1307-1318.

+Adeeb, S.M., Nowodworski, H., Rosiak, K., Perry, V.H., Kroman, J., Tadros, G., Brown, T.G., Shrive, N.G., 2004. Modelling of the world's first Ductal architectural shell structure. In: Proceedings of the RILEM International Symposium on Concrete Science and Engineering: A tribute to Arnon Bentur, March 2004, Chicago, IL, 12 pgs.

Adeeb, S.M., Scholefield, B.W.J., Brown, T.G., Shrive, N.G., Kroman, J., Perry, V.H., Tadros, G., 2005. Modelling, testing, and construction of the first Ductal® canopy in the world. Canadian Journal of Civil Engineering 32(6), pp. 1152-1165.

Adeline, R., Behloul, M., 1996. High ductile beams without passive reinforcement (Poutres a grande ductilite sans armatures passives). In: Proceedings of the Fourth International Symposium on Utilization of High Strength/High-Performance Concrete, 29-31 May 1996, Paris, France, Eds. F. de Larrard, R. Lacroix, pp. 1383-1390.

+Adeline, R., Behloul, M., Bernier, G., 1996. Reactive powder concrete pretensioned beams. In: Proceedings of the FIP Symposium on Post-tensioned Concrete Structures, Concrete Society Publication CS112/113, pp. 592-606.

-Adeline, R., Cheyrezy, M., 1998. La passerelle de Sherbrooke: premier ouvrage d'art in BPR/The Sherbrooke Footbridge: the first RPC structure. La Technique Francaise du Beton Precontraint, AFPC-AFREM, XIII congres de la FIP, Amsterdam, pp. 343-348.

+Adeline, R., Lachemi, M., Blais, P., 1998. Design and behaviour of the Sherbrooke Footbridge. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 89-97.

Adolphs, J., Schreiber, A., 2004. Microstructural characterisation of ultra-high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 265-271.

AFGC, 2002. Durability of UHPFRC, Part 3 Interim recommendations. AFGC-Groupe de travil BFUP, pp. 73-98. (in French and English)

+AFGC - Setra, 2002. Bétons fibrés à ultra-hautes performances, Recommandations provisoires, (Ultra high performance fibre-reinforced concretes, Interim Recommendations). AFGC (Association Française de Génie Civil) Groupe de travail BFUP, Bagneux Cedex, France March 1999 - January 2002, Setra - Service d'études techniques des routes et autoroutes, 152 pgs. (in French and English)

Ahlborn, T.M., Steinberg, E.P., Hartmann, J.L., Graybeal, B.A., Potter, J.L., Volygi, J., 2003. Ultra-high performance concrete – Study tour 2002. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 15 pgs.

+Ahlborn, T.M., Misson, D.L., Peuse, E.J., Gilbertson, C.G., 2008. Durability and strength characterization of ultra-high performance concrete under variable curing regimes. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 197-204. (in book pdf)

+Ahlborn, T.M., Peuse, E.J., Misson, D.L., 2008. Ultra-high performance concrete for Michigan Bridges – Material Performance - Phase I. Center for Structural Durability, Michigan Technological University, Michigan Department of Transportation, CSD-2008-11 Report, MDOT RC-1525, 190 pgs.

+Aïtcin, P.-C., Bédard, C., Plumat, M., Haddad, G., 1985. Very high strength cement for very high strength concrete. In: Proceedings of the Symposium of the Material Research Society 42, pp. 201-210.Aïtcin, P.-C., Neville, A., 1993. High-performance concrete demystified. Concrete International: Design and Construction 15(1), pp. 21-26. (Aitcin, Bedard)

-Aitcin, P.C., 1992. How to make high performance concrete. High Performance Concrete Publication of Concrete Canada, pp. 27-40.

Aïtcin, P.-C., Neville, A., 1993. High-performance concrete demystified. Concrete International: Design and construction 15(1), pp. 21-26. (Aitcin)

Aitcin, P.-C., Richard, P., 1996. The pedestrian/bikeway bridge of Sherbrooke. In: Proceedings of the Fourth International Symposium on Utilization of High Strength/High-Performance Concrete, 29-31 May 1996, Paris, France, Eds. F. de Larrard, R. Lacroix, pp. 1399-1406. (Aïtcin)

+Aïtcin, P.-C., Lachemi, M., Adeline, R., Richard, P., 1998. The Sherbrooke reactive powder concrete footbridge. Structural Engineering International 8(2), pp. 140-144. (Aitcin)

Aïtcin, P.-C., 2000. Cements of yesterday and today - Concrete of tomorrow. Cement and Concrete Research 30, pp. 1349-1359. (Aitcin)

Aïtcin, P.-C., Delagrave, Y., Beck, R., 2000. A 100-m high prefabricated concrete pole: Why not? In: Proceedings of the IEEE International Conference on Transmission and Distribution Construction and Live Line Maintenance (ESMO 2000), 8-12 October 2000, Montreal, Quebec, Canada, 13C-TPC-6, pp. 365-374. (Aitcin)

-Akhnoukh, A.K., Xie, H., 2010. Welded wire reinforcement versus random steel fibers in precast/prestressed ultra-high performance concrete I-girders. Construction and Building Materials 24(11), pp. 2200-2207.

-Akiko, S., Maruta, M., 2004. Seismic performance of high-rise RC frame structure using ultra high strength concrete. In: Proceedings of the thirteenth World Conference on Earthquake Engineering, 1-6 August 2004, Vancouver, BC, Canada.

+Alaee, F.J., Benson, S.D.P., Karihaloo, B.L., 2002. High-performance fibre-reinforced cementitious composites for retrofitting. International Journal of Materials and Product Technology 17(1/2), pp. 17-31.

+Alaee, F.J., Karihaloo, B.L., 2003. Fracture model for flexural failure of beams retrofitted with CARDIFRC. ASCE Journal of Engineering Mechanics 129(9), pp. 1028-1038.

+Alaee, F.J., Karihaloo, B.L., 2003. Retrofitting of reinforced concrete beams with CARDIFRC. ASCE Journal of Composites for Construction 7(3), pp. 174-186.

+Alfani, R., Colombet, P., D'Amore, A., Rizzo, N., Nicolais, L., 1999. Effect of temperature on thermo-mechanical properties of macro-defect-free cement-polymer composite. Journal of Materials Science 34, pp. 5683-5687.

+Alford, N. McN., Birchall, J.D., 1985. Fibre toughening of MDF cement. Journal of Materials Science 20, pp. 37-45.

+Alford, N. McN., Birchall, J.D., 1985. The properties and potential applications of macro-defect-free cement. In: Proceedings of the Materials Research Society Symposium on Very High Strength Cement-based Materials, Ed. J.F. Young, 42, pp. 265-276.

+Almansour, H., Lounis, Z., 2007. Innovative precast bridge superstructure using ultra high performance concrete girders. In: Proceedings of the PCI National Bridge Conference, 22-24 October 2007, Phoenix, Arizona NRCC-49685, pp. 1-21.

+Almansour, H., Lounis, Z., 2008. Structural performance of precast prestressed bridge girders built with ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 823-830. (in book pdf)

+Almansour, H., Lounis, Z., 2009. Design of prestressed UHPFRC girder bridges according to Canadian Highway Bridge Design Code. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.3.3, 17 pgs.

-Almansour, H., Lounis, Z., 2010. Innovative design approach of precast-prestressed girder bridges using ultra high performance concrete. Canadian Journal of Civil Engineering 37(4), pp. 511-521.

Alonso, C., Andrade, C., Menendez, E., Gayo, E., 2005. Microstructural changes in high and ultra high strength concrete exposed to high temperature environments. In: Proceedings of the Fourth International Conference on Quality of Concrete Structures and Recent Advances in Concrete Materials and Testing, 6-7 September 2005, Olinda, Pernambuco, Brazil, Eds. P. Helene, E.P. Figueiredo, T.C. Holland, R. Bittencourt, ACI SP-229-19, pp. 289-302.

-Ammouche, A., Martinet, G., 2001. Durability of Ductal® and ancient BPR. Rapport d'etude no. 98.3894.003.01.A, LERM.

-An, M., Zhang, M., 2007. Experimental research of bond capability between deformed bars and reactive powder concrete. Zhongguo Tiedao Kexue/China Railway Science 28(2), pp. 50-54. (in Chinese)

-An, M., Song, Z., Li, Y., Zhang, Y., 2009. Study on mechanical performance of reactive powder concrete with different steel fiber contents under uniaxial compression. Zhongguo Tiedao Kexue/China Railway Science 30(5), pp. 34-38. (in Chinese)

-An, M., Yu, Z., Sun, M., Zheng, S., Liang, L., 2010. Fatigue properties of RPC under cyclic loads of single-stage and multi-level amplitude. Journal Wuhan University of Technology, Materials Science Edition 25(1), pp. 167-173.

-An, M.-Z., Zhang, L.-J., 2007. Study on the size effect of RPC flexural strength. Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology 36(1), pp. 38-41. (in Chinese)

-An, M.-Z., Zhang, M., Ji, W.-Y., 2007. The research of bond capability between round steel bars and reactive powder concrete. Tiedao Xuebao/Journal of the China Railway Society 29(1), pp. 90-94. (in Chinese)

+An, M.-Z., Zhang, L.-J., Yi, Q.-X., 2008. Size effect on compressive strength of reactive powder concrete. Journal of China University of Mining and Technology 18(2), pp. 279-282.

-An, M.-Z., Yang, Z.-H., Yu, Z.-R., Zhai, Y.-F., Gao, K., 2010. Experimental study on the tensile performance of reactive powder concrete. Tiedao Xuebao/Journal of the China Railway Society 32(1), pp. 54-58. (in Chinese)

+Anders, S., Lohaus, L., 2008. Ultra-high performance concrete in grouted connections – Potential and design aspects. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 251-258. (in book pdf)

+Anderson, W.F., Watson, A.J., Kaminski, A.E., 1992. The resistance of SIFCON to high velocity impact. In: Proceedings of Structures under Shock and Impact II, SUSI/92, 16-18 June, Portsmouth, UK, Ed. P.S. Bulson, (Southampton: Computational Mechanics Publications, 1992), pp. 89-98.

-Andrade, C., Frias, M., Aarup, B., 1996. Durability of CRC: An ultra high-strength concrete. Hormigon y Acero, 685-3-5, pp. 113-122. (in Spanish)

+Andrade, M.C., Frías, M., Aarup, B., 1996. Durability of ultra-high strength concrete: Compact reinforced composite (CRC) (Durabillite du beton de tres haute resistance: Beton arme composite de haute densite (CRC)). In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-Performance Concrete (BHP96), May 1996, Paris, France 2, pp. 529-534. (Frias)

Anon, 1994. Concrete attains 29,000 psi. Engineering News Record (July 11, 1994), pg. 13.

-Anon, 1995. Rapport CSIC 16.923-A Contr. AB46-95. Tests on chemical attack of BPR.

-Anon, 1995. Les betons de poudres reactives (BPR) a ultra haute resistance. Annales de l'ITBTP 532 (Mars-Avril), pp. 82-143.

-Anon, 1997. A footbridge with no conventional reinforcing steel: the first application of reactive powder concrete (RPC) in a pt concrete structure 2, pp. 6.

-Anon, 1999. Lafarge at the cutting edge. Concrete 33(7), p. 23.

+Anon, 2000. EN 197-1:2000. The 27 products in the family of common cements. 1 pg.

-Anon, 2000. In-house report for the Swedish Military. Aalborg Portland, 44 Rordalsvej, Dk-9100.

Anon, 2001. New Construction material is developed. Composites Technology (March/April 2001), pg. 11.

Anon, 2002. A first for Ductal, a French ductile concrete. Quality Concrete (July/August), pp. 123-124.

Anon, 2002. Advances in cement based materials. Australian Concrete Construction 15(3), pp. 18-20.

-Anon, 2002. Ceracem® is a cold-formable ceramic cement. Quality Concrete 8(5).

Anon, 2002. Ductal® footbridge in Seoul - Slender arch, high tech leap. VSL News Intrafor Magazine (1), pp. 24-28.

Anon, 2002. Pioneers of the Ductal® grammar (Interview with Rudy Ricciotti). VSL News Intrafor Magazine (1), pg. 26.

Anon, 2002. Super concrete-competition for FRP. Plastics in Building Construction (January), pg. 5.

Anon, 2003. 48th concrete Congress: Focus on technology. BFT 69(12), pp. 77-78. (in German and English)

Anon, 2003. Ductal® structures Footbridges: Why not thin and blue? VSL News Intrafor Magazine (2), pp. 20-21.

-Anon, 2004. ARCONIS Spezial - Reactive Powder Concrete – Reaktionspulverbeton - Ultrahochfester beton – Forschungsergebnisse, Entwicklungen, Projekte, Band 2 (Fraunhofer IBR Verlag). ISBN 3-8167-6265-4

Anon, 2004. Ductal material used for rail station canopy. Composites Technology (February), pg. 11.

Anon, 2005. Bridges of the future built in Ductal®. Crescendo, 1 pg.

Anon, 2005. Design and construction of New Zealand's first reactive powder concrete bridge. Concrete (CCANZ- Cement and Concrete Association of New Zealand) 49(4), pg. 4.

-Anon, 2005. Fatigue test with Densit "D4" UHPC. Aalbor Research Laboratory, Aalborg University.

Anon, 2005. High-performance concretes – A state–of-art report (1989-1994). TFHRC ConMat'05, Section 7, Recent activities of organized programs on HPC, 12 pgs.

Anon, 2005. New concrete handles a heavy, heavy load. Composites eNews (June), pg. 6.

Anon, 2005. Prefabricated bridge elements and systems in Japan and Europe. Federal Highway Administration, US Department of Transportation Index, Contents and Chapter 2, 46 pgs. http://international.fhwa.dot.gov/prefab_bridges/

Anon, 2006. Building a 500-year bridge the new-fashioned way. Michigan Tech Engineering the Future 2(2), pg. 6.

Anon, 2006. Iowa bridge marks technology milestone. Public Works (June), pg. 13.

Anon, 2006. Jumping trout – Glenmore Elbow Interchange (GE5), Calgary, Alberta. CPCI - Canadian Precast/Prestressed Concrete Institute, 8 pgs. http://www.cpci.ca/?sc=potm&pn=monthly112006

Anon, 2006. New bridge a first in precast concrete design. The Construction Specifier (August), pg. 12.

Anon, 2007. Presenting bridge in Kassel with stuck together ultrahigh-firm concrete plates. Website: http://www.baulinks.de/en/2007/1165.php4 , 4 pgs.

+Anon, 2008. Scientists look to new bomb proof concrete. Independent Weekly (July 8), 1 pg. http://www.independentweekly.com.au

Anon, 2009. 50,000 to 60,000 PSI concrete in Tehran, Iran. Concrete Technical Forum, (January 11), 1 pg. http://concrete-talk.com

+Anon, 2009. Bomb-proof concrete developed. HSDailyWire (January 28), 2 pg. http://www.hsdailywire.com

+Anon, 2009. Engineers test blast-resistant concrete. University of Liverpool, UK, press release (January 21), 3 pgs. http://www.liv.ac.uk/news/press_releases

+Anon, 2009. Scientists test blast-resistant concrete. University of Liverpool, UK, press release (January 21), 3 pgs. http://www.liv.ac.uk/news/press_releases/2009/01/blast_resistant_concrete.htm

+Anon, 2009. UHPC Flyer - Feasibility analysis of ultra high performance concrete for prestressed concrete bridge application, POC: B.D. Weldon, B. Simons, K. Daniell. New Mexico Department of Transportation – Research Bureau Project NM09MSC-01, 2 pgs.

Anon, xxxx. High-performance concrete. Chapter 17, ctu.edu.vn web2007, 16 pgs.

Anon-ACI, 2007. ACI Student Competitions 2003-2006, 18 pgs.

-Anon-DafStb UHPC, 2003. State-of-the-art Report on Ultra-High Performance Concrete - Concrete Technology and Design. Deutscher Ausschuss fur Stahlbeton/German Association for Reinforced Concrete, Berlin, Draft 3:2003.

-Anon-DafStb, 2005. Deutscher Ausschuss fur Stahlbeton (DafStb): Sachstandsbericht Ultrahochfester Beton – Betontechnik und Bemessung, Entwurf: Stand 12.03.2005.

-Anon-DafStb: Sachstandsbericht Ultrahochfester Beton, May 2007. (not published)

-Anon-DafStb, 2008. Ultra high-strength concrete – Progress report. German Committee for Reinforced Concrete. ISBN 978-3-410-65045-4

+Anon - DHS, 2011. Ultra High Performance Concrete Workshop, 11-12 January 2011, Columbia University, New York, NY. Sponsored by Department of Homeland Security, Science and Technology Directorate. Presentations:

- Kennett, M., High performance - Integrated design program.
- Brownell, B., Concrete transformations: From mongrel material to smart surface.
- Perry, V., Keynote address: The past, present and future of UHPC.
- Naaman, A.E., In search of ultra high performance fiber reinforced concrete (UHP-FRC).
- Shah, S.P., UHPC through nanotechnology.
- Garboczi, E., NIST concrete research: Measurement science, computer models, and standards.
- Ulm. F.J., UHPC bottom up: From atoms to structures.
- Graybeal, B.A., UHPC in the U.S. highway transportation infrastructure.
- Volgyi, J.F.J., AASHTO specifications for UHPC - Current status and future needs.
- Sritharan, S., Design of demonstration bridges using UHPC.
- Ahlborn, T., Steinberg, E., Challenges to developing and implementing a UHPC design guide for the U.S.
- Seibert, P., Technical challenges when commercializing UHPC - Demonstration projects.
- Novak. L., Lane, S., Application of UHPC for buildings and bridges.
- Rossi, P., Progress in Europe concerning design recommendations for UHCP use.
- Fischman, G., Ettouney, M., DHS advanced materials database.
- Rebentrost, M., UHPC applications and development for infrastructure protection.
- Roursgaard, B., UHPC application opportunities in infrastructure.

- Schmidt, M., Sustainable building with UHPC: A comprehensive research and application program in Germany.
- Aitcin, P.-C., Construction and long term behavior (12 years) of the Pasarelle de Sherbrooke.
- Tue, N.V., Modular construction made of UHPC: Experiences and lessons learned.
- Juntunen, D., Moving research to production in state highway programs.
- Almansour, H., Renewal of aging highway bridges using innovative precast-prestressed UHPC girder bridges.
- Hallissy, J., Transforming protection of buildings and infrastructure with innovative UHPBC solutions.
- Royce, M., Field cast ultra-high performance concrete joints in NYSDOT bridges.
- Alampalli, S., Inspection, maintenance and bridge management issues for new materials.
- Conley, C., Meyer, F., Research needed to facilitate expanded utilization of UHPC.
- Crane, C.K., Field evaluations of UHPC.

-Anon-Federal Highway Administration, 2002. UHPC testing: Shear. (Handout made available at FHWA shear test)

-Anon-Lafarge, 2001. Case study: Cost comparison for the construction of a bridge in Ductal. Internal document.

-Anon-Lafarge, 2001. Suggested guidelines for the selection of a demonstration Ductal bridge. Internal document.

-Anon-LCPC, 2004. CESAR-LCPC Manual of Examples: Modeling of Early-Age UHPC. Laboratoire Central des Ponts et Chaussees, Paris, France.

+Anon-USACE-ERDC-GSL, 2007. Reactive powder concrete (RPC) in a marine environment. Natural Weathering Exposure Station - Treat Island. US Army Corps of Engineers, Engineer Research and Development Center, Geotechnical and Structures Laboratory, 2 pgs.

+Anon, XXXX. Ultra high-strength French import moves forward. ENR, 1 pg.

-Arciero, R.A., 2003. Arcons Spezial 2. Ultrahochfester Beton. (Fraunhofer IRB Stuttgart), 150 pgs. (in German) ISBN-13: 978-3816762652

+Arisoy, B., Wu, H.-C., 2008. Material characteristics of high performance lightweight concrete reinforced with PVA. Construction and Building Materials 22, pp. 635-645.

Aronoff, J., Katz, A., Frostig, Y., 2004. The behavior of very high strength concrete structures with CFRP reinforcing bars. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 547-558.

+Attar, A., Bendada, A., Di Raddo, R., Ahern, M., 1999. Evaluation of a metallic reinforced epoxy mold for blow molding. In: Proceedings of the Twenty-seventh Conference on Structural Plastic 99, pp. 151-158.

Attar, A., Bendada, A., Connolly, R., Dénommé, Y., Dallaire, É., Aïtcin, P.C., xxxx. Evaluation of composite molds for injection-blow molding using thermal imaging. Web2007, 8 pgs. (Denomme, Aitcin)

Ay, L., 2004. Curing tests on ultra high strength plain and steel fibrous cement based composites. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 695-701.

-Aydin, S., Yazici, H., Yardimci, M.Y., Yigiter, H., 2010. Effect of aggregate type on mechanical properties of reactive powder concrete. ACI Materials Journal 107(5), pp. 441-449.

— B —

-Bai, H., Gao, R., 2003. Application of reactive powder concrete (RPC) in engineering structures. Building Science 19(4) (August), p.~54.

+Ba, H.-J., Guo, A.-L., Yan, Y.-Z., 2009. Mix proportion optimization and shrinking of new developed reactive powder concrete. Key Engineering Materials 405-406, pp. 37-43.

-Bache, H.H., Lystbaek, M., Mikkelsen, A., 1968. Komprinering af cement og finmalet kvarts ved kombineret tryk og vibrering. Orienterend undersogelse. B.F.l. Internal Report no. 189, Betonforsknings-laboratoriet, Karlstrup, 34 pgs.

-Bache, H.H., 1981. Densified cement/ultra fine particle based materials. In: Proceedings of the Second International Conference on Superplasticizers in Concrete, 10-12 June 1981, Ottawa, Ontario, Canada, CBL rapport nr. 40, Aalborg Portland, pp. 1-35 (185-213).

-Bache, H.H., 1987. Compact Reinforced Concrete Composite, Basic Principles. Aalborg Portland, Aalborg, Denmark, Cement-og Betonlaboratoriet, CBL Report No. 41, 87 pgs.

Bache, H.H., 1987. Introduction to compact reinforced composite. Nordic Concrete Research (6 December), pp. 19-33.

+Bache, H.H., 1989. Fracture mechanics in integrated design of new, ultra-strong materials and structures. In: RILEM Report Fracture Mechanics of Concrete Structures – From Theory to Applications, Ed. L. Elfgren, (London: Chapman and Hall, 1989) 18, pp. 382-398.

+Bache, H.H., 1991. Principles of similitude in design of reinforced brittle matrix composites. In: Proceedings of the International Workshop on High Performance Fiber Reinforced Cement Composites, 24-26 June 1991, Mainz, Germany CBL Report No. 23, pp. 40-56.

-Bache, H.H., 1992. Ny beton – ny teknologi. Aalborg Portland, Aalborg Denemarken. (in Danish, English translation available)

+Bache, H.H., 1994. Design for ductility. In: Proceedings of the International RILEM Workshop on Concrete Technology: New Trends, Industrial Applications 26, pp. 113-125.

-Bache, H.H., XXXX. High strength concrete development through 25 years. CBL report no. 17. Cement- and Concrete Lab. Aalborg Portland.

-Bache, H.H., XXXX. Fracture mechanics in integrated design of new, ultra-strong materials and structures. CBL reprint no. 21. Cement- and Concrete Lab. Aalborg Portland.

-Bache, H.H., XXXX. Concrete and concrete technology in a broad perspective. CBL reprint no. 26.

-Bache, H.H., XXXX. Compact reinforced composite. CBL report no. 39. Cement- and Concrete lab. Aalborg Portland.

Bagheri, A.R., Alibabaie, M., Zanghane, H., 2006. The effect of confinement by steel tube on ductility of reactive powder concrete. In: Proceedings of the Eighth US National Conference on Earthquake Engineering, 18-22 April 2006, San Francisco, CA, USA (Earthquake Engineering Research Institute, Oakland, CA), 9 pgs.

+Bagheri, A.R., Zanghane, H., 2007. Analysis of impact resistance of reactive powder concrete (RPC) using ultrasonic waves. In: Proceedings of the CSCE 2007 Annual General Meeting and Conference of the Canadian Society for Civil Engineering, 6-9 June 2007, Yellowknife, Northwest Territories, Canada 1, pp. 494-502.

+Bagheri, A.R., Zanghane, H., 2007. Energy absorption of reactive powder concrete (RPC) in static and impact loadings. In: Proceedings of the CSCE 2007 Annual General Meeting and Conference of the Canadian Society for Civil Engineering, 6-9 June 2007, Yellowknife, Northwest Territories, Canada 1, pp. 503-510.

+Balaguru, P., Kendzulak, J., 1987. Mechanical properties of slurry infiltrated fiber concrete (SIFCON). In: Proceedings of the Symposium on Fiber Reinforced Concrete: Properties and Applications, Eds. S.P. Shah, G.B. Batson (Detroit, MI, USA: American Concrete Institute, 1987) ACI SP-105-14, pp. 247-268.

-Balazs, P., Hallgren, M., 1997. Brottmekanish provening av Ballistocrete-, Densit- och Finpartikelbetongbalkar med impulslast och statisk last (Fracture mechanics tests on beams of ballistocrete, densit and reactive powder concrete, with impulse load and static load). Rapport nr. FOA-R--97-00640-311--SE, Forsvarets Forskningsanstalt, Avd. For Vapen och Skydd, Tumba. (in Swedish with English summary)

+Bamonte, P., Gambarova, P.G., Meda, A., 2008. Today's concretes exposed to fire - Test results and sectional analysis. Structural Concrete 9(1), pp. 19-29.

Banta, T.E., 2005. Horizontal shear transfer between ultra high performance concrete and lightweight concrete. MS Thesis - Virginia Polytechnic Institute and State University, 138 pgs.

Bao, X.H., Guo, H., 2004. Application of wet jet spraying of steel fiber concrete in air raid shelter project. Prospecting Works (Rock Excavation Works) 10, pp. 61-62. (in Chinese) (?UHPC/RPC, but of interest)

+Barnett, S.J., Millard, S.G., Soutsos, M.N., Schleyer, G., Tyas, A., Le, T.T., 2007. Ultra high performance fibre reinforced concrete for explosion resistant structures. In: Proceedings of Concrete Platform International Conference, Belfast, Northern Ireland, 9 pgs.

+Barnett, S., 2008. Development of advanced concrete materials for anti-terrorism applications. Structural Engineer 86(19), pp. 28-29.

+Barnett, S.J., Lataste, J.-F., Parry, T., Millard, S.G., Soutsos, M.N., 2009. Assessment of fibre orientation in ultra high performance fibre reinforced concrete and its effect on flexural strength. Materials and Structures, 43(7), pp. 1009-1023. (?2010)

-Barnett, S.J., Millard, S.G., Schleyer, G.K., Tyas, A., 2010. Briefing: Blast tests of fibre-reinforced concrete panels. Proceedings of Institution of Civil Engineers: Construction Materials 163(3), pp.127-129.

+Batoz, J.-F., Rivallain, M., 2009. Ultrahigh-performance concrete contribution to sustainable development. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.2.3, 10 pgs. (in French)

+Batoz, J.-F., Behloul, M., 2009. UHPFRC development on the last two decades: An overview. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 1.3, 13 pgs.

-Bayard, O., 2003. Approche multiechelles du comportement mecanique des betons a ultrahautes performances renforces par des fibres courtes. Ph.D. dissertation. Ecole Normal Superieure de Cachan, Cachan, France. (in French)

Bayard, O., Plé, O., 2003. Fracture mechanics of reactive powder concrete: Material modelling and experimental investigations. Engineering Fracture Mechanics 70(7-8), pp. 839-851. (Ple)

+Bayasi, Z., Zeng, J., 1997. Flexural behavior of slurry infiltrated mat concrete (SIMCON). Journal of Materials in Civil Engineering 9(4), pp. 194-199.

+BCA, 2000. New eurocements – Changing from British to European cement standards, 4 pgs.

+BCA, 2005. Modern cements and how to specify them, 29 pgs.

+Beaudoin, J.J., Feldman, R.F., 1975. A study of mechanical properties of autoclaved calcium silicate systems. Cement and Concrete Research 5(2), pp. 103-118.

Beaudoin, J.J., Feldman, R.F., Tumidajski, P.J., 1994. Pore structure of hardened portland cement pastes and its influence on properties. Advanced Cement Based Materials 1(5), pp. 224-236.

+Behloul, M., 1995. Definition d'une loi de comportement du BPR. Les Annales de l'Institut technique du batiment et des travaux publics 532(320), pp. 122-127. (in French)

-Behloul, M., 1996. Les micro-betons renforces de fibres. De l'eprouvette aux structures. XIVemes Journees de l'AUGC, Clermont-Ferrand. Prix Jeunes Chercheurs.

-Behloul, M. 1996. Analyse et modelisation du comportement d'un materiau a matrice cementaire fibree a ultra-hautes performances, (B.P.R. – Betons). Du materiau a la structure. PHD Thesis, ENS Cachan (Ecole Normale Superieure de Cachan), 13 decembre, 1996, 182 pgs.

Behloul, M., Adeline, R., Bernier, G., 1996. Non linear computation of fiber reinforced micro-concrete structures. In: Proceedings of the CCMS Symposium held in conjunction with Structures Congress XIV – Worldwide Advances in Structural Concrete and Masonry, 15-18 April 1996, Chicago, IL, USA (New York: American Society of Civil Engineers, 1996), pp. 518-529.

-Behloul, M., Bernier, G., Cheyrezy, M., 1996. Tensile behaviour of reactive powder concrete (RPC)/Comportement en traction des betons de poudres reactives (BPR). In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-Performance Concrete, BHP'96, Paris. Presses de l"ENPC 3, pp. 1375-1381.

-Behloul, M., et al, 1998. The Sherbrooke footbridge: The first reactive powder concrete structure. Structural Engineering International (February), pp. 140-144.

Behloul, M., Adeline, R., Cheyrezy, M., Aitcin, P.-C., Blais, P., Couture, M., 1999. Quebec: Un ouvrage d'art en béton de poudres réactives – La passerelle su la rivière Magog à Sherbrooke. Travaux (751), 5 pgs. (in French) (Aïtcin)

-Behloul, M., 2000. Design rules for Ductal pre-stressed beam. Technical Information from Bouygues (February), pp. 1-15.

Behloul, M., Chanvillard, G., Casanova, P., Orange, G., 2002. Fire resistance of Ductal® ultra high performance concrete. In: Proceedings of the First FIB Congress, Osaka, Japan, Session 7, JCI, pp. 421-430.

-Behloul, M., Cheyrezy, M., 2002. Ductal reference projects. Presentation at Bouygues Headquarters – Challenger, St Quentin en Yveslines, France, September 12, 2002.

-Behloul, M., Cheyrezy, M., 2002. Seonyu Foot Bridge: Construction. Presentation at Bouygues Headquarters – Challenger, St Quentin en Yveslines, France, September 12, 2002.

-Behloul, M., Cheyrezy, M., 2002. Shepherds Gully Creek Bridge in Croudace Bay, NSW, Australia. Presentation at Bouygues Headquarters – Challenger, St Quentin en Yveslines, France, September 12, 2002.

+Behloul, M., Lee, K.C., 2002. Innovative footbridge in Seoul – Seonyu Bridge. In: Proceedings of the First fib Congress: Concrete Structures in the 21st Century, 2002, Osaka, pp. 183-192.

Behloul, M., Lee, K.C., 2003. Ductal® Seonyu footbridge. Structural Concrete, Journal of the fib 4(4), pp. 195-201.

+Behloul, M., Ricciotti, R., 2003. Footbridge of Peace – Seoul. In: Proceedings of the International Symposium on the Role of Concrete Bridges in Sustainable Development, Dundee, Scotland, pp. 63-72.

+Behloul, M., Durukal, A., Batoz, J.-F., Chanvillard, G., 2004. Ductal®: Ultra high-performance concrete technology with ductility. In: Proceedings of the Sixth International RILEM Symposium on Fibre Reinforced Concretes (FRC) (BEFIB 2004), 22-24 September 2004, Varenna, Italy, pp. 1281-1290.

-Behloul, M., Gauz, H.R., 2004. Ductal® – High performance fiber reinforced concrete. In: Proceedings of the International Conference on Fibre Reinforced Concretes, High-Performance Concretes and Smart Materials, January 2004, pp. 113-134.

+Behloul, M., Lee, K.C., Etienne, D., 2004. Seonyu Ductal® footbridge. In: Proceedings of the fib Symposium: Concrete Structures: The Challenge of Creativity, 26-28 April 2004, Avignon, France, 6 pgs.

Behloul, M., Chanvillard, G., Pimienta, P., Pineaud, A., Rivillon, P., 2005. Fatigue flexural behavior of pre-cracked specimens of special UHPFRC. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-80 II, pp. 1253-1268.

+Behloul, M., Batoz, J.-F., 2008. Ductal® applications over the last Olympiad. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 855-862. (in book pdf)

+Behloul, M., Birelli, G., Thibaux, T., 2009. Seance introductive - Historique des BFUP et realizations marquantes. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 1.3, 9 pgs. (in French)

-Bekaert, A., Behloul, M., Dugat, J., Adeline, R., Lacombe, H., 2001. Centrale EDF de Cattenom - Du beton de poudres reactives (BPR) pour le nucleaire. Travaux 752, pp. 69-72. (in French)

-Bekaert, N.V., 1997. Design guidelines for Dramix steel fibre reinforced concrete.

-Ben Mekki, O., Toutlemonde, F., 2011. Experimental validation of a 10-m-span composite UHPFRC-carbon fibers-timber bridge concept. Journal of Bridge Engineering 16(1), pp. 148-157.

Bennett, D., 2003. High-strength mix on a spiral of success. Architects Journal 218(8)-Concrete Quarterly, pp. 10-13.

+Bennett, D., 2005. Preface. In: The Art of Precast Concrete – Colour Texture Expression, Ed. D. Bennett (Basel, Switzerland: Birkhauser, 2005), pp. 6-23.

+Bennett, D., 2005. The Art of Precast Concrete – Colour Texture Expression (Basel, Switzerland: Birkhauser, 2005). (book – no pdf)

Bennett, D., XXXX. MDF and DSF – the new ultra high strength concretes. Web, 3 pgs.

-Benson, S.D.P., 2003. CARDIFRC® - Development and Constitutive Behaviour, PHD Thesis, Cardiff University, UK.

+Benson, S.D.P., Karihaloo, B.L., 2003. CARDIFRC® - Manufacture and constitutive behaviour. In: Proceedings of the Fourth International RILEM Workshop on High Performance Fiber Reinforced Cement Compostites (HPFRCC4), Ann Arbor, MI, pp. 65-79.

Bentur, A., 2002. Cementitious material – nine millennia and a new century: Past, present, and future. Journal of Materials in Civil Engineering 14(1), pp. 2-22.

-Bernier, G., Behloul, M., 1996. Effet de l'orientation des fibres sur le comportement mecanique. In: BPR 2 colloque international francophone sur les betons fenforces de fibres metalliques, 4-5 Juillet 1996, Toulouse, pp. 233-240.

-Bernier, G., Behloul, M., 1998. Effet de l'orientation des fibres sur le comportement mecanique des BPR. Revue francaise de Genie Civil 2(1), pp. 113-122. (in French)

-Bernier, G., Belhoul, M., Richard, N., 1998. Comportement mecanique en fatigue des betons de poudre reactive: approche experimentale. In: Troisieme Colloque International Francophone sur Ises Betons Renforces de Fibres Metalliques, Quebec, 11-12 Juin 1998.

+Bernier, G., Behloul, M., Roux, N., 1999. Structural applications using ultra high-strength fiber reinforced concrete. In: Proceedings of the Symposium on Structural Applications of Fiber Reinforced Concrete, Eds. N. Banthia, C. MacDonald, P. Tatnall (Farmington Hills, MI, USA: American Concrete Institute, 1999) ACI SP-182-5, pp. 69-85.

+Bertram, G., Hegger, J., 2010. Design and construction with ultra-high performance concrete. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 704, 8 pgs.

+Bertram, G., Hegger, J., 2010. Pretensioned UHPC beams with and without openings. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 236, 10 pgs

Bickley, J.A., Mitchell, D., 2001. A state-of-the-art review of high performance concrete structures built in Canada: 1990-2000. web2007, 122 pgs.

+Bian, H., Takarli, M., Prince-Agbodjan, W., Molez, L., 2010. Cracking behaviour of ultra-high performance fiber-reinforced concrete: Effects of thermal damage. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 306, 12 pgs.

+Bierwagen, D., Abu-Hawash, A., 2005. Ultra high performance concrete highway bridge. In: Proceedings of the 2005 Mid-Continent Transportation Research Symposium, Ames, Iowa, pp. 1-14.

+Bierwagen, D., Abu-Hawash, A., Moore, B., Keierleber, B., 2009. Ultra-high performance concrete in Iowa. HPC Bridge Views - US DOT - FHWA 57, 3 pgs.

+Bierwagen, D., Moore, B., Keierleber, B., Sritharan, S., Wipf, T., Abu-Hawash, A., 2010. Design of Buchanan County, Iowa, Bridge, using ultra-high performance concrete and PI-girder cross section. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 173, 31 pgs.

Bindiganavile, V., Banthia, N., Aarup, B., 2002. Impact response of ultra-high-strength fiber-reinforced cement composite. ACI Materials Journal 99(6), pp. 543-548.

+Biolzi, L., Cattaneo, S., Guerrini, G.L., 2001. Fracture monitoring of very high performance mortars with ESPI technique. In: Proceedings of the Third International Conference on Concrete under Severe Conditions – Environment and Loading (CONSEC'01), 18-20 June 2001, University of British Columbia, Vancouver, Canada, Eds. N. Banthia, K. Sakai, O.E. Gjørv 1, pp. 1263-1270.

+Birelli, G., Dugat, J., Bekaert, A., 1998. The use of RPC in cross-flow cooling towers. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 59-73.

+Birelli, G., Cadoret, G., Dutalloir, F., Thibaud, T., 1998. A new, very high performance concrete – Initial industrial application. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp.177-201.

-Birelli, G., Chauvel, D., Dugat, J., Adeline, R., Bekaert, A., 1998. Industrialisation du BPR. Utilisation dans les refrigerants a courants croises et premieres regles de calcul/RPC Industrialization. Using in cross flow air cooling towers and first design rules. La technique francaise du Beton, AFPC-AFREM, XIII congres de la FIP, Amsterdam, pp. 203-213.

+Birelli, G., 2009. Historique du développement des BFUP et applications décisives (UHPFRC: Historical perspective and applications). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 1.3, 13 pgs. (in French)

+Bjegovic, D., Skazlic, M., Candrlic, V., 2002. RPC in Croatia. In: Proceedings of the International Conference on Concrete for Extreme Conditions, 9-11 September 2002, Dundee, Scotland, 8 pgs. (Bjegović, Skazlić, Čandrlić)

Blais, P.Y., Couture, M., 1999. Precast, prestressed pedestrian bridge - world's first reactive powder concrete structure. PCI Journal 44(5), pp. 60-71.

-Blokland, G. van, 1997. Widening of bridges with RPC. MSc-Thesis, TU Delft.

Bludau, C., Keuser, M., Kustermann, A., Thienel, C., 2005. Schutzplatten aus hochfestem Beton, Studie E/E520/30066/X5216, Abschlussbericht (Institut für Konstruktiven Ingenieurbau und Institut für Werkstoffe des Bauwesens, Universität der Bundeswehr München), 213 pgs. (in German)

-Bolusset, D., xxxx. Essais de deux poutrelles precontraintes en BPR. Rapport d'etude, contrat no. 327102, donneur d'ordres Bouygues Tp (juillet).

Bonneau, O., Poulin, C., Dugat, J., Richard, P., Aitcin, P.-C., 1996. Reactive powder concretes: From theory to practice. Concrete International 18(4), pp. 47-49. (Aïtcin)

-Bonneau, O., 1997. Etude des effets des superplastifiants en vue d'optimiser le comportement rheologique des betons a ultra hautes performances. These de doctorat E.N.S. Cachan, Universite de Sherbrooke.

Bonneau, O., Lachemi, M., Dallaire, E., Dugat, J., Aitcin, P.-C., 1997. Mechanical properties and durability of two industrial reactive powder concretes. ACI Materials Journal 94(4), pp. 286-290. (Aïtcin)

+Bonneau, O., Vernet, Ch., Moranville, M., 1998. Optimization of the rheological behavior of reactive powder concretes (RPC). In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 99-118.

Bonneau, O., Vernet, C., Moranville, M., Aïtcin, P.-C., 2000. Characterization of the granular packing and percolation threshold of reactive powder concrete. Cement and Concrete Research 30(12), pp. 1861-1867. (Aitcin)

Bonneau, O., Vernet, C., Moranville, M., Aïtcin, P.-C., 2001. Influenza dei superfluidificanti sull'idratazione del reactive powder concrete (Influence of superplasticizers on the hydration of reactive powder concrete). Industria Italiana del Cemento 71(5), pp. 416-421. (in Italian and English) (Aitcin)

+Bonomelli, F., Colombo, M., di Prisco, M., Mazzoleni, L., 2008. Textile cementitious composites at high temperatures. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 339-346. (in book pdf)

Borghoff, M., 2006. Die erste europäische Verbundbrücke mit UHPC in Kassel Herstellung der ultrahochfesten Betonfertigteile (The first European composite bridge made with UHPC in Kassel Production of ultra high strength precast parts). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 72(9), pp. 58-65. (in German and English)

+Bornemann, R., Middendorf, B., Fehling, E., 1999. Herstellung und Eigenschaften von ultra-hochfesten Betonen. Betonbau – Forschung, Entwicklung und Anwendung 142, pp. 97-105. (in German)

-Bornemann, R., Fehling, E., 2000. Ultrahochfester beton – Entwicklung und verhalten. Leipziger Massivbau-Seminar 10, pp. 1-15.

-Bornemann, R., Fehling, E., Schmidt, M., Middendorf, B., 2001. Entwicklung und Verhalten von Ultrahochfestem Beton (UHPC). Beton- und Stahlbentonbau.

-Bornemann, R., Middendorf, B., Schmidt, M., 2001. Microstructure and durability of ultra high performance concrete (UHPC). In: Proceedings of the Eighth Euroseminar on Microscopy Applied to Building Materials, Athens.

+Bornemann, R., Schmidt, M., Fehling, E., Middendorf, B., 2001. Ultra-Hochleistungsbeton UHPC – Herstellung, Eigenschaften und Anwendungsmöglichkeiten. Beton- und Stahlbetonbau 96(7), pp. 458-467. (in German)

Bornemann, R., Schmidt, M., 2002. The role of powders in concrete. In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June, 2002, Leipzig, Eds. G. Konig, F. Dehn, T. Faust (Germany: Verein der Freunde des Bauingenieur- und Wirtschaftsingenie der Universität Leipzig, 2002) 2, pp. 863-872.

Bornemann, R., Schmidt, M., 2002. Ultrahochfester Beton (UHPC) – Herstellung und Anwendung (Ultra high performance concrete (UHPC) – mix design and application). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 68(2), pp. 10-12. (in German and English)

+Bornemann, R., Schmidt, M., Vellmer, C., 2002. Brandverhalten ultra-hochfester Betone/Fire resistance of ultra-high-performance concretes. Beton 52(9), pp. 418-422. (in German)

Bornemann, R., Faber, S., 2004. UHPC with steel- and non-corroding high-strength polymer fibres under static and cyclic loading. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 673-682.

+Bortzmeyer, D., Frouin, L., Montardi, Y., Orange, G., 1995. Microstructure and mechanical properties of macro-defect-free cements. Journal of Materials Science 30, pp. 4138-4144.

Børvik, T., Langseth, M., Hopperstad, O.S., Polanco-Loria, M.A., 2002. Ballistic perforation resistance of high performance concrete slabs with different unconfined compressive strengths. In: Proceedings of the First International Conference on High Performance Structures and Composites, 11-13 March 2002, Seville, Spain (Southampton, U.K: WIT Press, 2002), pp. 273-282. (Borvik)

Børvik, T., Gjørv, O.E., Langseth, M., 2007. Ballistic perforation resistance of high-strength concrete slabs. Concrete International (June), pp. 45-50. (Borvik, Gjorv)

+Bouhaya, L., Le Roy, R., Feraille-Fresnet, A., 2009. Simplified environmental study on innovative bridge structure. Environmental Science and Technology 43(6), pp. 2066-2071.

-Boulay, C., Le Maou, F., Renwez, S., Sercombe, J., Toutlemonde, F., 1997. Caracterisation du comportement au choc d'un mortier a ultra-hautes performances grace a des essais de traction direct. Rapport d'Etude interne LCPC-Bouygues, Laboratoire Central des Ponts et Chaussees, Paris, France, juillet 1997.

-Boulay, C., Clement, J.-L., Toutlemonde, F., Fakhri, P., Verok, K., 2001. Etude du dimensionnement des elements de structure un BTHP soumis a des forces de compression localisees. Rapport pour le Projet National BHP 2000, Theme BTHP (fevrer), 87 pgs.

+Boulay, C., Arca, A., Tailhan, J.-L., Rossi, P., Sananes, J., 2003. Comportement mécanique d'un nouveau composite cimentaire à écrouissage positif. II: Caractérisation du comportement en traction uniaxiale (Mechanical behavior of a new cementitious composite with strain hardening – II : Characterization of the behavior in uniaxial tension). Bulletin des Laboratoires des Ponts et Chaussees 243, pp. 19-30. (in French)

-Boulay, C., Rossi, P., Tailhan, J.L., 2004. Uniaxial tensile test on a new cement composite having a hardening behavior. In: Proceedings of the Sixth RILEM Symposium on Fiber Reinforced Concrete (FRC) (BEFIB 2004), 20-22 September 2004, Varenna-Lecco, Italy.

-Boulet, D., Pleau, R., Rougeau, P., Bodet, R., 2000. Flexural behaviour of ultra high-performance cementitious composites reinforced with different types of steel fibres. In: Proceedings of the Fifth International RILEM Symposium on Fibre-Reinforced Concrete (FRC), Eds. P. Rossi, G. Chanvillard, (RILEM Publications SARL), pp. 759-768.

-Bouteille, S., Resplendino, J., 2005. Derniers developpements dans l"utilisation des betons fibres ultra-performants en France. In: Proceedings of GC'2005, Paris.

-Braam, C.R., Bosman, A., Horeweg, E., Mulder, R., van Rhijn, A., Schilperoort, F., 2002. Contec B250, research reports Stevinlaboratory. Deft Technical University, Summer 2002. (in Dutch)

Brach, A.M., 2005. Surface transportation reauthorization arrives – What are the outcomes and the prospects for research? TR News 240, pp. 39-42.

-Brameshuber, W., Brockmann, T., 2003. Textilbewehrter ultrahochfester Beton. In: Ultrahochfester Beton: 3. Leipziger Fachtagung Innovationen im Bauwesen, Leipzig, G. Konig, K. Holschemacher, F. Dehn, Eds., pp. 153-164.

Brameshuber, W., Brockmann, T., Banholzer, B., 2004. Textile reinforced ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 511-522.

Brauns, J., Rocens, K., 2004. Stress state optimization in steel-concrete composite elements. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 413-423.

Brauns, J., Rocens, K., 2004. The effect of material strength on the behaviour of concrete-filled steel elements. Journal of Civil Engineering and Management 10(3), pp. 177-182.

-Breitenbucher, R., 1999. High performance fibre concrete SIFCON for repairing environmental structures. In: Proceedings of the Third International Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC3), Eds. H.W. Reinhardt, A.E. Naaman, (Cachan: RILEM Publications, 1999), pp. 585-594.

+Brockmann, T., 2007. Mechanical and fracture mechanical properties of fine grained concrete for TRC structures. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 119-129.

+Brockmann, T., Fontana, P., Meng, B., Mueller, U., 2008. Nanotechnologie im Bauwesen (Nanotechnology in construction engineering). Beton- und Stahlbetonbau 103(7), pp. 446-454. (in German)

+Brooks, J.J., Hynes, J.P., 1993. Creep and shrinkage of ultra high-strength silica fume concrete. In: Proceedings of the Fifth International Rilem Symposium, Barcelona, Spain, pp. 493-498.

Brouwer, G., 2001. Bridge to the future. Civil Engineering Magazine 71(11), pp. 50-55.

Brown, J., 2006. Highway span features ultra-high-performance concrete. Civil Engineering Magazine 76(7), pp. 24-26.

+Brühwiler, E., Denarié, E., Habel, K., 2005. Ultra-high performance fibre reinforced concrete for advanced rehabilitation of bridges. In: Proceedings of the fib Symposium – Keep Concrete Attractive, 23-25 May 2005, Budapest, Hungary, Ed. G.L. Balazs, A. Borosnyoi 2, pp. 951-956. (Bruhwiler, Denarie)

+Brühwiler, E., Denarié, E., Putallaz, J.-C., 2005. Instandsetzung einer Betonbrücke mit ultrahochleistungsfähigem Faserfeinkornbeton (UHLFB) – Effizienzsteigerun bei der Bauausführung und Verbesserung der Leistungsfähigkeit der Brücke (Rehabilitation of a concrete bridge with ultra-high performance fibre reinforced concrete (UHPFRC)). Beton- und Stahlbetonbau 100(9), pp. 822-827. (in German) (Bruhwiler, Denarie)

+Brühwiler, E., Fehling, E., Bunje, K., Pelke, E., 2007. Design of an innovative composite road bridge combining reinforced concrete with ultra-high performance fibre reinforced concrete. In: Proceedings of the IABSE Symposium – Improving Infrastructure Worldwide, September, Weimar, Germany, pp. 80-81. (Bruhwiler)

+Brühwiler, E., Denarié, E., 2008. Rehabilitation of concrete structures using ultra-high performance fibre reinforced concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 895-902. (in book pdf) (Bruhwiler, Denarie)

+Brühwiler, E., 2009. Improving safety and durability of civil structures. In: NATO Science for Peace and Security Series C: Environmental Security, Damage Assessment and Reconstruction after War or Natural Disaster, Eds. A. Ibrahimbegovic, M. Zlatar (Springer Science+Business Media B.V., 2009), pp. 63-93. (Bruhwiler)

+Brühwiler, E., 2010. Ultrahochfester Faserbeton verbessert Betonbauten (Ultra-high performance fiber-reinforced concrete improves concrete structures. Betonbau in der Schweiz/Construction en beton en Suisse/Structural Concrete in Switzerland, fib-CH Journee du beton/Betontag 2010 (Swiss national group of the international federation for structural concrete), Third fib-congress, 29 May-2 June 2010, Washington, DC, pp. 145-149. (in German and English) (Bruhwiler)

-Buitelaar, P. 1992. Densit high performance concretes for very strong and dense concrete. Cement 11. (in Dutch)

+Buitelaar, P., 1995. Mortars with ultra high strength. In: Proceedings of the Congreso del Concrete, Avicopre, 28 March 1995, Caracas, Venezuela, 15 pgs. http://www.ferroplan.com

-Buitelaar, P. 1995. Ultra high strength concrete. In: Congresso del Concrete 1995, AVICOPRE, Caracas, Venezuela.

+Buitelaar, P., 1999. Zeer dunne overlagingen met hogesterktemortels (Ultra thin white toppings using HPC). Cement 7, pp. 46-49. http://www.ferroplan.com (in Danish)

+Buitelaar, P., 2000. Het toepassen van zeer hoge sterkte mortels voor zeer dunne overlagingen (HPC and UHPC for ultra thin white toppings. Stutech presentation and Stutech Mededelingen 106, pp. 5-7. http://www.ferroplan.com (in Danish)

+Buitelaar, P., 2001. High performance mortels voor reparatie en voor zeer dunne overlagingen (HPC and UHPC for rehabilitation and thin white toppings). Zeer Hoge Sterkte Beton, Lezing voor de VABOR op 22 maart 2001 (VABOR presentation, Nieuwegein, The Netherlands, March 2001), 24 pgs. http://www.ferroplan.com (in Danish)

Buitelaar, P., 2002. Ultra high heavy reinforced high performance concrete overlays. In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June 2002, Leipzig, Eds. G. Konig, F. Dehn (Leipzig: Leipzig University, 2002) 2, pp. 1577-1590.

+Buitelaar, P., 2003. 20 jaar praktijktoepassingen in fabriek en on-site (UHPC applications). Avondcollege Betonvereniging, Zeer Hoge Sterkte Beton, 28 oktober 2003 (Evening lecture Dutch Concrete Society, Betonvereniging, The Netherlands), 32 pgs. http://www.ferroplan.com (in ?Danish)

Buitelaar, P., 2004. Heavy reinforced ultra-high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 25-35.

+Buitelaar, P., 2004. The Contec pile rehabilitation system. Contec ApS Denmark, 8 pgs.

+Buitelaar, P., Braam, R., Kaptijn, N., 2004. Reinforced high performance concrete overlay system for rehabilitation and strengthening of orthotropic steel bridge decks. In: Proceedings of the Orthotropic Bridge Conference, 2004, Sacramento, CA, USA, 18 pgs. http://www.ferroplan.com

+Buitelaar, P., Braam, C.R., 2006. Ultra thin white topping to re-strengthen infrastructural structures and pavements. In: Proceedings of the Sixth International DUT – Workshop on Fundamental Modelling of Design and Performance of Concrete Pavements, 15-16 September 2006 "Priorij Corsendonk", Old-Turnhout, Belgium, 14 pgs. http://www.ferroplan.com

+Buitelaar, P., Braam, R., de Wit, M., 2006. Heavily reinforced ultra thin white topping to re-strengthen infrastructural structures. In: Proceedings of the Tenth International Symposium on Concrete Roads, 18-22 September 2006, Brussels, Belgium, 14 pgs. http://www.ferroplan.com

+Buitelaar, P., Braam, R., Kaptijn, N., 2006. Concrete evidence. Concrete Engineering International 10(1), pp. 45-46. http://www.ferroplan.com

+Buitelaar, P., Braam, R., Kaptijn, N., Sliedrecht, H., 2006. High performance concrete overlay for rehabilitation and strengthening of orthotropic steel bridge decks. In: Proceedings of the Seventh International Conference on Short and Medium Span Bridges, 23-25 August 2006, Montreal, Quebec, Canada RR-014, 10 pgs. http://www.ferroplan.com

+Buitelaar, P., Braam, R., Kolstein, H., de Jong, P., 2006. Reinforced high performance concrete for rehabilitation of orthotropic steel bridge decks. In: Proceedings of the Eleventh International Conference and Exhibition on Structural Faults and Repair, 13-15 June 2006, Edinburgh, UK, 19 pgs. http://www.ferroplan.com

Bunje, K., Fehling, E., 2004. About shear force and punching shear resistance of structural elements of ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 401-411.

+Burckel, T., Jacques, L., Birault, A., Heintz, L., Daliphard, J., Behloul, M., 2009. Apport des BFUP dans le traitement des ponts thermiques (UHPFRC application for prevention of thermal bypass). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.1.2, 16 pgs. (in French)

+Burkart, I., Müller, H.S., 2008. Creep and shrinkage characteristics of ultra high strength concrete (UHPC). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 469-476. (in book pdf) (Muller)

Busby and Associates Architects, 2004. Ultra high performance concrete dematerialization study. Busby and Associates Architects (Vancouver, BC: EcoSmart™ Concrete Project, 2004), 15 pgs.

— C —

+Cadoni, E., Caverzan, A., di Prisco, M., 2008. Dynamic behaviour of HPFR cementitious composites. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 743-750. (in book pdf)

-Cai, X.-R., Xu, S.-L., 2010. Experimental measurement and evaluation indexes of toughness properties for UHTCC under uniaxial compression. Gongcheng Lixue/Engineering Mechanics 27(5), pp. 218-239. (in Chinese)

Campbell, R.L., O'Neil, E.F., Dowd, W.M., Dauriac, C.E., 1998. Reactive powder concrete for producing sewer, culvert, and pressure pipes. US Army Corps of Engineers – Waterways Experiment Station Final Report CPAR-SL-98-3, Construction Productivity Advancement Research (CPAR) Program, 88 pgs.

+Campillo, I., Dolado, J.S., Porro, A., 2004. High-performance nanostructured materials for construction. In: Nanotechnology in Construction, Eds. P.J.M. Bartos, J.J. Hughes, P. Trtik, W. Zhu (Cambridge, UK: Thomas Graham House, 2004), pp. 215-225.

-Candrlic, B., 2001. Concrete arch bridge over Bakar straits. In: Proceedings of the Conference of Croatian Builders, Eds. V. Simovic, Cavtat, pp. 358-364.

+Candrlic, V., Bleiziffer, J., Mandic, A., 2001. Bakar Bridge designed in reactive powder concrete (Le pont de Bakar conçu en béton et poudre reactive). In: Proceedings of the Third International Arch Bridges Conference, 2001, Paris, France, pp. 695-700. (Čandrlić, Mandić)

-Candrlic, V., Bleiziffer, J., Mandic, A., Mrakovcic, S., 2001. Design of the Bakar Bridge in RPC material. In: Proceedings of the Fifth General Assembly SCSE, 2001, Brioni Island, pp. 217-226.

-Candrlic, V., Bleiziffer, J., Mandic, A., Mrakovcic, S., 2001. Bakarski most u betonu od reaktivnog praha. Peti opci sabor IIDGK, Brijuni.

+Čandrlić, V., Mandić, A., Bleiziffer, J., 2001. The largest concrete arch bridge designed of RPC 200. In: Proceedings of the Fourth Symposium on Strait Crossings, 2-5 September 2001, Bergen, Norway, pp. 145-151. (Candrlic, Mandic, Bleiziffer)

+Candrlic, V., Bjegovic, D., Skazlic, M., 2002. Croatian experience with RPC. In: Proceedings of the Sixth International Conference on Short and Medium Span Bridges – Developments in Short and Medium Span Bridge Engineering, 31 July-2 August 2002, Vancouver, British Columbia 1, pp. 355-362. (Čandrlić, Bjegović, Skazlić)

+Čandrlić, V., Bjegović, D., Skazlić, M., 2003. RPC structures in Croatia. In: Proceedings of the International Conference on Performance of Construction Materials in the New Millennium (ICPCM), 18-20 February 2003, Cairo, Egypt, pp. 961-970. (Candrlic, Bjegovic, Skazlic)

Candrlic, V., Mrakovcic, S., Skazlic, M., 2003. Nove konstrukcije velikih montažnih lučnih mostova (New structures of large-span prefabricated arch bridges). Gradevinar 55(5), pp. 255-262. (in Serbian) (Čandrlić, Mrakovčić, Skazlić)

-Cao, L., Liu, F., 2006. Performance and engineering application of steel fiber reinforced high-strength and super high-strength concrete. Journal of Xuzhou Institute of Engineering 21(6), 10 pgs.

Cappola, J., Lachemi, M., 2000. The use of reactive powder concrete for civil engineering structures. In: Proceedings of the 2000 Annual Conference - Canadian Society for Civil Engineering, 7-10 Jun 2000, London, Ontario, Canada, 66. (abstract only)

Cargile, J.D., O'Neil, E.F., Neeley, B.D., 2003. Very-high-strength concretes for use in blast- and penetration-resistant structures. The AMPTIAC Quarterly 6(4) pp. 61-66.

+Carcasses, M., 2009. Bétons fibrés ultra performant (BFUP) - Les nouvelles recommandations AFGC chapitre 3 durabilité des BFUP (Updated AFGC recommendations: Chapter 3 - Durability). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.1.4, 8 pgs. (in French)

+Carrasquillo, R.L., 1985. Production of high strength pastes, mortars, and concretes. In: Proceedings of the Symposium on Very High Strength Cement-Based Materials, 27-28 November 1984, Boston, MA, USA, Ed. J.F. Young 42, pp.151-168.

+Casanova, P., Dugat, J., Orange, G., 2000. Ductal®: A new generation of ultra-high performance fiber reinforced concrete (La passerelle de Sermaises: utilisation d'un BFUP sans armature, qui tient au feu). In: Proceedings of the HPC Symposium on Workability, Strength and Durability, Hong Kong, December 10-15, 2000, Eds. C.K.Y. Leung, Z. Li, J.-D. Ding, 2, pp. 853-859.

Casanova, P., Durukal, A., 2002. A fire-resistant ultra high performance fibre reinforced concrete footbridge without reinforcement. In: Proceedings of the First International Conference on Footbridges, 20-22 November 2002, Paris, 6 pgs.

Castellote, M., Llorente, I., Andrade, C., Alonso, C., 2003. Accelerated leaching of ultra high performance concretes by application of electrical fields to simulate their natural degradation. Materials and Structures/Materiaux et Constructions 36, pp. 81-90.

-Cattaneo, S., 2000. Ultra high-performance concrete: Constitutive behavior and structural applications. Ph.D.Thesis, Politecnico di Milano.

Cavill, B., Chirgwin, G., 2003. The worlds first Ductal road bridge – Shepherds Gully Creek Bridge, NSW. In: Proceedings of the Twenty-first Biennial Conference of the Concrete Institute of Australia, 17-19 July 2003, Brisbane, Australia, 11 pgs.

Cavill, B., 2005. Ductal – An ultra-high performance material for resistance to blasts. In: Presentation at the Engineering and Research Forum, 25 February 2005, Canberra Australia, 47 slides.

+Cavill, B., Rebentrost, M., 2006. Ductal® - a high-performance material for resistance to blasts and impacts. Australian Journal of Structural Engineering 7(1), pp. 37-45.

Chan, Y.-W., Chu, S.-H., 2004. Effect of silica fume on steel fiber bond characteristics in reactive powder concrete. Cement and Concrete Research 34(7), pp. 1167-1172.

+Chandra, S., Ohama, Y., 1994. History interactions and current status of the polymers in concrete. In: Proceedings of the V. Mohan Malhotra Symposium on Concrete Technology: Past, Present, and Future, Ed. P.K. Mehta (Detroit, MI, USA: American Concrete Institute, 1994) ACI SP-144-23, pp. 483-506.

+Chandrashekhar, G.V., Cooper, E.I., Shafer, M.W., 1989. Dielectric properties of macro-defect-free (MDF) cement. Journal of Materials Science 24, pp. 3356-3360.

+Chandrashekhar, G.V., Shafer, M.W., 1989. Polymer impregnation of macro-defect-free cements. Journal of Materials Science 24, pp. 3353-3355.

Chanvillard, G., Rigaud, S., 2003. Complete characterization of tensile properties of Ductal® UHPFRC according to the French recommendations. In: Proceedings of the Fourth International RILEM Workshop – High Performance Fiber Reinforced Cement Composites, HPFRCC4, June 2003, Eds. A.E. Naaman, H.W. Reinhardt (RILEM Publication, Pro. 30), pp. 21-34.

+Charron, J.-P., Denarié, E., Brühwiler, E., 2004. Permeability of UHPFRC under high stresses. In: Proceedings of the International RILEM Symposium on Advances in Concrete through Science and Engineering, 22-24 March 2004, 12 pgs. (Denarie, Bruhwiler)

+Charron, J.-P., Denarié, E., Brühwiler, E., 2007. Permeability of ultra high performance fiber reinforced concretes (UHPFRC) under high stresses. Materials and Structures 40(3), pp. 269-277. (Denarie, Bruhwiler)

+Charron, J.-P., Denarié, E., Brühwiler, E., 2008. Transport properties of water and glycol in an ultra high performance fiber reinforced concrete (UHPFRC) under high tensile deformation. Cement and Concrete Research 38, pp. 689-698. (Denarie, Bruhwiler)

+Charron, J.-P., Niamba, E., Massicotte, B., 2008. Design of bridge parapets in high and ultra high performance fibre reinforced concretes. In: Proceedings of the Seventh RILEM International Symposium on Fibre Reinforced Concrete (BEFIB 2008), Ed. R. Gettu, (RILEM Publications SARL), pp. 951-960.

+Charron, J.-P., Niamba, E., Massicotte, B., 2009. Precast bridge parapets in ultra-high performance fibre reinforced concrete. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.2.2, 8 pgs.

+Chauvel, D., Adeline, R., Jacquemmoz, C., Birelli, G., 1998. First design rules for RPC beams. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 1-15.

-Chauvel, D., Cheyrezy, M., 2002. The use of RPC in cross flow cooling towers. Presentation at SEPTEN/EDF Headquarters, Lyon, France, September 18, 2002.

-Chen, B.-S., Xiao, Y., Huang, Z.-Y., Zhang, C.-G., 2009. Experimental study on the spalling strength of fiber reactive powder concrete. Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences 36(7), pp. 12-16. (in Chinese)

-Chen, W.-X., Guo, Z.-K., 2010. Anti-penetration characteristics of RPC shelter plates with irregular barriers on surfaces. Baozha Yu Chongji/Explosion and Shock Waves 30(1), pp. 51-57. (in Chinese)

-Chen, Y.-Z., 2003. The design and experiments of sidewalk flat and support of railway bridges using reactive powder concrete. Beijing: Northern Jiaotong University. (in Chinese)

-Chen, Y.J., Chern, J.C., Chan, Y.W., Liu, W.J., 2004. Flexural energy dissipation behavior of thin reactive powder concrete plate. In: Proceedings of the Seventh National Conference on Structural Engineering, 2004, Taoyuan, Taiwan, pp. 198-199.

Chen, Y.-J., Chern, J.-C., Chan, Y.-W., Liao, W.-C., Wu, A.-K., 2007. Reinforced reactive powder concrete plate under cyclic loading. Journal of the Chinese Institute of Engineers 30(2), pp. 299-310.

-Cheng, R.B., 2003. Study of mechanical properties of reactive powder concrete elements. Ph.D. Thesis, National Taiwan University, Taipei, Taiwan.

-Cheyrezy, M., 1995. Improvement of durability and water tightness of concrete structures by use of high and ultra high performance concrete. SIA Documentation D0702, pp. 93-97. (in French)

-Cheyrezy, M., Marcel, H., Dauriac, C.E., 1995. Reactive powder concrete (RPC). In: Proceedings of the Thirtieth Plenary Session of the Comite Euro-international du Beton (CEB).

+Cheyrezy, M., Maret, V., Frouin, L., 1995. Analyse de la microstructure du beton de Poudres Réactives (BPR). Annales de l"Institut Technique du Batiment et des Travaux Publics 532(320), pp. 103-111.

Cheyrezy, M., Maret, V., Frouin, L., 1995. Microstructural analysis of RPC (reactive powder concrete). Cement and Concrete Research 25(7), pp. 1491-1500.

+Cheyrezy, M., 1997. Structural applications of RPC. In: Proceedings of the International Conference on New Technologies in Structural Engineering, 2-5 July 1997, Lisbon, Portugal 1, pp. 5-14.

-Cheyrezy, M., Behloul, M., Dowd, W.M., Dauriac, E., 1998. Reactive powder concrete (RPC) application for seismic design. In: Proceedings of the ACI Conference – Fibered Reinforced Concrete Session, October 1998, Los Angeles, 15 pgs.

+Cheyrezy, M., Roux, N., Behloul, M., Ressicaud, A., Demonte, A., 1998. Bond strength of reactive powder concrete. In: Proceedings of the Thirteenth FIP Congress (FIP98), 23-29 May 1998, Amsterdam 1, pp. 65-68.

Cheyrezy, M., 1999. Structural applications of RPC. Concrete 33(1), pp. 20-23.

+Cheyrezy, M., Behloul, M., 2001. Creep and shrinkage of ultra-high performance concrete. In: Proceedings of Concreep 6 - Creep, Shrinkage and Durability Mechanics of Concrete and Other Quasi-Brittle Materials (Concreep 6), 13-15 August, 2001, Cambridge, MA, Eds. F.-J. Ulm, Z.P. Bazant, F.H. Wittmann (Boston: Pergamon Press, 2001), pp. 527-538.

Cheyrezy, M., Guimbal, F., Lagerblad, B., Alonso, M.-C., 2001. Understanding and improvement of high performance and ultra high performance cementitious materials – Resistance to long term water aggression. In. Proceedings of the Third International Conference on Concrete Under Severe Conditions, Eds. E.N. Banthia, K. Sakai, O.E. Gjørv (Vancouver, Canada: The University of British Columbia, 2001) 2, pp. 1287-1294.

Childs, P., Wong, A.C.L., Gowripalan, N., Peng, G.D., 2007. Measurement of the coefficient of thermal expansion of ultra-high strength cementitious composites using fibre optic sensors. Cement and Concrete Research 37, pp. 789-795.

-Chin, W.J., Kim, Y.J., Choi, E.S., Kang, J.Y., Kim, B.S., 2010. Experimental study on dynamic characteristics of UHPC pedestrian cable stayed bridge. In: Proceedings of Fifth International Conference on High Performance Structures and Materials V (HPSM 2010) - WIT Transactions on the Built Environment, 26-28 July 2010, Tallinn, Estonia (UK: WITPress, Ashurst Lodge, Ashurst, Southampton) 112, pp. 257-267.

-Chiu, H.J., 2003. Study of the behavior of reactive powder concrete plate under reversed cyclic loading. M.S. Thesis, National Taiwan University, Taipei, Taiwan.

Cho, A., 2006. The 21st century interstate features a new material world. ENR.com, 8 pgs.

+Choi, C.S., Choi, Y.C., Yun, H.D., 2006. Retrofit using increased section area method of artificially perforated shear wall in existing wall dominant structure. Key Engineering Materials 324-325, pp. 639-649.

+Chowdhury, B., 2003. Thermal and polarization studies of carbonaceous cement. Diffusion and Defect Data Pt. B: Solid State Phenomena 90-91, pp. 25-32.

+Chu, T.-J., Robertson, R.E., 1994. Viscoelastic behaviour of macro-defect-free cement. Journal of Materials Science 29, pp. 2683-2690.

-Chuang, E., Ulm, F.-J., 2002. Ductility enhancement of high performance cementitious composites and structures. MIT-CEE Report R02-02 to the Lafarge Corporation.

Chuang, E., Park, H., Ulm, F.-J., 2003. Structural effect of UHPC ductility. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 20 pgs.

Chuang, E., Ulm, F.J., 2004. Size independence of UHPC ductility. In: Proceedings of the International Conference on Fracture Mechanics of Concrete and Concrete Structures, 12-16 April 2004, Vail, Colorado, USA, Ed. V. Li (la-FraMCos, 2004), pp. 1067-1074.

+Cizmar, D., Mestrovic, D., Radic, J., 2006. Arch bridge made of reactive powder concrete. In: Proceedings of the Third International Conference on High Performance Structures and Materials III, 3-5 May 2006, Ostend, Belgium, pp. 429-437. (Radić)

Cizmar, D., Nizic, A., Mestrovic, D., 2006. The reactive powder concrete bridge across Bakar strait. In: Proceedings of the IABSE Symposium, Responding to Tomorrow's Challenges in Structural Engineering (Budapest: International Association for Bridge and Structural Engineering (IABSE) Hungarian Group and the Budapest University of Technology and Economics, 2006) 92, pp. 224-225.

-Clement, J.L., Toutlemonde, F., xxxx. Programme de qualification de la couverture BPR de la zone poudre ATPU – Batiment 258 – CADARACHE. Rapports d'expertise et rapport de validation (Confidentiels). Contrat LCPC-SGN/COGEMA no. 34207199, realise par les devisioins BCC et FDOA du LCPC (mai-novembre).

+Cochet, G., Cariou, B., 1992. Very high performance micro-concretes for the confinement of industrial waste. Cement and Concrete Research 22, pp. 319-324.

Cohen, D., 2002. Fantastic voyager. New Scientist (March), pp. 37-39.

+Collepardi, M., 1994. Superplasticizers and air entraining agents: State of the art and future needs. In: Proceedings of the V. Mohan Malhotra Symposium on Concrete Technology: Past, Present, and Future, Ed. P.K. Mehta (Detroit, MI, USA: American Concrete Institute, 1994) ACI SP-144-20, pp. 399-416.

+Collepardi, M., 2000. Calcestruzzi ad Altissima Resistenza: HPC, DSP ed RPC. Centro Internazional Di Aggiornamento Sperimentale-Scientifico, pp. 291-314. (in Italian)

Collepardi, M., Corinaldesi, V., Monosi, S., Moriconi, G., 2002. Applicazioni di calcestruzzi innovativi (SCC, HPC, RPC) nell'ingegneria edile, civile ed ambientale (Applications of innovative concretes (SCC, HPC, RPC) in the building, civil and environmental engineering. Industria Italiana del Cemento (October), pp. 784-791. (in Italian and English)

+Collepardi, M., Corinaldesi, V., Monosi, S., Moriconi, G., 2002. Applicazioni e sviluppo dei materiali DSP (DSP materials applications and development progress). Industria Italiana del Cemento 777, pp. 540-544. (in Italian and English)

+Collepardi, S., Coppola, L., Troli, R., Collepardi, M., 1997. Mechanical properties of modified reactive powder concrete. In: Proceedings of the Fifth CANMET/ACI International Conference on Superplasticizers and Other Chemical Admixtures in Concrete, 1997, Rome, Italy, Ed. V.M. Malhotra (Farmington Hills, MI, USA: American Concrete Institute, 1997) ACI SP-173-1, pp. 1-21.

+Collepardi, S., Coppola, L., Troli, R., Zaffaroni, P., 1999. Influence of the superplasticizer type on the compressive strength of reactive powder concrete for precast structures. In: Atti del 16 Congresso Internazionale BIBM'99, 25-28 Maggio 1999, Venezia, Italia, pp. 25-30.

Collepardi, S., Coppola, L., Troli, R., Collepardi, M., XXXX. Mechanical properties of modified reactive powder concrete, 16 pgs.

+Comotti, A., Simonutti, R., Sozzani, P., 1997. Morphology of the poly(vinyl alcohol)-poly(vinyl acetate) copolymer in macro-defect-free composites: a ^{13}C magic-angle-spinning nuclear magnetic resonance and ^{1}H spin-diffusion study. Journal of Materials Science 32, pp. 4237-4245.

Cooke, R.S., 2005. Concrete footbridges. In: Proceedings of the International Conference on Concrete for Transportation Infrastructure, 5-7 July 2005, University of Dundee, Scotland, UK, Eds. R.K. Dhir, M.J. McCarthy, S. Caliskan (London: Thomas Telford Publishing, 2005), pp. 195-204.

+Coppola, L., Troli, R., Cerulli, T., Collepardi, M., 1996. The influence of materials on performance of reactive powder concrete. In: Proceedings of the International Conference on High-Performance Concrete, and Performance and Quality of Concrete Structures, Florianopolis, pp. 502-513.

+Coppola, L., Troli, R., Collepardi, S., Borsoi, A., Cerulli, T., Collepardi, M., 1996. Materiali cementizi innovativi: Dagli HPC verso gli RPC, Parte II: L'influenza del cemento e del fumo di silice sulla resistenza meccanica del reactive powder concrete (Innovative cementitious materials from HPC to RPC, Part II: The effect of cement and silica fume type on the compressive strength of reactive powder concrete). L'Industria Italiana del Cemento 707, pp. 112-125. (in Italian and English)

+Coppola, L., Troli, R., Borsoi, A., Zaffaroni, P., Collepardi, M., 1997. Influence of superplasticizer type on compressive strength of reactive powder mortars. In: Proceedings of the Fifth CANMET/ACI International Conference on Superplasticizers and Other Chemical Admixtures in Concrete, 1997, Rome, Italy, Ed. V.M. Malhotra (Farmington Hills, MI, USA: American Concrete Institute, 1997) ACI SP-173-27, pp. 537-557.

Coppola, L., 1998. Realizzato in Canada in calcestruzzo privo de armature. La prima opera al mondo in reactive powder concrete. Enco Journal 7, 5 pgs. http://www.edilweb.it/modules.php?name=News&file=article&sid=32 (in Italian)

+Corinaldesi, V., Moriconi, G., 2007. Optimizing reactive powder concrete mixtures for producing thin precast elements. In: Proceedings of the Ninth CANMET/ACI International Conference on Recent Advances in Concrete Technology, May 2007, Warsaw, Poland, Ed. V.M. Malhotra (Farmington Hills, MI: American Concrete Institute, 2007) SP 243-5, pp. 63-71.

+Corradi, M., 2006. Concrete for the construction industry of tomorrow. In: Proceedings of the International Symposium on Measuring, Monitoring and Modeling Concrete Properties, July 2006, Alexandroupolis, Greece, Ed. M.S. Konsta-Gdoutos (Netherlands: Springer, 2006), pp. 429-440.

+Cousins, T., Roberts-Wollmann, C., Sotelino, E., 2008. UHPC deck panels for rapid bridge construction and long term durability. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 699-705. (in book pdf)

+Crane, C.K., 2010. Shear and shear friction of ultra-high performance concrete bridge girders. PhD Dissertation, Georgia Institute of Technology, 348 pgs.

Cui, C., Lu, Y., Hu, M., 2000. Modification the cementitious material of ultra-high-strength sleeper concrete. Journal of Wuhan University of Technology, Materials Science Edition 15(2), pp. 28-34.

-Cuny, J., 1995. Essais de caracterisation de poteaux en materiau BPR. Rapport de DEA, Ecole Mormal Superieure de Cachan, Juin.

+Curbach, M., Speck, K., 2007. Versuchstechnische ermittlung und mathematische beschreibung der mehraxialen festigkeit von ultra-hochfestem beton (UHPC) – Zweiaxiale druckfestigkeit. Arbeitsbericht an die Deutsche Forschungsgemeinschaft (DFG) zum Forschungsvorhaben CU 37/6-1, TU Dresden, 72 pgs. (in German)

+Curbach, M., Speck, K., 2007. Zweiaxiale Druckfestigkeit von ultrahochfestem Beton. Beton- und Stahlbetonbau 102(10), pp. 664-673. (in German)

+Curbach, M., Speck, K., 2008. Ultra high performance concrete under biaxial compression. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 477-484. (in book pdf)

+Cwirzen, A., Penttala, V., Vornanen, C., 2005. RPC mix optimization by determination of the minimum water requirement of binary and polydisperse mixtures. In: Proceedings of the International Symposium on Innovation and Sustainability of Structures in Civil Engineering, November 2005, Nanjing, China, pp. 2191-2202.

+Cwirzen, A., Penttala, V., 2006. Effects of increased aggregate size on the mechanical and rheological properties of RPC. In: Proceedings of the Second International Symposium on Advances in Concrete through Science and Engineering, 11-13 September 2006, Quebec, Canada, pg. 299. (abstract only)

-Cwirzen, A., Penttala, V., Vornanen, C., Junna, K., 2006. Self-compacting ultra-high-strength concrete containing coarse aggregates. TKK report, Laboratory of Building Materials, Department of Civil and Environmental Engineering, Helsinki University of Technology, Report 20, 129 pgs.

Cwirzen, A., 2007. The effect of the heat-treatment regime on the properties of reactive powder concrete. Advances in Cement Research 19(1), pp. 25-33.

-Cwirzen, A., Vornanen, C., Habermehl-Cwirzen, K., 2007. Long-term mechanical properties of low-water cement ratio ultra-high strength concrete. In: Proceedings of the International Concrete Symposium, Adelaide, Australia, pp.11.

+Cwirzen, A., Habemehl-Cwirzen, K., Penttala, V., 2008. The effect of heat treatment on the salt freeze-thaw durability of UHSC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 221-230. (in book pdf)

+Cwirzen, A., Penttala, V., Vomanen, C., 2008. Reactive powder based concretes: Mechanical properties, durability and hybrid use with OPC. Cement and Concrete Research 38, pp. 1217-1226.

— D —

+D'Alessandro, K.C., Roberts-Wollmann, C.L., Cousins, T.E., Sotelino, E.D., 2009. Investigation of biaxial stress states of ultra-high performance concrete bridge girders through small panel testing and finite element analysis. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper P2, 13 pgs.

Dale, K., 2004. Building BLAST Trial. AUSGEO News (September) 75, pp. 20-21.

Dallaire, E., Bonneau, O., Lachemi, M., Aïtcin, P.-C., 1996. Mechanical behavior of confined reactive powder concretes. In: Proceedings of the Fourth Materials Engineering Conference, 10-14 November 1996, Washington, DC, USA, Ed. K.P. Chong (New York: American Society of Civil Engineers – Materials Engineering Division, 1996) 1, pp. 555-563. (Aitcin)

Dallaire, E., Aïtcin, P.-C., Lachemi, M., 1998. High-performance powder. Civil Engineering 68(1), pp. 49-51. Aitcin

+Dattatreya, J.K., Harish, K.V., Neelamegam, M., 2007. Use of particle packing for mix proportioning of reactive powder concrete. The Indian Concrete Journal 81(9), pp. 31-45.

+Dattatreya, J.K., Harish, K.V., Neelamegam, M., 2008. Investigation of the flexural toughness and fracture energy of high and ultra high performance fiber reinforced concretes. In: Proceedings of the Seventh RILEM International Symposium on Fibre Reinforced Concrete (BEFIB 2008), Ed. R. Gettu, (RILEM Publications SARL), pp. 231-242.

-Dauriac, C., 1995. Alternative component materials for rpc. Construction Productivity Advancement Research (CPAR) Program, HDR, Inc., Omaha, NE.

Dauriac, C., 1997. Special concrete may give steel stiff competition. The Seattle Daily Journal of Commerce – Concrete (May 9), 6 pgs.

+de Groot, F., 1997. Een nieuwe toekomst ? (Cement based toppings: A new future ?) Vloer Technisch Magazine 2, 4 pgs. http://www.ferroplan.com (in ?Danish)

+de Larrard, F., 1989. Ultrafine particles for the making of very high strength concretes. Cement and Concrete Research 19(2), pp. 161-172.

de Larrard, F., Sedran, T., 1994. Optimization of ultra-high-performance concrete by the use of a packing model. Cement and Concrete Research 24(6), pp. 997-1009.

-de Larrard, F., 1999. Concrete mix proportioning – A scientific approach, E&FN SPON, 200 pgs.

+de Larrard, F., Sedran, T., 2002. Mixture proportioning of high-performance concrete. Cement and Concrete Research 32(11), pp. 1699-1704.

+de Larrard, F., 2009. The high-performance cementitious material (HPCM), a cousin of UHPFRC for long-life pavement. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.2.5, 8 pgs.

+de Matteis, D., Novarin, M., Marchand, P., Fabry, N., Petel, A., Chanut, S., 2008. A fifth French bridge including UHPFRC components, the widening of the Pinel Bridge, in Rouen (France). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 795-802. (in book pdf)

Deem, S., 2002. Concrete attraction - Something new on the French menu-concrete. Popular Mechanics (June), 6 pgs.

-Dehn, F., Konig, G., 2002. Fire resistance of different fiber reinforced high-performance concretes. In: Proceedings of the Workshop HPFRCC 4, June 2003, Ann Arbor, MI.

Dehn, F., Konig, G., 2002. Neue Konstuktionsmöglichkeiten mit ultrahochtestem Beton (UHPC) (New construction possibilities by the use of ultra high-performance concrete (UHPC)). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 68(2), pp. 16-17. (in German and English)

+Dehn, F., 2003. Herstellung, Verarbeitung und Qualitätssicherung von UHPC. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 37-47. (in book pdf) (in German)

Dehn, F., 2004. Temperature behavior of ultra-high performance concrete (UHPC) – a microanalytical reflect. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 731-742.

-Dehn, F., 2004. Ultrahochfester Beton: Technologie und Anwendung. Beton, 5, pp. 246-252.

Dehn, F., 2005. Quatlitätsgerechte Herstellung, Verarbeitung und Nachbehandlung von Ultra-Hochleistungsbeton (Quality-conform production, processing and curing of ultra-high-performance concrete). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 71(2), pp. 22-23. (in German and English)

+Dehn, F., 2006. Innovative betone – Neue entwicklungen und perspektiven. Tiefbau 4, pp. 192-196. (in German)

+Dehn, F., 2009. Fiber-reinforced ultra-high-performance concrete in practice - Precast bridge in Volkermarkt - Quality assurance and support by an expert consultant (Faserbewehrter Ultrahochleistungsbeton in der Praxis - Fertigteilbrücke in Völkermarkt - Qualitätssicherung und gutachterliche Begleitung). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(2), pg. 48. (in English and German)

+Dehn, F., Konig, A., Pistol, K., 2009. Building materials. In: Technology Guide – Principles, Applications, Trends, Ed. H.-J. Bullinger (Berlin: Springer-Verlag, 2009) 10, pp. 422-425.

+Delauzun, O., Rogat, D., Boutillon, L., Linger, L., Clergue, C., 2009. Construction du pont de la Chabotte en BFUP sur l'autoroute A51 (Overpass no. 34 - Viaduct de la Chabotte over Motorway A51). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.1.3, 12 pgs. (in French)

+Delucchi, M., Cerisola, G., 2001. Influence of organic coatings on the stability of macrodefect-free cements exposed to water. Construction and Building Materials 15, pp. 351-359.

+Denarié, E., Habel, K., Brühwiler, E., 2003. Structural behavior of hybrid elements with advanced cementitious materials (HPFRCC). In: Proceedings of the Fourth RILEM International Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC-4), 16-18 June 2003, Ann Arbor, MI, Eds. A.E. Naaman, H.W. Reinhardt, pp. 301-312. (Denarie, Bruhwiler)

+Denarié, E., Habel, K., Charron, J.P., Wuest, J., Kamen, A., Brühwiler, E., 2004. Ultra high performance fiber reinforced concretes for rehabilitation. In: Proceedings of the International RILEM TC 193-RLS Workshop on Bonded Concrete Overlays, 7-8 June 2004, Stockholm, Sweden, Eds. J.L. Granju, J. Silfwerbrand, Swedish Cement and concrete Research Institute (CBI) (RILEM Publications SARL), pp. 35-39. (Denarie, Bruhwiler)

-Denarie, E., 2005. Structural rehabilitations with ultra-high performance fibre reinforced concretes (UHPFRC). In: Proceedings of the International Conference on Concrete Repair, Rehabilitation and Retrofitting (ICCRRR 2005), 21-23 November 2005, Cape Town, South Africa, Eds. M. Alexander, H.-D. Beushausen, F. Dehn, P. Moyo.

+Denarié, E., Brühwiler, E., 2006. Structural rehabilitations with ultra-high performance fibre reinforced concretes (UHPFRC). International Journal for Restoration of Buildings and Monuments 12(5/6), pp. 453-468. (Denarie, Bruhwiler)

+Denarié, E., Brühwiler, E., 2006. Tailored composite UHPFRC-concrete structures. In: Proceedings of the International Symposium on Measuring, Monitoring and Modeling Concrete Properties, July 2006, Alexandroupolis, Greece, Ed. M.S. Konsta-Gdoutos (Netherlands: Springer, 2006), pp. 69-75. (Denarie, Bruhwiler)

+Desai, P.G., Lewis, J.A., Bentz, D.P., 1994. Unreacted cement content in macro-defect-free composites: Impact on processing-structure-property relations. Journal of Materials Science 29, pp. 6445-6452.

Detwiler, G., 1992. High-performance concrete production creates new challenge. Concrete Construction 37(5), pp. 359-362.

+Deuse, T., Hornung, D., Mollmann, M., 2009. From Mikrodur to Nanodur technology - Standard cement for practice-oriented manufacture of UHPC (Von der Mikrodur-Zur Nanodur-Technologie - Normzement zur praxisgerechten Herstellung von UHPC). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(5), pp. 4-15. (in English and German)

-Dham, M., Rushing, T.S., Helferich, R., Marth, T., Sengupta, S., Revur, R., Weiss, C.,A., Cummins, T.K., 2010. Enhancement of reactive powder concrete via nanocement integration. Transportation Research Record 2142, pp. 18-24.

+di Prisco, M., Colombo, M., 2006. FRC and HPFRC composites: From constitutive behaviour to structural applications. In: Proceedings of the International Symposium on Measuring, Monitoring and Modeling Concrete Properties, July 2006, Alexandroupolis, Greece, Ed. M.S. Konsta-Gdoutos (Netherlands: Springer, 2006), pp. 59-68.

+di Prisco, M., Lamperti, M., Lapolla, S., Khurana, R.S., 2008. HPFRCC thin plates for precast roofing. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 675-682. (in book pdf)

+di Prisco, M., Plizzari, G., Vandewalle, L., 2009. Fibre reinforced concrete: New design perspectives. Materials and Structures (Materiaux et Constructions) 42(9), pp. 1261-1281.

Diamond, S., 1985. Very high strength cement-based materials – a perspective. In: Proceedings of the Very High Strength Cement-Based Materials Symposium, 27-28 November 1984, Boston, Massachusetts, USA, Ed. J.F. Young (Pittsburgh, PA: Materials Research Society, 1985) 42, pp. 233-243.

Dick, J.S., 2002. Precast technology and bridge design. Structural Engineer 3(4), pp. 24-29.

+Diederichs, U., Mertzsch, O., 2008. Behaviour of ultra high strength concrete at high temperatures. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 347-354. (in book pdf)

-Diederichs, U., Gratz, U., Mertzsch, O., Cwirzen, A., Penttala, V., XXXX. High temperature behavior of ultra high strength concrete. Helsinki University of Technology, Building Materials Technology, Report 20.

Dili, A.S., Santhanam, M., 2004. Investigations on reactive powder concrete: A developing ultra high-strength technology. Indian Concrete Journal 78(4), pp. 33-38.

DOE, 2004. Application of advanced construction technologies to new nuclear power plants, MPR-2610 Revision 2 DE-AT01-02NE23476, 132 pgs.

+Dogan, E., Krstulovic-Opara, N., 2003. Seismic retrofit with continuous slurry-infiltrated mat concrete jackets. ACI Structural Journal 100(6), pp. 713-722.

+Donatello, S., Tyrer, M., Cheeseman, C.R., 2009. Recent developments in macro-defect-free (MDF) cements. Construction and Building Materials 23(5), pp. 1761-1767.

-Dowd, W.M., 1996. Sherbrooke pedestrian/bikeway footbridge using reactive powder concrete technology. In: Proceedings of the International Research Symposium on Engineering and Construction for Sustainable Development in the 21st Century, Civil Engineering Research Foundation, Washington, DC.

-Dowd, W.M., Aitcin, P.-C., Dauriac, C.E., 1996. Applying reactive powder concrete research to bridge construction practice: Sherbrooke Pedestrian/Bikeway Bridge. Civil Engineering Research Foundation: Finalist at the 1996 International Technology Showcase – Innovation Awards Program, Washington, D.C.

Dowd, W.M., Dauriac, C.E., 1996. Reactive powder concrete. Construction Specifier 49(12), pp. 47-52.

Dowd, W.M., O'Neil, E.F., 1996. Development of reactive powder concrete (RPC) precast products for the US market. In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-performance Concrete, 29-31 May 1996, Paris, France, Ed. F. de Larrard, R. Lacroix, pp. 1391-1398.

+Dowd, W.M., Dauriac, C.E., 1998. Development of reactive powder concrete (RPC) precast products for the United States market. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 37-57.

+Dowd, W.M., Dauriac, C.E., Adeline, R., 1999. Reactive powder concrete for bridge construction. In: Proceedings of the Fifth Materials Congress, May 1999, Cincinnati, pp. 359-366.

+Drabik, M., Mojumdar, S.C., Galikova, L., 2001. Changes of thermal events of macrodefect-free (MDF) cements due to the deterioration in the moist atmosphere. Cement and Concrete Research 31(5), pp. 743-747.

-Drabik, M., Mojumdar, S.C., Slade, R.C.T., 2001. Prospects of novel macro-defect-free cements for the new millennium. Ceramics – Silikaty 46(2), pp. 68-73.

+Drábik, M., Gáliková, L., Varshney, K.G, Quraishi, M.A., 2004. MDF cements – Synergy of the humidity and temperature effects. Journal of Thermal Analysis and Calorimetry 76, pp. 91-96. (Drabik, Galikova)

+Drabik, M., Slade, R.C.T., 2004. Macrodefect-free materials: Modification of interfaces in cement composites by polymer grafting. Interface Sciences 12, pp. 375-379.

+Drábik, M., Gáliková, L., Balkovic, S., Slade, R.C.T., 2008. Macro-defect-free materials with controlled moisture resistance. In: Proceedings of the ACI Fall 2006 Convention – Nanotechnology of Concrete: Recent Developments and Future Perspectives, 8 November 2006, Denver, ACI SP-254-10, pp. 145-155. (Drabik, Galikova)

-Droll, K., 2003. Einfluss von Zusatzstoffen auf die rheologischen und mechanischen Eigenschaften von UHFB. 3. Leipziger Fachtagung, Ultrahochfester Beton (UHFB), Leipzig 27/28 Nov 2003.

Droll, K., 2004. Influence of additions on ultra-high performance concretes – grain size optimization. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 285-302.

Du, L., Shi, S.-Q., Zhang, X.-J., Huang, X.-Y., 2004. FEA about capacity of resisting explosion inside of short concrete column with steel tube confined. Journal of Chongqing University 27(10), pp. 142-144. (in Chinese) (not UHPC/RPC, but of interest)

-Dubroca, S., Naudin, N., Toutlemonde, F., 1998. Essai sur poutrelle BSI. Rapport d'etude no. 34240598, donneur d'ordre R. Gilliers, E.G.I (febrier).

+Dudziak, L., Mechtcherine, V., 2008. Mitigation of volume changes of ultra-high performance concrete (UHPC) by using super absorbent polymers. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 425-432. (in book pdf)

-Dudziak, L., Mechtcherine, V., 2010. Deliberations on kinetics of internal curing water migration and consumption based on experimental studies on sap-enriched UHPC. In: Proceedings of the International RILEM Conference on Use of Superabsorbent Polymers and Other New Additives in Concrete, Eds. O.M. Jensen, M.T. Hasholt and S. Laustsen, pp. 33 – 43.

+Dugat, J., Roux, N., Bernier, G., 1995. Étude éxperimentale de la déformation sous contrainte et du comportement á la rupture du béton de poudres réactives (BPR). Les Annales l'Institut technique de bâtiment et des travaux publics 532(320), pp. 112-121. (in French)

Dugat, J., Frouin, L., Clavaud, B., 1996. RPC: Microstructure analysis (BPR: Analyse de la microstructure). In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-performance Concrete, 29-31 May 1996, Paris, France, Eds. F. de Larrard, R. Lacroix, pp. 1351-1357.

Dugat, J., Roux, N., Bernier, G., 1996. Mechanical properties of reactive powder concretes. Materials and Structures/Materiaux et Constructions 29(188), pp. 233-240.

-Durukal, A., Casanova, P., 2002. The Sernaises footbridge: A fire-resistant ultra high performance fibre reinforced concrete footbridge without reinforcement. Presented at: the First International Conference on Footbridges, 2002, Paris.

+Durukal, A., Batoz, J.-F., 2003. Ultra high performance fibre reinforced concrete footbridges. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 59-67. (in book pdf) (in English)

Durukal, A., Lagier, F., Droumenq, J., 2003. The use of UHPFRC to reinforce a silo subjected to high temperature and abrasion. In: Concrete Structure Symposium, 2003, Singapore, (August), 6 pgs.

-Dutalloir, F., Thibaux, T., Cadoret, G., Birelli, G., 1998. Un nouveau beton tres hautes performances: le BSI – Premiere application industrielle/B.S.I.: A new, very high performance concrete. Initial industrial application. La technique francaise du Beton, AFPC-AFREM, XIII congres de la FIP, Amsterdam, pp. 25-32.

— E —

+El-Dieb, A.S., 2009. Mechanical, durability and microstructural characteristics of ultra-high-strength self-compacting concrete incorporating steel fibers. Materials and Design 30(10), pp. 4286-4292.

+El-Hacha, R., Abdelazeem, H., Cariaga, I., 2009. Performance of UHPC crossarms for high voltage transmission lines under sustained loading and severe environmental conditions. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.2.6, 13 pgs.

-El-Hacha, R., Abdelazeem, H., Cariaga, I., 2010. Effect of casting method and shear span-to-depth ratio on the behaviour of ultra-high performance concrete cross arms for high voltage transmission lines. Engineering Structures 32(8), pp. 2210-2220.

Elfgren, L., Jonasson, J.-E., Ronin, V., 2004. High performance concretes with energetically modified cement (EMC). In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 93-103.

-Elmahdy, A., El-Hacha, R., Shrive, N., 2008. Flexural behavior of hybrid composite girders for bridge construction. In: Proceedings of the ACI Spring Convention – FRP Stay-in-Place Forms for Concrete Structures, 31 March 2008, Los Angeles, CA, ACI –SP257, pp. 15-32.

+Elmahdy, A., El-Hacha, R., Shrive, N., Perry, V., 2009. Structural evaluation of hybrid FRP-UHPC bridge girders. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.2.7, 10 pgs.

+Elmenshawi, A., Brown, T., 2010. Hysteretic energy and damping capacity of flexural elements constructed with different concrete strengths. Engineering Structures 32(1), pp. 297-305.

+Empelmann, M., Teutsch, M., Steven, G., 2008. Improvement of the post fracture behaviour of UHPC by fibres. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 177-184. (in book pdf)

+Empelmann, M., Teutsch, M., Steven, G., 2008. Load-bearing behaviour of centrically loaded UHPFRC-columns. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 521-528. (in book pdf)

+Empelmann, M., Müller, C., 2009. Precast columns - New possibilities of concrete technology (Fertigteil-Stützen - Neue betontechnologische Möglichkeiten). Betonwerk und Fertigteil-Technik/(Concrete Plant and Precast Technology 75(10), pp. 4-12. (in English and German) (Muller)

+Empelmann, M., Müller, C., 2010. Concrete columns - New possibilities from NPC up to UHPC. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 413, 10 pgs. (Muller)

-Empelmann, M., Schmidt, H., Teutsch, M., 2010. Alternative bewehrungen + moderne betone = innovative betonfertigteilträger (Alternative reinforcements + state-of-the-art concretes = innovative precast concrete beams). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 76(2), pp. 90-91. (in German)

+Eppers, S., Müller, C., 2008. Autogenous shrinkage strain of ultra-high-performance concrete (UHPC). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 433-441. (in book pdf) (Muller)

+Ertel, C., Grünberg, J., 2010. Triaxial fatigue behaviour of ultra high performance concrete (UHPC). In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 289, 10 pgs. (Grunberg)

+Étienne, D., Causse, M., Behloul, M., 2001. Conception et construction de la passerelle de la paix à Séoul (Design and building of Seoul Peace Footbridge). In : Proceedings of the Third International Arch Bridges Conference, September 2001, Paris, France, pp. 865-876. (in French) (Etienne)

+Ewert, J., Budelmann, H., Krauß, M., 2008. Heat of hydration and hardening of ultra high performance concrete (UHPC). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 409-416. (in book pdf) (KrauB)

— F —

+Faccio, J., Faccio, B., Rizzoizzo, R., Bastos, P., Soukef, M.A., Barth, F., 2003. The catedral da Sé, São Paulo, is clad all over. Concrete Engineering International 7(4), pp. 54-56.

+Fairbairn, E.M.R., Toledo-Filho, R.D., Formagini, S., Rosa, J.I., Battista, R.C., 2005. Experimental analysis and modeling of ultra high performance fiber reinforced concrete plates. In: Proceedings of the International RILEM Workshop on High Performance Fiber Reinforced Cementitious Composites (HPFRCC) in Structural Applications, 2005, Honolulu, Eds. G. Fischer, V.C. Li, pp. 295-302.

+Fairbairn, E.M.R., Filho, R.D.T., Battista, R.C., Brandão, J.H., Rosa, J.I., Formagini, S., 2006. Experimental and numerical analysis of UHPFRC plates and shells. In: Proceedings of the International Symposium on Measuring, Monitoring and Modeling Concrete Properties, July 2006, Alexandroupolis, Greece, Ed. M.S. Konsta-Gdoutos (Netherlands: Springer, 2006), pp. 49-58. (Brandao)

-Fang, Z., Liang, D., Jiang, T., 2006. Experimental investigation on the anchorage performance of CFRP tendon in different bond mediums. Tumu Gongcheng Xuebao/China Civil Engineering Journal 39(6), pp. 47-51. (in Chinese)

-Fang, Z., Jiang, T.-Y., Liang, D., 2007. Anchorage behavior of CFRP tendons in RPC. Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences 34(7), pp. 1-5. (in Chinese)

+Farhat, F.A., Nicolaides, D., Kanellopoulos, A., Karihaloo, B.L., 2007. High performance fibre-reinforced cementitious composite (CARDIFRC) – Performance and application to retrofitting. Engineering Fracture Mechanics 74, pp. 151-167.

+Farnam, Y., Shekarchi, M., Mirdamadi, A., 2008. Experimental investigation of impact behaviour of high strength fiber reinforced concrete panels. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 751-758. (in book pdf)

Febrillet, N., Kido, A., Ito, Y., Ishibashi, K., 2000. Strength and abrasion resistance of ultra-high strength steel fiber reinforced concrete. Concrete Research and Technology (Japan) 11(2), pp. 63-71.

Febrillet, N., Kido, A., Ito, Y., Ishibashi, K., 2000. Strength and abrasion resistance of ultra-high strength steel fiber reinforced concrete. Transactions of the Japan Concrete Institute, pp. 243-252.

+Fehling, E., Bunje, K., 2003. Ultra-Hochleistungsbeton – Grundlagen der Konstruktion und Bemessung. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 21-36. (in book pdf) (in German)

Fehling, E., Bunje, K., Bornemann, R., Schmidt, M., Teichmann, T., 2003. Diskussion der Zusammensetzung und der Eigenschaften von UHPC - Ultra-Hochfester Beton: Perspektive für die Betonfertigteil-industrie (Discussion of the composition and the properties of UHPC - Ultra-high performance concrete: Perspective for the precast concrete industry). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 69(3), pp. 16-29. (in German and English)

-Fehling, E., Bunje, K., Leutbecher, T., 2003. Bemessung fur Biegung und Querkraft bei Bauteilen aus UHPC. In: Ultrahochfester Beton, Innovationen im Bauwesen, Beitrage aus Praxis und Wissenschaft, Eds. G. Konig, K. Holschemacher, F. Dehn. Bauwerk-verlag, Leipzig, pp. 183-198.

Fehling, E., 2004. Tragwerke aus UHPC - Bemessung und Konstruktion (Structures made of UHPC – Design and construction). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 70(2), pp. 92-93. (in German and English)

Fehling, E., Bunje, K., Leutbecher, T., 2004. Design relevant properties of hardened ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 327-338.

Fehling, E., Bunje, K., Schmidt, M., Schreiber, W., 2004. Ultra high performance composite bridge across the River Fulda in Kassel – Conceptual design, design calculations and invitation to tender. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 69-75.

Fehling, E., Bunje, K., Schmidt, M., Tue, N.V., 2004. Ultra high performance composite bridge across the River Fulda in Kassel – Accompanying investigations according to the required agreement by the authorities. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 819-826.

+Fehling, E., Schreiber, W., Bunje, K., Schmidt, M., 2004. Brücke aus ultrahochfestem Beton in Kassel über die Fulda (UHPC bridge in Kassel crossing the Fulda River). Bauingenieur 79, pp. 350-356. (in German)

Fehling, E., 2005. Konstruieren von Tragwerken aus Ultra-Hochleistungsbeton - eine Herausforderung (Design of structures of ultra-high-performance concrete – a challenge). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 71(2), pp. 26-27. (in German and English)

+Fehling, E., Leutbecher, T., 2005. UHPC – Eine Herausforderung. In: Massivbau in ganzer Breite (Berlin: Springer, 2005), pp. 447-452.

+Fehling, E., Schmidt, M., Teichmann, T., Bunje, K., Bornemann, R., Middendorf, B., 2005. Entwicklung, Dauerhaftigkeit und Berechnung Ultrahochfester Betone (UHPC), Forschungsbericht, DFG FE 497/1-1. Schriftenreihe Baustoffe und Massivbau (Structural Materials and Engineering Series) 1(1) (Kassel, Germany: Kassel University Press, 2005), 132 pgs. (book pdf)

+Fehling, E., Bunje, K., Schmidt, M., Tue, N.V., Schreiber, W., Humburg, E., 2007. Design of the first hybrid UHPC-steel bridge across the river Fulda in Kassel, Germany. In: Proceedings of the IABSE Conference, 2007, Weimar 93, pp. 328-329.

+Fehling, E., Bunje, K., Schmidt, M., Schreiber, W., 2008. The “Gärtnerplatzbrücke” - Design of first hybrid UHPC-steel bridge across the river Fulda in Kassel, Germany. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 581-588. (in book pdf)

+Fehling, E., Leutbecher, T., Röder, F.-K., Stürwald, S., 2008. Structural behavior of UHPC under biaxial loading. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 569-576. (in book pdf) (Roder, Sturwald)

-Fehling, E., Leutbecher, T., Sturwald, S., 2008. Compression-tension-strength of ultra high performance concrete (UHPC) and ultra high performance fiber reinforced concrete (UHPFRC) in panel-shaped structural members. Research Report of the Chair of Structural Concrete, Faculty of Civil Engineering, University of Kassel.

+Fehling, E., Schmidt, M., Stürwald, S., 2008. Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany. Schriftenreihe Baustoffe und Massivbau (Structural Materials and Engineering Series) 10(10) (Kassel, Germany: University of Kassel Press, 2008), 920 pgs. (Sturwald)

+Fehling, E., Bunje, K., Schmidt, M., 2009. Gärtnerplatz-bridge over River Fulda in Kassel - Multispan hybrid UHPC - Steel Bridge. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.1.2, 9 pgs.

+Fehling, E., Leutbecher, T., Stürwald, S., 2010. Structural behavior of ultra high performance concrete reinforced with steel fibers and rebars. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 25, 10 pgs. (Sturwald)

+Felekoglu, B., 2009. A new approach to the characterisation of particle shape and surface properties of powders employed in concrete industry. Construction and Building Materials 23(2), pp. 1154-1162.

Felicetti, R., Gambarova, P.G., Sora, M.P.N., Khoury, G.A., 2000. Mechanical behaviour of HPC and UHPC in direct tension at high temperature and after cooling. In: Proceedings of the Fifth RILEM Symposium on Fiber-Reinforced Concretes (FRC), 13-15 September 2000, Lyon, France, Eds. P. Rossi, G. Chanvillard (Cachan: RILEM, 2000), pp. 749-758.

Feng, H., Zhengyu, H., 2001. The effect of acidic solutions on the strength of reactive powder concrete. In: Proceedings of the Third International Conference on Concrete Under Severe Conditions (CONSEC '01), 18-20 June 2001, Vancouver, BC, Canada, Eds. N. Banthia, K. Sakai, O.E. Gjørv (Vancouver, BC, Canada: University of British Columbia, 2001), pp. 1319-1325.

Feng, X., Deng, L.-P., Cao, Z.-L., Huang, L.-D, 2006. Static loading investigation on well cover of reactive powder concrete. Key Engineering Materials, Environmental Ecology and Technology of Concrete 302-303, pp. 556-560.

Ferenc, S., 2006. UHPC betonból készített szerkezetek. Beton 14(6), pp. 2-6.

+Ference, xxxx. UHPC, 1 pg. (in Hungarian)

Fernández, C., XXXX. Concretos de ultra alto desempeno technologia y aplicaciones. Universidad de Costa Rica, Departamento de Ingenieria Civil. Web2007 Carlos.fernandezc@hocim.com (2 versions) (Fernandez)

-Ferrier, E., Labossìre, P., Neale, K.W., 2010. Mechanical behavior of an innovative hybrid beam made of glulam and ultrahigh-performance concrete reinforced with FRP or steel. Journal of Composites for Construction 14(2), pp. 217-223.

Feylessoufi, A., Villiéras, F., Michot, L.J., De Donato, P., Cases, J.M., Richard, P., 1996. Water environment and nanostructural network in a reactive powder concrete. Cement and Concrete Composites 18(1), pp. 23-29. (Villieras)

Feylessoufi, A., Crespin, M., Dion, P., Bergaya, F., Van Damme, H., Richard, P., 1997. Controlled rate thermal treatment of reactive powder concretes. Advanced Cement Based Materials 6(1), pp. 21-27.

Feylessoufi, A., Tenoudji, F.C., Morin, V., Richard, P., 2001. Early ages shrinkage mechanisms of ultra-high-performance cement-based materials. Cement and Concrete Research 31(11), pp. 1573-1579.

+FHWA-DOT, 2010. Highways for Life – Full depth ultra high performance concrete (UHPC) waffle bridge panels. 4 pgs. http://www.fhwa.dot.gov/hfl/partnerships/coreslb/openhouse_coreslab.cfm

+FHWA-DOT, 2010. Highways for Life – Full depth ultra high performance concrete (UHPC) waffle bridge panels – Abbreviated work plan. 5 pgs. http://www.fhwa.dot.gov/hfl/partnerships/coreslb/openhouse_coreslab.cfm

+Fitik, B., Niedermeier, R., Zilch, K., 2008. Fatigue behaviour of ultra high-performance concrete under cyclic stress reversal loading. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 529-536. (in book pdf)

+Fitik, B., Niedermeier, R., Zilch, K., 2010. Fatigue behaviour of ultra-high performance concrete under cyclic stress reversal loading. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 20, 10 pgs.

+Flint, M., Grünewald, S., Coenders, J., 2009. Ant colony optimisation for ultra-high performance concrete structures. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper P1, 13 pgs. (Grunewald)

-Formagini, S., 2005. Mix design and mechanical characterization of ultra high performance fiber reinforced concrete. PhD Thesis, COPPE/UFRJ, Rio de Janeiro, Brazil. (in Portuguese)

+Formagini, S., Toledo-Filho, R.D., Fairbairn, E.M.R., 2005. Mix design and mechanical characterization of an ultra high performance fiber reinforced cement composite (UHPFRCC). In: Proceedings of the International RILEM Workshop on High Performance Fiber Reinforced cementitious composites (HPFRCC) in Structural Applications, Honolulu, Eds. G. Fischer, V.C. Li, pp. 333-341.

-Fontana, P., Lehmann, C., Müller, U., Meng, B., 2010. Reactivity of Mineral Additions in Autoclaved UHPC. In: Proceedings of the International RILEM Conference on Material Science (pro077), Ed. W. Brameshuber, 9 pgs.

+Forquin, P., Hild, F., 2008. Dynamic fragmentation of an ultrahigh-strength concrete during edge-on impact tests. Journal of Engineering Mechanics 134(4), pp. 302-315.

+Forquin, P., Arias, A., Zaera, R., 2008. Role of porosity in controlling the mechanical and impact behaviours of cement-based materials. International Journal of Impact Engineering 35, pp. 133-146.

+Forsyth, T., 2006. Durable Concrete. Concrete 40 (7), 24-25.

Fortner, B., 2001. FHWA gives superior marks to concrete bridge girder. Civil Engineering Magazine (October), pg. 17.

+Francisco, P., Benboudjema, F., Rougeau, P., Torrenti, J.-M., 2009. Ultra high performance concrete for prestressed elements - Interest of creep prediction. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.2.1, 7 pgs.

+Francisco, P., Benboudjema, F., Rougeau, P., Torrenti, J.-M., Rimlinger, S., 2010. Prediction of ultra high performance concrete creep and shrinkage - The role of heat treatment. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 219, 8 pgs.

+Franke, L., Deckelmann, G., Schmidt, H., 2008. Behaviour of ultra high-performance concrete with respect to chemical attack. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 453-460. (in book pdf)

+Freisinger, S., Wisner, G., Krelaus, R., Schmidt, M., Boehm, S., Dilger, K., 2008. Structural and semi-structural bonding of UHPC by modifying the surface and close to surface layers. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 275-282. (in book pdf)

-Freytag, B., 2004. Glass-concrete composite technology. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE) 14(2), pp. 111-117.

Freytag, B., Juhart, J., Sparowitz, L., Baumgartner, E., 2004. The use of UHPC in composites – Ideas and realisations. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 559-571.

+Freytag, B., Reichel, M., Sparowitz, L., Santner, G., Heinzle, G., 2009. Großversuch WILD-Brücke - versuchsgestützte Bemessung einer UHPC-Bogenbrücke (Full-scale experiment bridge WILD - Design of an UHPC arch bridge based on experiments. Beton- und Stahlbetonbau 104(3), pp. 134-144. (in German)

+Freytag, B., Sparowitz, L., Reichel, M., Juhart, J., xxxx. WILD-Brücke – UHPC in der Praxis als Ergebnis der Forschung. Technische Universität Grax – Labor für Konstruktiven Ingenieurbau – Institut für Betonbau, 2 pgs.

+Fritz, C., Naaman, A.E., Reinhardt, H.W., 1991. SIFCON matrix in RC beams. In: Proceedings of the First International Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC), 23-26 June, Mainz, Germany, pp. 518-528.

-Fujikake, K., Uebayashi, K., Ohno, T., Shimoyama, Y., Katagiri, M., 2002. Dynamic properties of steel fiber reinforced mortar under high rates of loadings and triaxial stress states. In: Proceedings of the Seventh International Conference on Structure under Shock and Impact, Montreal, N. Jones, C.A. Brebbia , A.M. Rajendran, Eds., pp. 437-446.

+Fujikake, K., Senga, T., Ueda, N., Ohno, T., Katagiri, M., 2006. Effects of strain rate on tensile behavior of reactive powder concrete. Journal of Advanced Concrete Technology 4(1), pp. 79-84.

+Fujikake, K., Senga, T., Ueda, N., Ohno, T., Katagiri, M., 2006. Nonlinear analysis for reactive powder concrete beams under rapid flexural loadings. Journal of Advanced Concrete Technology 4(1), pp. 85-97.

+Fujikake, K., Senga, T., Ueda, N., Ohno, T., Katagiri, M., 2006. Study on impact response of reactive powder concrete beam and its analytical model. Journal of Advanced Concrete Technology 4(1), pp. 99-108.

-Fukuda, H., 1998. Influence of pressure and mix proportions on the properties of ultra-high strength concrete made by hot-press compaction. MS Thesis, Department of Civil Engineering, Saga University.

Fukuura, N., Tanaka, Y., Kano, K., 2005. Numerical evaluation on flexure and shear behavior of ultra high performance fiber-reinforced concrete. Doboku Gakkai Ronbunshu/Journal of Materials, Concrete Structures and Pavements 68(795), pp. 81-93. (in Japanese)

-Fukuura, N., Tanaka, Y., Zhao, W., Tsuka, T., Kano, K., Hyodo, H.O.L., 2005. Experimental study on flexure and shear behavior of ultra high performance fiber-reinforced concrete. Doboku Gakkai ronbunshu (Journal of Structural Mechanics and earthquake Engineering 1(795), pp. 67-80.

— G —

-Ganz, H.-R., Adeline, R., 1997. Mini anchorages for reactive powder concrete. In: Proceedings of the International Conference on New Technologies in Structural Engineering, July 1997, Lisbon.

Ganz, H.R., Behloul, M., 2003. DUCTAL® Fußgängerbrücke in Seoul, Korea (DUCTAL® footbridge in Seoul, Korea). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 69(2), pp. 18-20. (in German and English)

-Gao, R., Chenggen, L., Stroeven, P., 2003. Reactive powder concrete box girder for high –speed railway bridges. In: Proceedings of the IABSE Symposium, August 2003, Antswerpen, Belgium, pp. 27-29.

-Gao, R., An, M.Z., 2002. Constitutes and production of RPC200, Research Report, Northern Jiaotong University, Beijing, China.

Gao, R., Stroeven, P., Hendriks, C.F., 2005. Mechanical properties of reactive powder concrete beams. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-79 II, pp. 1237-1252.

Gao, R., Liu, Z.-M., Zhang, L.-Q., Stroeven, P., 2006. Static properties of plain reactive powder concrete beams. Key Engineering Materials, Environmental Ecology and Technology of Concrete 302-303, pp. 521-527.

-Gao, S., 2007. Application of RPC in railway prestressed prefabricated bridges. Beton Chinese Edition – Ready-mixed Concrete 3, p. ~20.

+Garas, V.Y., 2009. Multi-scale investigation of tensile creep of ultra-high performance concrete for bridge applications. PhD Dissertation, Georgia Institute of Technology, 291 pgs.

+Garas, V.Y., Jayapalan, A.R., Kahn, L.F., Kurtis, K.E., 2009. Multi-scale investigation of the effect of thermal treatment on the tensile creep of ultra-high performance concrete: Preliminary assessment. International Journal of Materials and Structural Integrity 3(2-3), pp. 187-200.

+Garas, V.Y., Kahn, L.F., Kurtis, K.E., 2009. Short-term tensile creep and shrinkage of ultra-high performance concrete. Cement and Concrete Composites 31(3), pp. 147-152.

-Garas, V., Kahn, L., Kurtis, K., 2010. Tensile creep test of fiber-reinforced ultra-high performance concrete. Journal of Testing and Evaluation 38(6), pp. ?.

+Garrecht, H., Baumert, C., 2009. Ultra-high performance concrete at the precast plant - Is a low-cost retrofit of conventional mixing units with high-tech drives and an adjusted mixing pattern possible? (Ultrahochfester Beton im Fertigteilwerk - Lassen sich mit Hightech-Antrieb und angepasstem Mischregime konventionelle Mischanlagen kostengünstig aufrüsten?) Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(2), pp. 20-22. (in English and German)

+Gatty, L., Bonnamy, S., Feylessoufi, A., Van Damme, H., Richard, P., 1998. Silica fume distribution and reactivity in reactive powder concretes. In: Proceedings of the Sixth CANMET/ACI/JCI International Conference on Fly Ash, Silica Fume, Slag and Natural Pozzolans in Concrete, 1998, Bangkok, Thailand, Ed. V.M. Malhotra (Farmington Hills, MI, USA: American Concrete Institute, 1998) ACI SP178-48 2, pp. 931-953.

Gatty, L., Bonnamy, S., Feylessoufi, A., Clinard, C., Richard, P., Van Damme, H., 2001. A transmission electron microscopy study of interfaces and matrix homogeneity in ultra-high-performance cement-based materials. Journal of Materials Science 36(16), pp. 4013-4026.

+Gazon, G., 2009. MuCEM - Musée des civilisations Europe Mediterranée. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 7.1, 4 pgs. (in French)

-Ge, T., Pan, Y., Tan, K., Wang, M., 2007. Study on resistance of reactive powder concrete to impact. Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering 26(1), pp. 3553-3557. (in Chinese)

-Geisenhanslucke, C., Schmidt, M., Fehling, E., Teichmann, T., 2003. Ultrahochfester und selbstverdichtender Beton – Ergebnis optimal dichter Kornpackunge. In: IBAUSIL.

Geisenhanslüke, C., Schmidt, M., 2004. Methods for modelling and calculation of high density packing for cement and fillers in UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 303-312. (Geisenhansluke)

-Geisenhansluke, C., Schmidt, M., 2004. Optimierung der Packungsdichte des Feinstkorns bei Ultra-Hochleistungs- und Selbstverdichtendem Beton. Beton, to be published.

-Geist, G., 2004. MIT Optimized Ductal Bridge Girder Castings. Internal Document from Lafarge.

+Gerlicher, T., Heinz, D., Urbonas, L., 2008. Effect of finely ground blast furnace slag on the properties of fresh and hardened UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 367-374. (in book pdf)

+Ghoneim, G., El-Hacha, R., Carson, G., Zakariasen, D., 2010. Precast ultra high performance fibre reinforced concrete replaces stone and granite on building façade. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 648, 15 pgs.

+Gilbert, R.I., Gowripalan, N., Cavill, B., 2000. On the design of precast, prestressed reactive powder concrete (Ductal) girders. In: Proceedings of the Fourth Austroads Bridge Engineering Conference, 29 November-1 December 2000, Adelaide, South Australia 3, pp. 313-324.

Gilliland, S.K., 1996. Reactive powder concrete (RPC), a new material for prestressed concrete bridge girders. In: Proceedings of the Fourteenth Structures Congress, Building an International Community of Structural Engineers, 15-18 April 1996, Chicago, Illinois, USA, Eds. S.K. Ghosh, J. Mohammadi (New York: American Society of Civil Engineers, 1996) 1, pp. 125-132.

+Glaubitt, A., Middendorf, B., 2008. Non-destructive ultrasonic testing methods for quality control of UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 319-326. (in book pdf)

+Goldbach, U., Stehling, S., 2008. Precasting of UHPC elements. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 589-595. (in book pdf)

-Gouda, G.R., 1972. Very high strengths in cement pastes prepared by high pressure techniques including hot-pressing. M.S. Thesis, The Pennsylvania State University.

+Gouda, G.R., Roy, D.M., 1975. Properties of hot-pressed calcium aluminate cements. Cement and Concrete Research 5(6), pp. 551-564.

-Gouda, G.R., 1975. Preparation and characterization of very high strength hot-pressed cement pastes. PhD Thesis, The Pennsylvania Stat University.

+Gould, P., 2007. Packing limits govern cement's strength – Mechanical properties. Nanotoday 2(2), pg. 2.

+Gowripalan, N., Dumitru, I., Smorchevsky, G., Marks, R., D'Souza, B., 1999. Development of modified reactive powder concrete (RPC) for precast concrete applications in Australia. In: Proceedings of the Nineteenth Biennial Conference of the Concrete Institute of Australia, 5-7 May 1999, Sydney, Australia, pp. 105-112.

Gowripalan, N., Gilbert, R.I., 2000. Design guidelines for RPC prestressed concrete beams. The University of New South Wales – School of Civil and Environmental Engineering, web2007, 51 pgs.

+Gowripalan, N., Watters, R., Gilbert, R.I., Cavill, B., 2003. Reactive powder concrete (RPC) for precast structural concrete – Research and development in Australia. In: Proceedings of the Twenty-first Biennial Conference of the Concrete Institute of Australia - Concrete in the Third Millennium, 17-19 July 2003, Brisbane, Australia, pp. 99-108.

Granger, S., Loukili, A., Pijaudier-Cabot, G., Chanvillard, G., 2005. Mechanical characterization of the self-healing effect of cracks in ultra high performance concrete (UHPC). In: Proceedings of the International Conference on Construction Materials: Performance, Innovations, and Structural Implications, 2005, Vancouver, B.C., Ed. N. Banthia (Vancouver, B.C.: The University of British Columbia, 2005), 9 pgs.

Granger, S., 2006. Caractérisation expérimentale du phénomène d'auto-cicatrisation des fissures dans les bétons. XXIVèmes Rencontres Universitaires de Génie Civil 2006 – Prix Jeunes Chercheurs, 9 pgs. (S Granger – augc.asso.fr website 2007)

+Granger, S., Loukili, A., Pijaudier-Cabot, G., Chanvillard, G., 2007. Experimental characterization of the self-healing of cracks in an ultra high performance cementitious materials: Mechanical tests and acoustic emission analysis. Cement and Concrete Research 37, pp. 519-527.

+Granger, S., Pijaudier Cabot, G., Loukili, A., Marlot, D., Lenain, J.C., 2009. Monitoring of cracking and healing in an ultra high performance cementitious material using the time reversal technique. Cement and Concrete Research 39(4), pp. 296-302.

+Gray, M.N., Shenton, B.S., 1998. Design and development of low-heat, high-performance, reactive powder concrete. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 203-230.

Graybeal, B.A., Hartmann, J.L., 2003. Strength and durability of ultra-high performance concrete. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 20 pgs.

Graybeal, B.A., Hartmann, J.L., 2003. Ultra-high performance concrete material properties. Paper submitted for presentation at the 2003 Transportation research Board Conference, November 15, 2002 TRB 2003 Annual Meeting, 14 pgs.

+Graybeal, B.A., 2004. Fabrication of an optimized UHPC bridge. In: Proceedings of the Precast/Prestressed Concrete Institute (PCI) National Bridge Conference, October 2004, Atlanta, GA, 10 pgs.

Graybeal, B., Hartmann, J., Perry, V., 2004. Ultra-high performance concrete for highway bridges. In: Proceedings of the Symposium on Concrete Structures: the Challenge of Creativity, 26-28 April 2004, Avignon, France, AFGC/fib, 6 pgs.

+Graybeal, B.A., Hartmann, J.L., 2004. Ultra-high performance concrete for prestressed concrete bridge girders, In: Proceedings of the CBC, 8pgs.

Graybeal, B.A., 2005. Characterization of the behavior of ultra-high performance concrete. PhD Dissertation - Department of Civil and Environmental Engineering, University of Maryland, 377 pgs.

Graybeal, B.A., Hartmann, J.L., 2005. Construction of an optimized UHPC vehicle bridge. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-70 II, pp. 1109-1118.

+Graybeal, B.A., Hartmann, J.L., 2005. Experimental testing of UHPC optimized bridge girders: Early results. In: Proceedings of the Precast/Prestressed Concrete Institute (PCI) National Bridge Conference, Palm Springs, CA, 10 pgs.

Graybeal, B.A., 2006. Material property characterization of ultra-high performance concrete. Publication No. FHWA-HRT-06-103, US Department of Transportation, Federal Highway Administration, Turner-Fairbank Highway Research Center, McLean, VA. (August), 188 pgs.

+Graybeal, B.A., 2006. Structural behavior of ultra-high performance concrete prestressed I-girders. U.S. Department of Transportation, Federal Highway Administration, Turner-Fairbank Highway Research Center FHWA-HRT-06-115, 106 pgs.

+Graybeal, B., 2007. Analysis of an ultra-high performance concrete two-way ribbed bridge deck slab. USDOT-FHA Techbrief, FHWA-HRT-07-055, 4 pgs.

Graybeal, B.A., 2007. Compressive behavior of ultra-high-performance fiber-reinforced concrete. ACI Materials Journal, pp. 146-152.

+Graybeal, B., Tanesi, J., 2007. Durability of an ultrahigh-performance concrete. Journal of Materials in Civil Engineering 19(10), pp. 848-854.

+Graybeal, B., 2008. Flexural behavior of an ultrahigh-performance concrete I-girder. Journal of Bridge Engineering 13(6), pp. 602-610.

+Graybeal, B., 2008. UHPC in the U.S. highway transportation system. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 11-17. (in book pdf)

+Graybeal, B., Davis, M., 2008. Cylinder or cube: Strength testing of 80 to 200 MPa (11.6 to 29 ksi) ultra-high-performance fiber-reinforced concrete. ACI Materials Journal 105(6), pp. 603-609.

+Graybeal, B., 2009. UHPC in the U.S. Highway Infrastructure. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.2.2, 8 pgs.

+Graybeal, B.A., 2010. Design, fabrication, and testing of a 2nd generation ultra-high performance concrete PI-girder. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 94, 14 pgs.

-Greiner, S., 2006. Zum Tragverhalten von dunnen Bauteilen aus ultrahochfestem Faserfeinfornbeton. Dissertatioin. Universitat Stuttgart, Gottingen, Cuvillier Verlag.

+Greiner, S., 2007. Tragverhalten von dünnen Bauteilen aus ultrahochfestem Faserfeinkornbeton. Beton- und Stahlbetonbau 102(3), pp. 154-162. (in German)

-Greunz, G., 2000. Experimentelle untersuchungen zur druckfestigkeit van ultrahochfesten betonen mit Basaltzuschlag. Diplomarbeit am Institut fur Betonbau, Graz University of Technology.

Groeneweg, T.W., 2007. Shield driven tunnels in ultra high strength concrete. MS Thesis – Department of Civil Engineering, Delft University of Technology (Gemeentewerken Rotterdam (Public Works Rotterdam)), 141 pgs.

+Grünberg, J., Lohaus, L., Ertel, C., Wefer, M., 2007. Mehraxiales mechanisches Ermüdungsmodell von Ultra-Hochfestem Beton – Experimentelle und analytische Untersuchungen. Beton- und Stahlbetonbau 102(6), pp. 388-398. (in German) (Grunberg)

+Grünberg, J., Lohaus, L., Ertel, C., Wefer, M., 2008. Multi-axial and fatigue behaviour of ultra-high-performance concrete (UHPC). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 485-492. (in book pdf) (Grunberg)

+Grünberg, J., Ertel, C., Lohaus, L., Wefer, M., Curback, M., Speck K., Niedermeier, R., Fitik, B., 2010. Failure models for ultra high performance concrete (UHPC). In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 158, 11 pgs. (Grunberg)

+Grünewald, S., Van Loenhout, P., 2008. Application of ultra high performance concrete outstanding projects from hurks beton (Einsatz von sehr hochfestem Beton Herausragende Objekte aus dem Hause Hurks Beton). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 74(11), pp. 26-34. (in English and German) (Grunewald)

+Grünewald, S., Weyns, R., Dekkers, J., 2009. Experience with prefabricated UHPFRC in the Netherlands. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.2.1, 9 pgs. (Grunewald)

+Guerrini, G.L., 2000. Applications of high-performance fiber-reinforced cement-based composites. Applied Composite Materials 7(2), pp. 195-207.

Guo, X.-Y., Fang K.-H., 2002. Mix ratio optimization on high fluidity and super high-strength concrete. Concrete 7, pp. 36-38. (in Chinese)

+Gupta, A., Mendis, P., Ngo, T., Rebentrost, M., 2006. Modelling localised response of steel fibre reinforced ultra high-strength concrete panels under high velocity impact. In: Proceedings of the Australasian Conference of Materials and Structural Mechanics - Progress in Mechanics of Structures and Materials, Ed., Moss, Dhakal, 2007, Christchurch, New Zealand, pp. 761-767.

Güvensoy, G., Bayramov, F., Liki, A., Sengül, C., Tasdemir, M.A., Kocatürk, A.N., Yerlikaya, M., 2004. Mechanical behavior of high performance steel fiber reinforced cementitious composites under cyclic loading condition. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 649-660. (Guvensoy, Sengul, Kocaturk)

— H —

-Habel, K., 2004. Structural behaviour of composite elements combining ultra-high performance fibre reinforced concretes (UHPFRC) and reinforced concrete. Doctoral thesis 3036. Ecole Polytechnique Federale de Lausanne (EPFL) (Swiss Federal Institute of Technology), Lausanne, Switzerland, 195 pgs.

-Habel, K., 2004. Structural behaviour of "UHPFRC-concrete" elements. Test report, MCS99.04. Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland.

-Habel, K., Charron, J.P., Denarie, E., 2004. Preliminary tests on bonding of reinforcement bars in UHPFRC. Internal report MCS 99.04-2.

Habel, K., Denarié, E., Brühwiler, E., 2004. Structural response of composite "UHPFRC-concrete" members under bending. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 389-399. (Denarie, Bruhwiler)

Habel, K., Denarié, E., Brühwiler, E., 2005. Bauteile aus ultrahockleistungsfähigem Faserbetwon (UHPFRC) und tradiditionellem Stahlbeton – Eine innovative Lösung zur Instandsetzung und Veränderung bestehender Betonbauten. Beton- und Stahlbetonbau 100(2), pp. 124-131. (Denarie, Bruhwiler)

Habel, K., Charron, J.-P., Denarié, E., Brühwiler, E., 2006. Autogenous deformations and viscoelasticity of UHPFRC in structures. Part I: Experimental results. Magazine of Concrete Research 58(3), pp. 135-145. (Denarie, Bruhwiler)

Habel, K., Charron, J.-P., Denarié, E., Brühwiler, E., 2006. Autogenous deformations and viscoelasticity of UHPFRC in structures. Part II: Numerical modelling. Magazine of Concrete Research 58(3), pp. 147-156. (Denarie, Bruhwiler)

Habel, K., Denarié, E., Brühwiler, E., 2006. Structural response of elements combining ultrahigh-performance fiber-reinforced concretes and reinforced concrete. ASCE Journal of Structural Engineering 132(11), pp. 1793-1800. (Denarie, Bruhwiler)

+Habel, K., Denarié, E., Brühwiler, E., 2006. Time dependent behavior of elements combining ultra-high performance fiber reinforced concretes (UHPFRC) and reinforced concrete. Materials and Structures 39, pp. 557-569. (Denarie, Bruhwiler)

-Habel, K., Gauvreau, T., 2006. Impact behavior of concrete bridge deck slabs with composite ultra-high performance fiber reinforced concrete (UHPFRC) overlay. In: Proceedings of the Seventh International Conference on Short and Medium Span Bridges, 23-25 August 2006, Montreal, Canada.

+Habel, K., Gauvreau, D.P., 2006. Static and impact behaviour of concrete members rehabilitated with UHPFRC overlay. In: Proceedings of the Second International RILEM Symposium on Advances in Concrete through Science and Engineering, 11-13 September 2006, Quebec City, Canada, Eds. J. Marchand, B. Bissonnette, R. Gagne, M. Jolin, F. Paradis, (RILEM Publications SARL), 12 pgs.

Habel, K., Viviani, M., Denarié, E., Brühwiler, E., 2006. Development of the mechanical properties of an ultra-high performance fiber reinforced concrete (UHPFRC). Cement and Concrete Research 36(7), pp. 1362-1370. (Denarie, Bruhwiler)

Habel, K., Denarié, E., Brühwiler, E., 2007. Experimental investigation of composite ultra-high-performance fiber-reinforced concrete and conventional concrete members. ACI Structural Journal 104(1), pp. 93-101. (Denarie, Bruhwiler)

+Habel, K., Charron, J.-P., Braike, S., Hooton, R.D., Gauvreau, P., Massicotte, B., 2008. Ultra-high performance fibre reinforced concrete mix design in central Canada. Canadian Journal of Civil Engineering 35, pp. 217-224.

+Habel, K., Gauvreau, P., 2008. Response of ultra-high performance fiber reinforced concrete (UHPFRC) to impact and static loading. Cement and Concrete Composites 30(10), pp. 938-946.

+Habel, K., Gauvreau, P., 2009. Behavior of reinforced and post tensioned concrete members with a UHPFRC overlay under impact loading. Journal of Structural Engineering 135(3), pp. 292-300.

+Hackman, L.E., Farrell, M.B., Dunham, O.O., 1992. Slurry infiltrated mat concrete (SIMCON). Concrete International 14(12), pp. 53-56.

Hackman, L.E., Farrell, M.B., Dunham, O.O., 1994. Ultra high performance reinforced concrete. In: Fiber Reinforced Concrete: Developments and Innovations, Eds. J.I. Daniel, S.P. Shah (Farmington Hills, MI. USA: American Concrete Institute, 1994) ACI SP-142-12, pp. 235-247.

Hajar, Z., Simon, A., Lecointre, D., Petitjean, J., 2003. Construction of the first road bridges made of ultra-high-performance concrete. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 18 pgs.

-Hajar, Z., Simon, A., Lecointre, D., Petetjean, J., 2003. Realization of the first road bridges made of ultra-high performance concrete. In: Proceedings of the Third PCI/FHWA International Symposium on High Performance Concrete and the Forty-ninth Annual PCI Convention, 19-22 October 2003, Orlando, Florida.

+Hajar, Z., Lecointre, D., Petitjean, J., Resplendino, J., Simon, A., 2004. Ultra-high-performance concretes: First recommendations and examples of applications. In: Proceedings of the fib Symposium on Concrete Structures: The Challenge of Creativity, 26-28 April 2004, Avignon, France, pp. 242-243.

+Hajar, Z., Simon, A., Thibaux, T., Wyniecki, P., 2004. Construction of an ultra high performance fibre-reinforced concrete thin-shell structure over the Milan Viaduct Toll Gates. In: Proceedings of the fib Symposium on Concrete Structures: the Challenge of Creativity, 26-28 April 2004, Avignon, France, pp. 236-237.

Hajar, Z., Lecointre, D., Simon, A., Petitjean, J., 2004. Design and construction of the world first ultra-high performance concrete road bridges. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 39-48.

+Hajar, Z., Novarin, M., Simon, A., Thibaux, T., Chanut, S., Sale, R., 2009. La Poutre ITE®, une alternative economique et durable aux poutrelles enrobees (The ITE UHPC girder - An economical and durable alternative to encased steel girders). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.2.3, 14 pgs. (in French)

+Hájek, P., Fiala, C., 2008. Environmentally optimized floor slabs using UHPC – Contribution to sustainable building. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 879-886. (in book pdf) (Hajek)

Haleerattanawattana, P., Limsuwan, E., 2004. Strength-based gradation of coarse aggregates for ultra-high-strength concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 239-249.

Hallgren, M., Balazs, P., 1999. Armerade balkar av högpresterande betong belastade med luftstötvåg. FOA – Försvarets Forskningsanstalt - Report, FOA – R-99-00983-311 – SE (January), 56 pgs. (in Swedish)

Hamblin, D., 2007. Iran's Invulnerable Bunkers? Web, 1pg.

-Hamza, A.M., Naaman, A.E., 1996. Bond characteristics of deformed reinforcing steel bars embedded in SIFCON. ACI Materials Journal 93(6), pp. 578-588.

+Hanchak, S.J., Forrestal, M.J., Young, E.R., Ehrgott, J.Q., 1992. Perforation of concrete slabs with 48 MPa (7 ksi) and 140 MPa (20 ksi) unconfined compressive strengths. International Journal of Impact Engineering 12(1), pp. 1-7.

+Hansen, L.P., Heshe, G., 2001. Static, fire and fatigue tests of ultra high-strength fibre reinforced concrete and ribbed bars. NCR 26, 21 pgs.

Hansson, H., 2003. A note on empirical formulas for the prediction of concrete penetration. FOI, Swedish Defence Research Agency Technical Report, FOI-R-0968-SE (November), Weapons and Protection, SE-147 25 Tumba, 19 pgs.

-Hao, W., Zhong, T., 2010. Experimental study and numerical analysis of the ductility of reactive powder concrete piers. Tumu Gongcheng Xuebao/China Civil Engineering Journal 43(6), pp. 82-86.(in Chinese)

-Hao, W.-X., Yan, G.-P., Zhong, T.-Y., An, M.-Z., Ji, W.-Y., 2009. Experimental study on the mechanical behavior of reactive powder concrete piers with hollow cross-sections subjected to cyclic loading. Tiedao Xuebao/Journal of the China Railway Society 31(5), pp. 60-64. (in Chinese)

+Harish, K.V., Dattatreya, J.K., Sabitha, D., Neelamegam, M., 2008. Role of ingredients and of curing regime in ultra high strength powder concretes. Journal of Structural Engineering 34(6), pp. 421-428.

Harris, D.K., 2004. Characterization of punching shear capacity of thin UHPC plates. MS Thesis - Virginia Polytechnic Institute and State University, 146 pgs.

Harris, D.K., Roberts-Wollmann, C.L., 2005. Characterization of the punching shear capacity of thin ultra-high performance concrete slabs. Technical Report VTRC 05-CR26, Virginia Transportation Research Council, Charlottesville, VA, (June), 65 pgs.

+Harris, D.K., Roberts-Wollmann, C.L., 2008. Characterization of punching shear capacity of thin ultra-high performance concrete slabs. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 727-734. (in book pdf)

-Harryson, P., 2010. Bond between fibre reinforced concrete and fibre reinforced polymers - Experimental study. Materials and Structures/Materiaux et Constructions (in press), 13 pgs.

-Hartmann, J., Graybeal, B., 2001. Testing of ultra-high performance concrete girders. Presented at the PCI Annual Convention, October, Reno, NV.

+Hartmann, J., Graybeal, B., 2002. Testing of ultra-high-performance concrete girders. PCI Journal 47(1), pp. 148-149.

-Hartmann, J., Graybeal, B., Perry, V., Durukal, A., 2003. Early results of the FHWA UHPC Research program. In: Proceedings of the International Conference on Advance Materials for Construction of Bridges, Buildings and Other Structures, Davos, Switzerland.

Hartmann, J., Graybeal, B., 2005. Abandon the usual – Ultra-high-performance concrete proves stronger – and stranger – than the conventional. Roads and Bridges 43(6), pp. 32-37.

Hassan, A., Kawakami, M., 2005. Steel-free composite slabs made of reactive powder materials and fiber-reinforced concrete. ACI Structural Journal 102(5), pp. 709-718.

-Hassan, W., 1999. Optimisation of RPC mixes, Undergraduate Thesis, UNSW.

+Hauser, S., Wörner, J.D., 1999. DUCON, a durable overlay. In: Proceedings of the Third International Workshop on High Performance Fiber Reinforced Cement Composites, 16-19 May 1999, Mainz, Germany, pp. 603-615.

-Hauser, S., Abatiell, L., 2008. Light and thin blast protection. Structure Magazine (April).

+He, F., Huang, Z.Y., 2000. Study on the preparation of 200-300 MPa reactive powder concrete. Hunningtu Yu Shuini Zhipin (China Concrete and Cement Products) 4, pp. 3-7. (in Chinese)

-He, F., Zhengyu, H., 2000. Study on effect of curing schedule on the strength of RPC. Cement 2, pp. 31-34. (in Chinese)

He, H.-C., Tang, D.-G., Chen, X.-X., Chen, M.-F., Wei, B.-L., 2004. Experimental study and analyse on penetration effect for crushed corundum concrete against projectile. Explosion and Shock Waves 24(6), pp. 514-518. (in Chinese) (not UHPC/RPC, but of interest)

Hegger, J., Rauscher, S., Goralski, C., 2004. Push-out tests on headed studs embedded in UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 425-434.

Hegger, J., Tuchlinski, D., Kommer, B., 2004. Bond anchorage behavior and shear capacity of ultra high performance concrete beams. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 351-360.

Hegger, J., Rauscher, S., Goralski, C., 2005. Push-out tests on headed studs in high-strength concrete. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-48 II, pp. 769-785.

-Hegger, J., Rauscher, S., Voss, S., 2005. Shear carrying capability of fiber-reinforced UHPC. CCC°2005, 11-13 July 2005, Lyn/Frankreich, pp. 1173-1180.

Hegger, J., Kommer, B., Tuchlinski, D., 2006. Untersuchungen an Spannbetonträgern aus UHPC (Studies on prestressed concrete beams made from UHPC). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 72(1), pp. 14-20. (in German and English)

+Hegger, J., Rauscher, S., 2007. Shear connectors in steel fibre reinforced ultra high performance concrete. In: Proceedings of the Third International Conference on Steel and Composite Structures (ICSCS 07), 30 July 2007, Manchester, England, pp. 403-409.

+Hegger, J., Bertram, G., 2008. Anchorage behaviour of pretensioned strands in steel fiber reinforced UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 537-544. (in book pdf)

+Hegger, J., Bertram, G., 2008. Shear carrying capacity of steel fiber reinforced UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 513-520. (in book pdf)

+Hegger, J., Rauscher, S., 2008. UHPC in composite construction. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 545-552. (in book pdf)

+Hegger, J., Rauscher, S., Lange, J., Zell, M., 2008. Fiber orientation in ultra-high performance concrete. In: Proceedings of the Seventh RILEM International Symposium on Fibre Reinforced Concrete (BEFIB 2008), Ed. R. Gettu, (RILEM Publications SARL), pp. 191-199.

-Hegger, J., Bertram, G., Dreen, T., Horstmann, M., Roggendorf, T., 2009. Innovative Konzepte im Massivbau. Beton- und Stahlbetonbau 104(1), pp. 17-26. (in German)

-Hegger, J., Bertram, G., 2010. Verbundverhalten von vorgespannten litzen in UHPC teil 1: Versuche zur verbundfestigkeit und zur ubertragungslange (Bond behavior of prestressed strands in UHPC part 1: Tests on bond strength and transfer length). Beton- und Stahlbetonbau 105(6), pp. 379-389. (in German)

-Hegger, J., Bertram, G., 2010. Spannbetonbinder aus ultrahochfestem beton mit faserbewehrung. Experimentelle untersuchungen, praktische anwendung (Prestressed concrete girders of ultra-high-strength concrete with fiber reinforcement. Experimental investigations; application in practice). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast 76(2), pp. 104-105. (in German)

-Hegger, J., Tuchlinski, D., xxxx. Voruntersuchungen zum Tragverhalten von ultrahochfestem Beton. (unpublished).

+Heidrich, J., 2009. Experimentelle Untersuchungen zum Schubtragverhalten dünner Scheiben aus Ultrahochfestem Beton (Shear carrying capacity of ultra high performance concrete). Beton- und Stahlbetonbau 104(9), pp. 581-588. (in German)

+Heimann, J., Schuler, G., 2010. The implementation of full depth UHPC waffle bridge deck panels. Coreslab Structure (Omaha Inc. for FHWA – Highways for LIFE Technology Partnerships Program Phase 1 Final Report (DTFH61-09-G-00006), 72 pgs.

Heinz, D., Dehn, F., Urbonas, L., 2004. Fire resistance of ultra high performance concrete (UHPC) – Testing of laboratory samples and columns under load. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 703-715.

Heinz, D., Ludwig, H.-M., 2004. Heat treatment and the risk of DEF delayed ettringite formation in UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 717-730.

+Heinzle, G., Freytag, B., Linder, J., 2009. Rissbildung von biegebeanspruchten Bauteilen aus Ultrahochfestem Faserbeton (Crack formation of flexural members made of UHPFRC). Beton- und Stahlbetonbau 104(9), pp. 570-580. (in German)

+Hereil, P.-L., Buzaud, E., 2006. An analysis of the propagation of front shock in concrete. DYMAT2006, 6 pgs.

Hereil, P.-L., Buzaud, E., 2006. An analysis of the propagation of front shock in concrete. Journal of Physics IV France 134, pp. 133-138.

Herold, G., Müller, H.S., 2004. Measurement of porosity of ultra high strength fibre reinforced concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 685-694. (Muller)

+Herold, G., Scheydt, J.C., Müller, H.S., 2006. Development and durability of ultra high performance concrete (Entwicklung und Dauerhaftigkeit ultrahochfester Betone). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 72, pp. 4-14. (Muller)

-Heshe, G., 1988. Experimental research on compact reinforced composite (CRC) beams. Danish Society for Structure Science and Engineering 59(1), pp.1-80.

-Heshe, G., 1988. Experimental research on compact reinforced composite (CRC). (to be published in: Bygningsstatiske Meddelelser)

-Heshe, G., Nielsen, V.C., 1992. COMPRESIT Behaviour in Tension. Aalborg University Technical Report.

+Hirschi, T., Wombacher, F., 2008. Influence of different superplasticizers on UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 77-84. (in book pdf)

+Hjorth, L., 1983. Development and application of high-density cement-based materials. Philosophical Transactions of the Royal Society of London A310, pp. 167-173.

+Hofmann, P., Mitchell, D.R., Chusid, M., 2007. Toughened throughout – Micro-reinforced concrete gets blast resistance as its first assignment. Concrete International 29(12), pp. 40-44.

-Hollander, J., 2006. Technical feasibility study of a UHPC tied arch bridge. Thesis. Delft University of Technology and Ingenieursbureau Gemeentewerken Rotterdam.

-Holschemacher, K., Dehn, F., 2003. Ultrahochfester beton – Stand der technik und entwicklungsmoglichkeiten. Ultrahochfester Beton. Innovationen im Bauwesen, G. Konig, K. Holschemacher, F. Dehn, (eds.), (Berlin: Bauwerk Verlag, 2003), pp. 1-12. (in German).

Holschemacher, K., Klotz, S., 2003. Ultra high strength concrete under concentrated load. LACER (LEIPZIG Annual Civil Engineering Report) 8, pp. 231-242.

Holschemacher, K., Dehn, F., Klotz, S., Weiße, D., 2004. Ultra high strength concrete under concentrated loading. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 471-480. (Weibe)

-Holschemacher, K., WeiBe, D., 2004. Verbundverhalten von Betonstahl in UHFB. BetonWerk International 6, pp. 76-88.

Holschemacher, K., Weiße, D., Klotz, S., 2004. Bond of reinforcement in ultra high strength concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 375-387. (Weibe)

Holschemacher, K., Dehn, F., Klotz, S., Weiße, D., 2005. Experimental investigation on ultra high-strength concrete under concentrated loading. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-73 II, pp. 1145-1157. (Weibe)

Holschemacher, K., Weiße, D., 2005. Economic mix design ultra high-strength concrete. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-72 II, pp. 1133-1144. (Weibe)

Holschemacher, K., Weiße, D., Klotz, S., 2005. Bond of reinforcement in ultra high-strength concrete. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-34 I, pp. 513-528. (Weibe)

+Homrich, J., Naaman, A., 1987. Stress-strain properties of SIFCON in compression. In: Proceedings of the Symposium on Fiber Reinforced Concrete: Properties and Applications, Eds. S.P. Shah, G.B. Batson (Detroit, MI, USA: American Concrete Institute, 1987) ACI SP-105-16, pp. 283-304.

-Hosotani, M., Musya, H., Abe, Y., Shinobu, S., 2004. Construction of Akakura Onsen Yukemuri Bridge – PC Pedestrian Bridge using of ultra high strength fiber reinforced concrete. Journal of Prestressed Concrete 46(3), pp. 16-23. (in Japanese)

+Houst, Y.F., Bowen, P., Perche, F., Kauppi, A., Borget, P., Galmiche, L., Le Meins, J.-F., Lafuma, F., Flatt, R.J., Schober, I., Banfill, P.F.G., Swift, D.S., Myrvold, B.O., Petersen, B.G., Reknes, K., 2008. Design and function of novel superplasticizers for more durable high performance concrete (superplast project). Cement and Concrete Research 38(10), pp.1197-1209.

-Hu, J., Huang, Z.-Y., Ma, N., 2009. Effects of EMC technology on the fluidity and strength of RPC. Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences 36(5), pp. 16-20. (in Chinese)

Huang, Y., Wang, B., Chen, W., Bi, Y., 2003. Influence of different steel fiber on the performance of reactive powder concrete. Jiefangjun Ligong Daxue Xuebao (Journal of PLA University of Science and Technology 4(5), pp. 64-67. (in Chinese)

-Huang, Z., Shen, P., 1993. Experimental study on 200 MPa ultra-high steel fiber concrete. Concrete 3, pp. 3-7. (in Chinese)

-Huang, Z.-Y., Hu, J., 2009. Preparation of cementitious materials with environment-protecting high performance. Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology) 40(5), pp. 1437-1443. (in Chinese)

Huh, S.-B., Byun, Y.-J., 2005. Sim-Yu pedestrian arch bridge, Seoul, Korea. Journal of the International Association for Bridge and Structural Engineering (IABSE) 15(1), pp. 32-34.

Huon, V., Maisonneuve, O., Wattrisse, B., Muracciole, J.M., 2001. Mise en évidence par granularité en lumière blanche de phénomènes de multilocalisation de la déformation pour les bétons de poudres réactives sollicetés en traction (Showing of multilocalisation strain phenomena occurring in reactive powder concrete during tensile tests by digital speckle images correlation in lighting white mode. Comptes Rendus de l'Academie des Sciences – Series IIB – Mechanics 329(12), pp. 897-900.

+Hwang, C.L., Hsieh, S.L., 2007. The effect of fly ash/slag on the property of reactive powder mortar designed by using Fuller's ideal curve and error function. Computers and Concrete 4(6), pp. 425-436.

— I —

+Ibrahimbegovic, A., Boulkertous, A., Davenne, L., Muhasilovic, M., Duhovnik, J., Pokrklic, A., 2009. Fire induced damage in structures and infrastructure: Analysis, testing and modeling. In: NATO Science for Peace and Security Series C: Environmental Security, Damage Assessment and Reconstruction after War or Natural Disaster, Eds. A. Ibrahimbegovic, M. Zlatar (Springer Science+Business Media B.V., 2009), pp. 309-329.

Ichinomiya, T., Hishiki, Y., Ohno, T., Morita, Y., Takada, K., 2005. Experimental study on mechanical properties of ultra-high-strength concrete with low-autogenous-shrinkage. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-86 II, pp. 1341-1352.

+Ichinomiya, T., Nagumo, H., 2010. A pedestrian bridge using ultra high strength fiber reinforced concrete with ettringite generation system - Riverside Senshu Connecting Bridge. In: National Report - Recent Works of Prestressed Concrete Structures, Third fib Congress, 29 May - 2 June 2010, Washington, DC, Japan Prestressed Concrete Engineering Association, pp. 173-176. (n English and Japanese)

Idorn, G.M., 2005. Innovation in concrete research – review and perspective. Cement and Concrete Research 35, pp. 3-10.

Idriss, J., XXXX. Appendix A: Ultra high performance concrete – Material analysis and applications. NGIC Assessment, 9 pgs. Web2007

Idriss, J., XXXX. Appendix B: Ultra high performance concrete – Material testing. NGIC Assessment, 15 pgs. Web2007

-Inenaga, E., Izumu, N., Kikuta, S., Hamada, S., Ishioka, T., Takahashi, K., Ueda, H., 2005. Study on behavior of reinforced concrete frame using ultra-high-strength fiber reinforced concrete. In: Summary of Technical Papers of Annual Meeting of the Architectural Institute of Japan C-2, pp. 183-184. (in Japanese)

Ionescu, I., Ispas, T., 2000. High performance composite materials for carrying out construction structures. In: Proceedings of the Sixth ASCCS International Conference on Steel-Concrete Composite Structures - Composite and Hybrid Structures (ASCCS-6 Secretariat), 2000, University of Southern California, Los Angeles, CA, USA, pp. 1025-1031.

-Ipek, M., Yilmaz, K., Sümer, M., Saribiyik, M., 2011. Effect of pre-setting pressure applied to mechanical behaviours of reactive powder concrete during setting phase. Construction and Building Materials 25(1), pp. 61-68.

+Iwaoka, S., Hori, S., Naruse, T., Watanabe, T., Yamamoto, K., Konno, O., 2003. Experimental study on the beam-column joints of ultra-high-strength reinforced concrete structure. In: Summary of Technical Papers of Annual Meeting of the Architectural Institute of Japan C-2, pp. 513-514. (in Japanese)

— J —

Jackson, B., 2005. Reactive powder shows its versatility. Civil Engineers Australia 77(11), pg. 57.

+Janzen, A., 2009. Perfect system and ultra-high performance concrete - State-of-the-art manhole production at Betonwerk Müller in Achern, Germany (Perfect-Anlage und Hochleistungsbeton - Modernste Schachtfertigung im Betonwerk Müller in Achern, Deutschland). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(5), pp. 42-48. (in English and German)

+Jacques, L., Fournier, Y., Jousselin, J.-Y., Batoz, J.-F., 2009. Les brise-soleil en BFUP : Une solution élégante pour réguler les apports thermiques dans les bâtiments (UHPFRC sunshades: An elegant solution for controlling thermal confort). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.1.5, 12 pgs. (in French)

Jaremko, D., 2003. New Shawnessy LRT station uses "revolutionary material." Alberta Construction Magazine (November/December), pp. 105-106.

JCI-DFRCC Committee, 2003. DFRCC Terminology and application concepts. Prepared by T. Matsumoto and H. Mihashi. Journal of Advanced Concrete Technology 1(3), pp. 335-340.

+Jensen, B.C., Jensen, L.R., Hansen, L.P., Hansen, F.T., 1995. Connections in precast buildings using ultra high-strength fibre reinforced concrete. In: Proceedings of the Nordic Symposium on Modern Concrete Structures, 1995, Aalborg University, pp. 63-74.

+Jensen, B.C., Aarup, B., 1996. Fire resistance of fibre reinforced silica fume based concrete (Résistance au feu des bétons contenant des fumées de silice et renforcés de fibres). In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-Performance Concrete, 29-31 May 1996, Paris, France, pp. 551-560.

+Jensen, B.C., 1999. Applications of steel-fibre-reinforced ultra-high-strength concrete. Structural Engineering International 9(2), pp. 143-146.

-Jerbic, D., 2005. Eine vergleichende okobilanzierung zur gartnerplatzbrucke aus UHPC. Diploma thesis, University of Kassel.

-Ji, T., Zhuang, Y., Chen, B., Huang, Z., 2011. Behavioral prediction of reactive powder concrete based on artificial neural network. In: Advanced Materials Research – Advanced in Building Materials - Proceedings of the 2010 International Conference on Structures and Building Materials (ICSBM 2011), 7-9 January 2011, Guangzhou, China 168-170, pp. 1030-1033.

-Ji, T., Chen, B., Zhuang, Y., Huang, Z., Liang, Y., 2011. Effects of packing degree and calcium-silicon ratio of cementitious materials on strength of reactive powder concrete. In: Advanced Materials Research – Advanced in Building Materials - Proceedings of the 2010 International Conference on Structures and Building Materials (ICSBM 2011), 7-9 January 2011, Guangzhou, China 168-170, pp. 1034-1037.

-Ji, W., Zhou, C., 2007. Shear lag analysis of prestressed RPC box girder. Zhongguo Tiedao Kexue/China Railway Science 28(1), pp. 19-22. (in Chinese)

-Jia, F., An, M., Kong, D., 2010. Study on the bond mechanism between reactive powder concrete and steel bars. In: Proceedings of the 2010 International Conference on Mechanic Automation and Control Engineering (MACE2010), 26-28 June 2010, Wuhan, China, pp. 4415-4418. (in Chinese)

-Jia, J.-Q., Yan, C.-W., Wang, H.-T., Meng, G., 2009. Seismic performance of steel reinforced ultra high-strength concrete columns. Sichuan Daxue Xuebao (Gongcheng Kexue Ban)/Journal of Sichuan University (Engineering Science Edition) 41(3), pp. 216-230.

-Jian, Y., Zhi, F., 2009. Behavior of prestressed ultra high performance concrete beams. Key Engineering Materials 400-402, pp. 385-390.

+Jiang, L.C., Gao, R., Li, L., 2009. Structural concept, static and dynamic properties of RPC-BSS with high durability. In: Proceedings of the Eleventh International Conference on Computer Aided Optimum Design in Engineering XI, 8-10 June 2009, Algarve, Portugal, pp. 167-171.

-Jiang, T., Fang, Z., 2010. Experimental investigation on the performance of wedge-bond anchors for CFRP tendons. Tumu Gongcheng Xuebao/China Civil Engineering Journal 43(2), pp. 79-87. (in Chinese)

-Jiang, T.-Y., Fang, Z., 2009. Theoretical and experimental investigation on anchorage performance of CFRP tendon in RPC. Gongcheng Lixue/Engineering Mechanics 26(1), pp. 166-173. (in Chinese)

-Jiang, T.-Y., Fang, Z., 2010. Bond stress distribution of CFRP tendon in reactive powder concrete. Zhongguo Gonglu Xuebao/China Journal of Highway and Transport 23(1), pp. 49-57. (in Chinese)

+Jiao, C.-J., Sun, W., Gao, P.-Z., 2006. Dynamic mechanical properties of steel-fiber reinforced ultra high strength concrete. Engineering Mechanics 23(8), pp. 86-89. (in Chinese)

Jinnai, H., Kuroiwa, S., Watanabe, S., Namiki, S., Hayakawa, M., 2005. Development and construction record on high-strength concrete with the compressive strength exceeding 150 MPa. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-65 II, pp. 1045-1061.

+Joh, C., Hwang, H., Choi, E., Park, J., Kim, B.-S., 2008. Punching shear strength estimation of UHPC slabs. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 719-726. (in book pdf)

+Joh, C., Hwang, H., Kim, B., 2008. Punching shear and flexural strengths of ultra high performance concrete slabs. In: Proceedings of the Fourth International Conference on High Performance Structures and Materials, 13-15 May 2008, Algarve, Portugal, HPSM 2008- WIT Transactions on the Built Environment 97, pp. 97-106.

-Joko, T., Sugano, S., Kimura, H., Shimoyama, Y., 2004. An experimental study on restoring force characteristics of RPC columns. In: Proceedings of the Japan Concrete Institute 26(2), pp. 799-804. (in Japanese)

-Joko, T., Sugano, S., Kimura, H., Kawaguchi, T., 2006. An experimental study for restitution characteristics of precast beam-shell column joint using UFC. In: Proceedings of the Japan Concrete Institute 28(2), pp. 649-656. (in Japanese)

-Jones, M.R., Zheng, L., Newlands, M.D., 2002. Comparison of particle packing models for proportioning concrete constituents for minimum voids ratio. Materials and Structures 35(249), pp. 301-309.

Jovanovic, I., Paatsch, A., Durukal, A., 2002. Ductal®: A new generation of ultra high performance fiber reinforced concrete. In: The Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June 2002, Leipzig, Eds. G. Konig, F. Dehn, T. Faust (Leipzig: Leipzig University, 2002) 2, pp. 1089-1095.

+JSCE-USC Guideline for Concrete No. 9: Recommendations for Design and Construction of Ultra-High Strength Fiber-Reinforced Concrete Structures, 2006, 106 pgs.

-Ju, Y., Liu, H., Chen, J., Jia, Y., Peng, P., 2009. Toughness and characterization of reactive powder concrete with ultra-high strength. Science in China, Series E: Technological Sciences 52(4), pp. 1000-1018.

-Ju, Y., Yang, Y., Mao, Y., Liu, H., Wang, H., 2009. Laboratory investigation on mechanisms of stress wave propagations in porous media. Science in China, Series E: Technological Sciences 52(5), pp. 1374-1389.

-Ju, Y., Liu, H., Sheng, G., Wang, H., 2010. Experimental study of dynamic mechanical properties of reactive powder concrete under high-strain-rate impacts. Science China Technological Sciences 53(9), pp. 2435-2449.

-Ju, Y., Wang, F., Wang, D., 2011. Study of RPC mechanical properties and anti-freeze-thaw resistance. In: Advanced Materials Research – Advanced in Building Materials - Proceedings of the 2010 International Conference on Structures and Building Materials (ICSBM 2011), 7-9 January 2011, Guangzhou, China 168-170, pp. 1742-1748.

Ju, Y.-Z., Wang, J., 2006. Exploitation and performance study on new reactive powder concrete. Journal of Northeast Dianli University Natural Science Edition 26(2), pp. 10-12. (in Chinese)

-Juhart, J., 2007. Testing report on properties of hardened UHPC. Carinthian University of Applied Sciences, Spittal.

+Juhart, J., Freytag, B., Linder, J., 2007. Prüfung der Zugfestigkeit und Zugdehnung von UHPC (ultrahochfestem faserverstärkten Beton) Ein Beitrag zur Qualitätsüberwachung Innovativer Betonbauteile. Zement + Beton (Cement Concrete), pp. 8-11. (in German)

-Jumppanen, U.-M., 1989. High temperature properties and spalling behaviour of high strength and ultra high strength concrete. Nordic Concrete Research, Publication 4, Oslo.

Jungwirth, J., Muttoni, A., 2004. Structural behavior of tension members in UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 533-544.

-Jungwirth, J., Muttoni, A., 2004. Versuche an Bauteilen aus ultrahochfesten Beton – Teil 1 Materials. EPFL-IS-BETON, Lausanne.

-Jungwirth, J., Muttoni, A., 2004. Versuche an Bauteilen aus ultrahochfesten Beton – Teil 2 Bauteile. EPFL-IS-BETON, Lausanne.

+Jungwirth, J., Muttoni, A., 2005. Versuche zum Tragverhalten von ultra hochfestem Beton – Zusammenfassung. Institut de structures – Construction en béton, École Polytechnique Fédérale de Lausanne, 31 pgs. (in German)

+Jungwirth, J., 2006. Zum tragverhalten von zugbeanspruchten bauteilen aus ultra-hochleistungs-faserbeton. PhD Dissertation, École Polytehnique Fédérale de Lausanne, France, 3429, 236 pgs. (in German)

+Jungwirth, J., Seidl, G., Schmitt, V., Ungermann, D., 2008. Utilization of UHPC in composite structures – Lightweight composite structures (LCS). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 887-894. (in book pdf)

— K —

-Kabele, P., Li, V.C., Horii, H., Kanda, T., Takeushi, S., 1997. Use of BMC for ductile structural members. In: Proceedings of the Fifth International Symposium on Brittle Matrix Composites (BMC-5), Eds., A.M. Brandt, V.C. Li, I.H. Marshall, pp. 579-588.

-Kahlil, G., 1998. Mechanical properties of RPC using readily available materials in Australia, Undergraduate Thesis, UNSW.

+Kakizaki, M., Edahiro, H., Tochigi, T., Niki, T., 1992. Effect of mixing method on mechanical properties and pore structure of ultra high-strength concrete. Katri Report No. 90, Kajima Corporation, Tokyo, 19 pgs.

+Kamen, A., Denarié, E., Brühwiler, E., 2005. Mechanical behavior of ultra high performance fibre reinforced concretes (UHPFRC) at early age, and under restraint. In: Proceedings of the International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures (CONCREEP 7), 12-14 September 2005, Nantes, France, pp. 591-596. (Denarie, Bruhwiler)

+Kamen, A., 2006. Time dependent behavior of ultra high performance fibre reinforced concrete. In: Proceedings of the Sixth International PhD Symposium in Civil Engineering, 23-26 August 2006, Zurich 183, pp. 72-73.

-Kamen, A., Denarie, E., Bruhwiler, E., 2006. Physico-mechanical properties of ultra high performance fibre reinforced concrete. In: Proceedings of the First Mediterranean Symposium in Advances on Geomaterial and Structure, 2-5 May 2006, Tunisia, pp. 643-648.

+Kamen, A., 2007. Comportement au jeune âge et différé d'un BFUP écrouissant sous les effets thermoméchaniques. PhD Dissertation, École Polytechnique Fédérale de Lausanne (EPFL - Swiss Federal Institute of Technology, Lausanne), Switzerland 3827, 248 pgs. (in French)

Kamen, A., Denarié, E., Brühwiler, E., 2007. Thermal effects on physico-mechanical properties of ultra-high-performance fiber-reinforced concrete. ACI Materials Journal 104(4), pp. 415-423. (Denarie, Bruhwiler)

-Kamen, A., Denarie, E., Bruhwiler, E., 2007. UHPFRC early age time dependent response – Experimental characterisation and numerical analysis. In: Proceedings of the Third International Conference on Structural Engineering Mechanics and Computation, 10-12 September 2007, Cape Town, South Africa.

+Kamen, A., Denarié, E., Brühwiler, E., 2007. Viscoelastic behavior of a strain hardening ultra high performance fiber reinforced concrete. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 157-164. (Denarie, Bruhwiler)

+Kamen, A., Denarié, E., Sadouki, H., Brühwiler, E., 2008. Evaluation of UHPFRC activation energy using empirical models. Materials and Structures, 11 pgs. (Denarie, Bruhwiler)

+Kamen, A., Denarié, E., Sadouki, H., Brühwiler, E., 2008. UHPFRC tensile creep at early age. Materials and Structures, 42(1), pp. 113-122. (Denarie, Bruhwiler)

+Kamen, A., Denarié, E., Sadouki, H., Brühwiler, E., 2008. Thermo-mechanical response of UHPFRC at early age – Experimental study and numerical simulation. Cement and Concrete Research 38(6), pp. 822-831. (Denarie, Bruhwiler)

+Kameyama, Y., Watanabe, N., Musha, H., Fukuhara, T., 2010. Prestressed concrete composite girder slab bridge using ultra-high strength fiber reinforced concrete. In: National Report - Recent Works of Prestressed Concrete Structures, Third fib Congress, 29 May - 2 June 2010, Washington, DC, Japan Prestressed Concrete Engineering Association, pp. 181-184. (in English and Japanese)

+Kanakubo, T., 2006. Tensile characteristics evaluation method for ductile fiber-reinforced cementitious composites. Journal of Advanced Concrete Technology 4(1), pp. 3-17.

-Kanellopoulos, A., 2004. Autogenous shrinkage of CARDIFRC®. PhD Thesis, Cardiff University, UK.

+Kanellopoulos, A., Farhat, A., Nicolaides, D., Karihaloo, B.L., 2009. Mechanical and fracture properties of cement-based bi-materials after thermal cycling. Cement and Concrete Research 39(11), pp. 1087-1094.

+Kang, S.-T., Park, J.-J., Kim, S.-W., Hong, K.N., 2008. The effect of volume fraction of steel fiber on the tensile softening behavior in ultra high performance concrete. Key Engineering Materials 385-387, pp. 781-784.

+Kang, S.-T., Lee, Y., Park, Y.-D., Kin, J.-K., 2010. Tensile fracture properties of an ultra high performance fiber reinforced concrete (UHPFRC) with steel fiber. Composite Structures 92(1), pp. 61-71.

Kao, G.J.-P., Gowripalan, N., Bandyopadhyay, S., 2000. Preliminary studies of carbon fibre reinforced cementitious composites by AFM and FESEM. In: Proceedings of the International Composites Conference on Composites in the Transportation Industry (ACUN-2), 14-18 February 2000, Sydney, Australia (Sydney, Australia: University of New South Wales, School of Materials Science and Engineering, 2000), pp. 523-528.

Kao, G.J.-P., Bandyopadhyay, S., Gowripalan, N., 2003. Fabrication, mechanical testing and scanning electron microscopic study of short carbon fibre reinforced reactive powder concrete (CFRPC) with improved fibre dispersion. In: Proceedings of the International Workshop and Conference on Construction and Materials (CONMAT 2003), 9-11 January 2003, Kharagpur, India (Bombay, India: Indian Institute of Technology, 2003), pp. 498-510.

Kaprielov, S.S., Batrakov, V.G., Sheinfel'd, A.B., 2000. Modified concretes of new generation – the reality and perspectives. Russian Journal of Concrete and Reinforced Concrete (Netherlands) 14(3), pp. 1-13.

+Kaptijn, N., van der Veen, C., van Blokland, G., 1998. New possibilities for concrete in civil engineering when using RPC and CFRM? In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 171-175.

-Kaptijn, N., 2002. Future developments for ultra high strength concrete. Cement 2, pp. 56. (in Dutch)

Kaptijn, N., Blom, J., 2002. A new bridge deck for the Kaag bridges - the first CRC (compact reinforced composite) application in civil infrastructure. Science and Engineering of Composite Materials 10(6), pp. 397-402.

+Kaptijn, N., Nagtegall, G., 2003. Nieuw rijdek voor de Kaagbruggen – Erste toepassing van zeer-hogesterktebeton in civile draagconstructie (A new deck for the Kaag Bridges - The first CRC application in civil infrastructure). Cement and Bouwdienst Riikswaterstaat, The Netherlands, pp. 92-94. (in ?Dutch)

Kaptijn, N., Blom, J., 2004. A new bridge deck for the Kaag bridges – the first CRC (compact reinforced composite) application in civil infrastructure. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 49-57.

+Kaptijn, N., Blom, J., 2005. A new CRC (compact reinforced composite) bridge deck. In: Proceedings of the Eighteenth International BIBM Congress and Exhibition, 11-14 May 2005, Amsterdam, The Netherlands, 7 pgs. http://www.ferroplan.com

-Karamehmedovic, E., Childs, P., Whitbread, T., Wong, A.C.L., Gowripalan, N., Peng, G.D., 2005. Field test of strain fluctuation in the experimental reactive powder concrete bridge at Shephard's Creek. In: Proceedings of ACOFT, pp. 543-545.

+Karihaloo, B.L., De Vriese, K.M.B., 1999. Short-fibre reinforced reactive powder concrete. In: Proceedings of the Third International RILEM Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC3), 16-19 May 1999, Mainz, Germany, pp. 53-64.

-Karoly, K., 2002. Reaktiv poreton, Beton es vasbeton szerkezetek vedelme, javitasa es megerositese II. Kotet. Muegyetemi Kiado.

Kasten, K., Seidel, M., Seiler, A., 2004. Aufbereitung und betrieblicher Transport von UHPC (Conditioning and intra-company transportation of UHPC). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 70(4), pp. 14-20. (in German and English)

+Kasuga, A., Nagamoto, N., Kata, K., Asai, H., 2010. Study of a bridge with a new structural system using ultra high strength fiber reinforced concrete. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 141, 11 pgs.

+Katagiri, M., Maehori, S., Ono, T., Shimoyama, Y., Tanaka, Y., 2002. Physical properties and durability of reactive powder composite material (Ductal®). In: Proceedings of the First fib Congress 2002: Concrete Structures in the 21st Century, Osaka, Japan, 6 pp. 133-138.

Kaufmann, J., 2004. Development of special mortars for an application in centrifugal casting process. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 757-768.

+Kawabata, T., Suzuki, M., Sato, R., 2010. Effect of autogenous shrinkage before prestressing on prestress loss of pretensioned prestressed concrete beams. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 657, 11 pgs.

+Kawakane, H., Kawamoto, T., Takuma, O., Sato, R., 2008. Effective steel-ratio and size effect in shear sensitive HSC beams subjected to high-shrinkage. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 311-318. (in book pdf)

-Ke, K., Zhou, R., 2007. Researches on mechanical properties of carbon fiber reactive powder concrete. Shuili Fadian Xuebao/Journal of Hydroelectric Engineering 26(1), pp. 90-96. (in Chinese)

+Keierleber, B., Bierwagen, D., Fanous, F., Phares, B., Couture, I., 2007. Design of Buchanan County, Iowa, bridge using ultra high performance concrete and pi girders. In: Proceedings of the 2007 Mid-Continent Transportation Research Symposium, 16-17 August 2007, Ames, Iowa, 11 pgs.

+Keller, T., Schaumann, E., Vallée, T., 2007. Flexural behavior of a hybrid FRP and lightweight concrete sandwich bridge deck. Composites: Part A Applied Science and Manufacturing 38, pp. 879-889. (Vallee)

-Kendall, K., Howard, A.J., Birchall, J.D., 1983. The relation between porosity, microstructure and strength, and the approach to advanced cement-based materials. Philosophical Transactions of the Royal Society of London A310, pp. 139-153.

Khoury, G., Algar, S., 1998. Advanced mechanical characterisation of HPC and UHPC concretes at high temperatures. In: Proceedings of the Fifth International Workshop on Material Properties and Design – Durable Reinforced Concrete Structures, October 1998, Weimar, Germany, Eds. P. Schewesinger, F.H. Wittmann (Zurich: Aedificatio Verlag, 1998), pp. 267-282.

-Khoury, G., Algar, S., Felicetti, R., Gambarova, P., 1999. Mechanical behaviour of HPC and UHPC concretes at high temperature in compression and tension. In: Proceedings of the ACI International Conference on State-of-the-art in High Performance Concrete, 14-18 March 1999, Chicago.

-Khoury, G.A., 1999. Mechanical behaviour of HPC and UHPC at high temperature in compression. In: Final report of BRITE EURAM III-BRPR-CT95-0065 HITECO research Programme – Understanding and Industrial Application of High Performance Concrete in High Temperature Environment.

+Khoury, G.A., Anderberg, Y., 2000. Fire safety design - Concrete Spalling Review. Report submitted to the Swedish National Road Administration, 60 pgs.

Khoury, G.A., Majorana, C.E., Pesavento, F., Schrefler, B.A., 2002. Modelling of heated concrete. Magazine of Concrete Research 54(2), pp. 77-101.

+Kim, D.J., Naaman, A.E., El-Tawil, S., 2008. High tensile strength strain-hardening FRC composites with less that 2% fiber content. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 169-176. (in book pdf)

+Kim, D.J., El-Tawil, S., Naaman, A.E., 2009. Rate-dependent tensile behavior of high performance fiber reinforced cementitious composites. Materials and Structures 42, pp. 399-414.

+Kim, J.-H.J., Lim, Y.M., Won, J.-P., Park, H.-G., Lee, K.-M., 2007. Shear capacity and failure behavior of DFRCC repaired RC beams at tensile region. Engineering Structures 29(1), pp. 121-131.

+Kim, J.K., Yoo, S.H., Han, B.S., Shin, S.W., 2007. Ductility of ultra high-strength concrete tied columns under combined axial load and lateral force. Key Engineering Materials 348-349, pp. 609-612.

-Kim, S.W., Park, J.J., Koh, K.T., Kang, S.T., Lee, J.H., 2003. The effect of curing method on compressive strength properties of UHPCC. In: Proceedings of the Korean Society of Civil Engineers.

+Kim, S.W., Kang, S.T., Park, J.J., Ryu, G.S., 2008. Effect of filling method on fibre orientation and dispersion and mechanical properties of UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 185-192. (in book pdf)

-Kim, Y.J., Chin, W.J., Choi, E.S., Kang, J.Y., Kim, B.S., 2010. A study on the vibration control of an ultra-high performance concrete pedestrian cable stayed bridge. In: Proceedings of Fifth International Conference on High Performance Structures and Materials V (HPSM 2010) - WIT Transactions on the Built Environment, 26-28 July 2010, Tallinn, Estonia (UK: WITPress, Ashurst Lodge, Ashurst, Southampton) 112, pp. 309-318.

+Kimura, H., Sugano, S., Nagashima, T., 1996. Seismic behavior of reinforced concrete columns using ultra-high-strength concrete under high axial load (Comportement au séisme de poteaux en béton armé à ultra haute résistance soumis à un chargement axial). In: Proceedings of the Fourth International Symposium on the Utilization of HS/HPC, 29-31 May 1996, Paris, Paper 184, pp. 893-904.

+Kimura, H., Ueda, T., Ohtake, K., Kambayashi, A., 2007. Structural design of 80-story RC high-rise building using 200 MPa ultra-high-strength concrete. Journal of Advanced Concrete Technology 5(2), pp. 181-191.

+Kimura, H., Ishikawa, Y., Kambayashi, A., Takatsu, H., 2007. Seismic behavior of 200 MPa ultra-high-strength steel-fiber reinforced concrete columns under varying axial load. Journal of Advanced Concrete Technology 5(2), pp. 193-200.

Kinoshita, M., 2005. The role and the development of chemical admixtures for high performance concrete. Nippon Gomu Kyokaishi (Journal of the Society of Rubber Industry, Japan) 78, pp. 267-272. (in Japanese)

-Kitakaze, N., Sugano, S., Kimura, H., Katagiri, M., 2003. An experimental study on compressive characteristics of columns with ultra-high-strength concrete. In: Proceedings of the Japan Concrete Institute 26(2), pp. 847-852. (in Japanese)

+Kjaer, R., Exner, H., 2005. Compact Reinforced Composite - Spiral Staircase, Copenhagen. In: The Art of Precast Concrete – Colour Texture Expression, Ed. D. Bennett (Basel, Switzerland: Birkhauser, 2005), pp. 152-155.

-Kleen, E., 2003. Zusatzmittel fur Ultrahochleistungsbeton. 3. Leipziger Fachtagung Ultrahochfester Beton (UHFB), Leipzig 27/28 Nov 2003.

+Kleiner, M., Curbach, M., Tekkaya, A.E., Ritter, R., Speck, K., Trompeter, M., 2008. Development of ultra high performance concrete dies for sheet metal hydroforming. Production Engineering 2(2), pp. 201-208.

Klemens, T., 2004. Flexible concrete offers new solutions. Concrete Construction - World of Concrete 49(12), pp. 72-74.

+Kleymann, M., Girgis, A.M., Tadros, M.K., 2006. Developing user friendly and cost effective ultra-high performance concrete. In: Proceedings of the Concrete Bridge Council Conference, 9 pgs.

+Klinghoffer, O., Aarup, B., 1996. Effect of microcracks on durability of ultra high strength concrete. In: Proceedings of the Fourth International Symposium on Corrosion of Reinforcement in Concrete Construction, 1-4 July 1996, Robison College, Cambridge, pp. 611-619.

-Klotz, S., Hoschemacher, K., 2003. Teilfachenpressung bei UHFB. In: Ultrahochfester Beton. Innovationen im Bauwesen, Beitrage aus Praxis und Wissenschaft. (Berlin: Bauwerk Berlag GmbH, 2003), pp. 215-226.

-Klotz, S., XXXX. Ultrahochfester Beton Unter Teilflachenbelastung. (book)

Kmita, A., 2000. A new generation of concrete in civil engineering. Journal of Materials Processing Technology 106(1-3), pp. 80-86.

+Knitl, J., 2009. Fiber-reinforced ultra-high-performance concrete in practice - Precast bridge in Volkermarkt - Manufacture, transport and erection of the precast components (Faserbewehrter Ultrahochleistungsbeton in der Praxis - Fertigteilbrücke in Volkermarkt - Herstellung, Transport und Montage der Fertigteile). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(2), pp. 46-47. (in English and German)

+Kobler, M., Sobek, W., 2008. The introduction of high forces into thin-walled UHPC elements by the use of implants. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 683-690. (in book pdf)

+Kohlmeyer, C., Kurz, W., Schnell, J., Wiese, S., 2010. Investigations on embedded shear connectors for lightweight composite structures. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 429, 11 pgs.

-Kollmorgen, G.A., 2004. Impact of age and size on the mechanical behavior of an ultra high performance concrete. MS Thesis. Michigan Technological University.

+Komuro, T., Kawabata, I., Kuroiwa, S., Watanabe, H., Jinnai, H., 2002. Research for application of RC columns using high strength concrete with compressive strength of 150 MPa. In: Proceedings of Structural Engineers World Congress 2002 (SEWC2002), Yokohama, Japan, 1 pg. (abstract only).

-Konig, G., Holschemacher, K., Dehn, F., 2003. Ultrahochfester Beton, Innovationen im Bauwesen, Beitrage aus Praxis und Wissenschaft (Ultra high-strength concrete, Innovations in Construction, Contributions from practice and science). (Berlin: Bauwerk-Verlag, Leipzig, 2003), 268 pgs. (in German)

+Korb, J.-P., Petit, D., Philippot, S., Zanni, H., Maret, V., Cheyrezy, M., 1998. Nuclear relaxation of water confined in reactive powder concrete. In: Nuclear Magnetic Resonance Spectroscopy of Cement-based Materials, pp. 333-343.

Korpa, A., Trettin, R., 2004. The use of synthetic colloidal silica dispersions for making HPC and UHPC systems, preliminary comparison results between colloidal silica dispersions and silica fumes (SF). In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 155-164.

+Korpa, A., Trettin, R., 2007. Nanoscale pozzolans for improving ultra high performance cementitious binders (Nanoskalige Puzzolane zur Verbesserung von zementhaltigen Ultra-Hochleistungs-Bindemitteln). Cement International 5, pp. 74-83.

+Korpa, A., Trettin, R., 2008. Ultra high performance cement-based composites with advanced properties containing nanoscale pozzolans. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 391-400. (in book pdf)

+Korpa, A., Trettin, R., 2008. Very high early strength of ultra-high performance concrete containing nanoscale pozzolans using the microwave heat curing method. Advances in Cement Research 20(4), pp. 175-184.

+Korpa, A., Trettin, R., Bottger, K.G., Thieme, J., Schmidt, C., 2008. Pozzolanic reactivity of nanoscale pyrogene oxides and their strength contribution in cement-based systems. Advances in Cement Research 20(1), pp. 35-46.

+Korpa, A., Kowald, T., Trettin, R., 2009. Phase development in normal and ultra high performance cementitious systems by quantitative X-ray analysis and thermoanalytical methods. Cement and Concrete Research 39(2), pp. 69-76.

Kowald, T., 2004. Influence of surface-modified carbon nanotubes on ultra-high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 195-202.

+Kowald, T., Trettin, R., Dörbaum, N., Städler, T., Jiang, X., 2008. Influence of carbon nanotubes on the micromechanical properties of a model system for ultra-high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 129-134. (in book pdf) (Dorbaum, Stadler)

+Kowald, T., Trettin, R., 2009. Improvement of cementitious binders by multi-walled carbon nanotubes. In: Proceedings of Nanotechnology in Construction 3 (NICOM3), Eds. Z. Bittnar, P.J.M. Bartos, J. Nemecek, V. Smilauer, J. Zeman (Berlin: Springer-Verlag, 2009), pp. 261-266.

Kratochvíl, A., Urban, J., Pospíšil, K., 2003. Mosty z vysokohodnotných betonů v severní Americe. Beton – Technologie, Konstrukce, Sanace 6, pp. 48-51. (in ?Czechoslovakian) (Kratochvil, Pospisil)

+Krelaus, R., Teichmann, T., 2007. Structural gluing of ultra-high-strength concrete – Laboratory investigations and practical applications (Konstruktives Kleben von ultrahochfestem Beton – Laboruntersuchungen und praktische Anwendungen). BFT 73(2), pp. 22-23. (in English and German)

+Krelaus, R., Freisinger, S., Schmidt, M., 2008. Adhesive bonding of UHPC structural members at the Gaertnerplatz Bridge in Kassel. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 597-604. (in book pdf)

-Krelaus, R., Wisner, G., Freisinger-Schadow, S., Schmidt, M., Bohm, S., Dilger, K., 2009. Resistance of adhesive bonding of ultra-high performance concrete to hygrothermal, corrosive, and freeze-thaw cycling environments. Journal of ASTM International 6(9).

-Krelaus, R., Wisner, G., Freisinger-Schadow, S., Schmidt, M., Bohm, S., Dilger, K., 2010. Resistance of adhesive bonding of ultra-high performance concrete to hygrothermal, corrosive, and freeze-thaw cycling environments. In: Proceedings of the Third ASTM International Symposium on Durability of Building and Construction Sealants and Adhesives (2008-DBCSA), 25-26 June 2008, Denver, CO, ASTM Special Technical Publication 1514 3, pp. 227-253.

+Krstulovic-Opara, N., 1996. SIMCON – A novel high performance fiber-mat reinforced cement composite for repair, retrofit and new construction. In: Proceedings of the Fourth Materials Engineering Conference – Materials for the New Millennium, 10-14 November 1996, Washington, D.C., USA, Ed. K.P. Chong. (New York: ASCE 1996) 1, pp. 288-297.

-Krstulovic-Opara, N., Toutanji, H., 1996. Infrastructural repair and retrofit with HPFRCCs. In: Proceedings of the RILEM High Performance Fiber Reinforced Concrete Composites 2 (HPFRCC 2), A.E. Naaman, H.W. Reinhardt, (Eds.), 1996, Ann Arbor, MI, pp. 423-442.

+Krstulovic-Opara, N., Dogan, E., Uang, C.-M., Haghayeghi, A.R., 1997. Flexural behavior of composite R.C. – Slurry infiltrated mat concrete (SIMCON) members. ACI Structures Journal 94(5), pp. 502-512.

+Krstulovic-Opara, N., Malak, S., 1997. Micromechanical tensile behavior of slurry infiltrated continuous-fiber-mat reinforced concrete (SIMCON). ACI Materials Journal 94(5), pp. 373-384.

+Krstulovic-Opara, N., Malak, S., 1997. Tensile behavior of slurry infiltrated mat concrete (SIMCON). ACI Materials Journal 94(1), pp. 39-46.

+Krstulovic-Opara, N., 1999. Use of SIMCON in seismic retrofit and new construction. In: Proceeding of the Third International RILEM Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC3), 16-19 May 1999, Mainz, Germany, pp. 629-649.

+Krstulovic-Opara, N., Al-Shannag, M.J., 1999. Compressive behaviour of slurry infiltrated mat concrete. ACI Materials Journal 96(3), pp. 367-378.

+Krstulovic-Opara, N., Al-Shannag, M.J., 1999. Slurry infiltrated mat concrete (SIMCON)-based shear retrofit of reinforced concrete members. ACI Structural Journal 96(1), pp. 105-115.

-Kuchler, M., 2008. Zum tragverhalten von verbundmittein fur hybridkonstruktionen aus ultrahochleistunsbeton. Dissertation in Vorbereitung, Universitat Leipzig.

Kuennen, T., 2004. Small science will bring big changes to roads. Better Roads (July), pp. 20-30.

Kumar, P., Kaushik, S.K., 2003. Some trends in the use of concrete: Indian scenario. The Indian Concrete Journal, pp. 1503-1508.

Kurdi, A., Khoury, S., Abbas, R., 2001. A new concrete for the 21 century: Reactive powder concrete. AEJ - Alexandria Engineering Journal 40(6), pp. 893-909.

+Kutschera, M., Breiner, T., Wiese, H., Leitl, M., Bräu, M., 2009. Nano-modification of building materials for sustainable construction. In: Proceedings of Nanotechnology in Construction 3 (NICOM3), Eds. Z. Bittnar, P.J.M. Bartos, J. Nemecek, V. Smilauer, J. Zeman (Berlin: Springer-Verlag, 2009), pp. 275-280. (Brau)

-Kuznetsov, V., Rebentrost, M., Wasch, J., 2006. Strength and toughness of steel fibre reinforced reactive powder concrete under blast loading. In: Proceedings of the First International Conference on Analysis and Design of Structure against Explosive and Impact Loads, September, Tianjin, China.

— L —

+Lachemi, M., Bastien, J., Adeline, R., Ballivy, G., Aïtcin, P.-C., 1998. Monitoring of the world's first reactive powder concrete bridge. In: Proceedings of the Fifth International Conference on Short and Medium Span Bridges, 13-16 July 1998, Calgary, Alberta, Canada, 10 pgs. (Aitcin)

+Lacouture, J.-C., Johnson, P.A., Cohen-Tenoudju, F., 2003. Study of critical behavior in concrete during curing by application of dynamic linear and nonlinear means. Journal of the Acoustical Society of America 113(3), pp. 1325-1332.

Lagerblad, B., Vogt, C., 2004. Framtagning av ultrahögpresterande betong som ersättning för gjutjärn och andra metaller (Production of ultra-high performance concrete as replacement for cast iron and other metals). Cement och Betong Institutet (Swedish Cement and Concrete Institute), DUR 5310-2001-03200, Projektnr, P 20072-1, 14 pgs. (in Swedish)

-Lagos, C., 2007. Untersuchungen zur Robustheit von UHPC-Mischungen. Master Thesis, Universitat Hannovers, Institut fur Baustoffe.

Lai, J., Sun, W., Zhan, B., 2004. Study on the fracture mechanical properties of ecological reactive powder concrete. Dongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Southeast University (Natural Science Edition) 34(1), pp. 92-95. (in Chinese)

Lai, J., Sun, W., Lin, W., Jin, Z., 2005. Static and dynamic mechanical behaviour of ECO-RPC. Journal of Southeast University (English Edition) 21(2), pp. 197-202.

+Lai, J., Sun, W., 2008. Dynamic mechanical behaviour of ultra-high performance fiber reinforced concretes. Journal of Wuhan University of Technology – Materials Science Edition 23(6), pp. 938-945.

+Lai, J., Sun, W., 2009. Dynamic behaviour and visco-elastic damage model of ultra-high-performance cementitious composite. Cement and Concrete Research 39(11), pp. 1044-1051.

-Lai, J., Sun, W., 2010. Dynamic tensile behaviour of reactive powder concrete by Hopkinson bar experiments and numerical simulation. Computers and Concrete 7(1), pp. 83-86.

-Lai, J.-Z., Sun, W., Zhang, Y.-S., Jin, Z.-Q., 2007. The flexural behaviour of ecological ultra-high performance concrete. Wuhan Ligong Daxue Xuebao/Journal of Wuhan University of Technology 29(3), pp. 42-45. (in Chinese)

-Lai, J.-Z., Sun, W., Rong, Z.-D., 2008. Dynamic mechanical behaviour of reactive powder concrete subjected to repeated impact. Baozha Yu Chongji/Explosion and Shock Waves 28(6), pp. 532-538. (in Chinese)

-Lai, J.-Z., Sun, W., 2009. The spalling behaviour of reactive powder concrete. Gongcheng Lixue/Engineering Mechanics 26(1), pp. 137-141. (in Chinese)

Lallemant-Gamboa, I., Chanut, S., Lombard, J.-P., Chaignon, J., Thibaux, T., 2005. Formulations, characterizations and applications of ultra high-performance concrete. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-78 II, pp. 1221-1235.

Lange, M.H., 2004. Komposit Brobanecaek med vaegt på anvendelsen af CRC og FRC (Composite Bridge Deck – with emphasis on the use of CRC and FRC). BYG – Danmarks Tekniske Universitet, Study no. s022095, 138 pgs.

-Lankard, D.R., 1991. Investigation of Manganese steel fiber mats used in the fabrication of SIFCON panels. Progress Report # I-1100-126-2, Au 21, 1991, 15 pgs.

-Lankard, D.R., 1991. Investigation of 304 stainless steel fiber mats as reinforcement in a refractory concrete composite. Progress Report #I-1100-128-1, Aug 16, 1991, 16 pgs.

+Lankard, D.R., Lease, D.H., 1982. Highly reinforced precast monolithic refractories. Bulletin of the American Ceramic Society 61(7), pp. 728-732.

+Lankard, D.R., 1984. Factors affecting selection and performance of steel-fiber-reinforced monolithic refractories. Bulletin of the American Ceramic Society 63(7), pp. 919-925.

+Lankard, D.R., 1984. Slurry infiltrated fiber concrete (SIFCON). Concrete International 6(12), pp. 44-47.

+Lankard, D.R., Newell, J.K., 1984. Preparation of highly reinforced steel fiber reinforced concrete composites. In: Proceedings of the International Symposium on Fiber Reinforced Concrete, Ed., G.C. Hoff (Detroit, MI, USA: American Concrete Institute, 1984) ACI SP-81-14, pp. 287-306.

Lankard, D.R., 1985. Preparation, properties and applications of cement-based composites containing 5 to 20 percent steel fiber. In: Proceedings of the Steel Fiber Concrete US-Sweden Joint Seminar (NSF-STU), 3-5 June 1985, Stockholm, Sweden, Eds. S.P. Shah, A. Skarendah (Swedish Cement & Concrete Research Institute), pp. 199-217.

Lankard, D.R., 1985. Slurry infiltrated fiber concrete (SIFCON): Properties and applications. In: Proceedings of the Very High Strength Cement-Based Materials Symposium, 27-28 November 1984, Boston, Massachusetts, USA, Ed. J.F. Young (Pittsburgh, PA: Materials Research Society, 1985) 42, pp. 277-286.

Lappa, E.S., Braam, C.R., Walraven, J.C., 2004. Static and fatigue bending test of UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 449-458.

+Lappa, E.S., Braam, C.R., Walraven, J.C., 2006. Bending performance of high strength steel fibre reinforced concrete – Static and fatigue loading conditions. In: Proceedings of the International Symposium on Measuring, Monitoring and Modeling Concrete Properties, July 2006, Alexandroupolis, Greece, Ed. M.S. Konsta-Gdoutos (Netherlands: Springer, 2006), pp. 133-138.

LaViolette, M.D., Bierwagen, D., 2006. Precast, post-tensioned bridge repair solutions. In: Structural Faults + Repair-2006, Abstracts of the Eleventh International Conference on Extending the Life of Bridges, Concrete + Composites, Building, Masonry + Civil Structures, 13-15 June 2006, University of Edinburgh, Edinburgh, Scotland, Ed. M.C. Forde, pg. 34. www.structuralfaultsandrepair.com (abstract only)

Le, T.T., Soutsos, M.N., Millard, S.G., web2007. Reactive glass powder concrete (RGPC) poster. University of Liverpool, UK, 1 pg. http://pcwww.liv.ac.uk/ConcreteGroupLU/news/picture/poster_thanh.pdf (poster)

Le, T.T., Soutsos, M.N., Millard, S.G., 2007. Ultra high performance fibre reinforced concrete (UHPFRC) presentation. University of Liverpool, UK. http://pcwww.liv.ac.uk/~lethanh/documents/RPC.htm (presentation)

-Le, T.T., Soutsos, M.N., Millard, S.G., Barnett, S.J., 2007. UHPFRC – Optimisation of mix proportions. In: Proceedings of Concrete Platform International Conference, Belfast, Northern Ireland, pp. 339-348.

+Le, T.T., Soutsos, M.N., Millard, S.G., Tang, K.K., 2008. Structural behaviour of a UHPFRC flag pavement. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 663-670. (in book pdf)

-Le Roy, R., Serrano, J.J., XXXX. Centrale nucleaire de Cattenom. Poutres en beton a ultra-hautes performances precontraintes. Mise au point rheologique du beton B.S.I., Rapport d"etude confidutiel, Contrat d"etude LCPC no. 327209, donneur d"ordres EGI.

-Le Roy, R., Le Maou, F., Boulay, C., 1999. Beton B.S.I. Etude du comportement differe. Rapport d'etude confidentiel, contrat d'etude LCPC no. 34240498, donneur d'ordres EGI, rapport final mars.

Lee, M.-G., Chiu, C.-T., Wang, Y.-C., 2005. The study of bond strength and bond durability of reactive powder concrete. Proceedings of the ASTM Symposium on Advances in Adhesives, Adhesion Science, and Testing, 4-6 October 2004, Washington, DC, USA, Journal of ASTM International 2(7), pp. 485-494.

Lee, M.-G., Kan, Y.-C., Chen, K.-C., 2006. A preliminary study of RPC for repair and retrofitting materials. Zhongguo gong cheng xue kan (Journal of the Chinese Institute of Engineers) 29(6), pp. 1099-1103.

Lee, M.-G., Wang, Y.-C., Chiu, C.-T., 2007. A preliminary study of reactive powder concrete as a new repair material. Construction and Building Materials 21(1), pp. 182-189.

-Lee, M.-G., Huang, Y.-S., 2009. Fire-damage or freeze-thaw of strengthening concrete using ultra high performance concrete. In: Proceedings of the Second International Conference on Multi-Functional Materials and Structures (MFMS-2009), 9-12 October 2009, Qingdao, China 79-82, pp. 2047-2050.

+Lee, N.P., Chisholm, D.H., 2005. Reactive Powder Concrete. Branz Study Report No.146, Building Research Levy, New Zealand, 35 pgs.

Lee, T-F.F., Shi, L.-P., Yao, H.-L., 2001. The comparison of structural concrete, self-compacting high-performance concrete, and self-compacting reactive powder concrete under severe impact loading conditions. In: Proceedings of the Third International Conference on Concrete Under Severe Conditions – Environment and Loading (CONSEC '01), 18-20 June 2001, Vancouver, BC, Canada, Eds. N. Banthia, K. Sakai, O.E. Gjørv (Vancouver, BC, Canada: University of British Columbia, 2001) 1, pp. 676-682.

+Lehmann, C., Fontana, P., Müller, U., 2009. Evolution of phases and micro structure in hydrothermally cured ultra-high performance concrete (UHPC). In: Proceedings of Nanotechnology in Construction 3 (NICOM3), Eds. Z. Bittnar, P.J.M. Bartos, J. Nemecek, V. Smilauer, J. Zeman (Berlin: Springer-Verlag, 2009), pp. 287-293. (Muller)

+Lehmkuhl, H., 2003. Erneuerung der Gärtnerplatzbrücke mit UHPC – Randbedingungen und Aufgaben des Baulastträgers. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 79-87. (in book pdf) (in German)

Leutbecher, T., Fehling, E., 2004. Structural behaviour of UHPC under tensile stress and biaxial loading. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 435-446.

-Leutbecher, T., 2007. Rissbildung und zugtragverhalten von mit stabstahl und fasern bewehrtem ultrahochfesten beton (UHPC). Dissertation, Universitat Kassel (Mai 2007).

+Leutbecher, T., 2008. Rissbildung und Zugtragverhalten von mit Stabstahl un Fasern bewehrtem Ultrahochfesten Beton (UHPC). PhD Dissertation, Schriftenreihe Baustoffe und Massivbau (Structural Materials and Engineering Series) 9(9) (Kassel, Germany: Kassel University Press, 2007), 266 pgs. (in German)

+Leutbecher, T., Fehling, E., 2008. Crack formation and tensile behaviour of UHPC reinforced with a combination of rebars and fibres. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 497-504. (in book pdf)

+Leutbecher, T., Fehling, E., 2009. Rissbildung und Zugtragverhalten von mit Fasern verstärktem Stahlbeton am Beispiel ultrahochfesten Betons, Teil 1: Rissmechanische Zusammenhänge (Crack formation and tensile behaviour of concrete members reinforced with rebars and fibres exemplified by ultra-high-performance concrete, Part 1: Crack mechanical relationships). Beton- und Stahlbetonbau 104(6), pp. 357-367. (in German)

-Leutbecher, T., Fehling, E., 2009. Crack formation and tensile behaviour of concrete members reinforced with rebars and fibres exemplified by ultra-high-performance concrete Part 2: Experimenal investigations and examples of application (Rissbildung und Zugtragverhalten von mit Fasern verstarktem Stahlbeton am Beispiel ultrahochfesten Betons: Teil 2: Experimentelle untersuchungen und anwendungsbeispiele). Beton- und Stahlbetonbau 104(7), pp. 406-415.

Lewis, A., 1999. Concrete in France. Concrete 33(7), pp. 16-23.

+Lewis, J.A., Kriven, W.M., 1993. Microstructure-property relationships in macro-defect-free cement. MRS Bull 18(3), pp. 72-77.

+Lewis, J.A., Boyer, M.A., 1995. Effects of an organotitanate cross-linking additive on the processing and properties of macro-defect-free cement. Advanced Cement Based Materials 2, pp. 2-7.

-Li, L., Zheng, W.-Z., 2010. Experimental study on plastic property of reactive powder concrete continuous beams. Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology 42(2), pp. 193-199. (in Chinese)

-Li, Q., Xu, S., 2010. A design concept with the use of RUHTCC beam to improve crack control and durability of concrete structures. Materials and Structures/Materiaux et Constructions, pp. 1-27.

+Li, Q., Xu, S., 2010. Influence of reinforcement ratio on performances of RUHTCC flexural members. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 175, 12 pgs.

-Li, Q.-H., Xu, S.-L., 2009. Performance and application of ultra high toughness cementitious composite: A review. Gongcheng Lixue/Engineering Mechanics 26(2), pp. 23-67. (in Chinese)

-Li, V.C., Horii, H., Kabele, P., Kanda, T., Lim, Y.M., 2000. Repair and retrofit with engineered cementitious composites. Engineering Fracture Mechanics 65(2-3), pp. 317-334.

+Li, V.C., Yang, E.-H., 2007. Self healing in concrete materials. In: Self Healing Materials – An Alternative Approach to 20 Centuries of Materials Science, Ed. S. van der Zwaag (The Netherlands: Springer, 2007), pp. 161-193.

Li, W.-X., Liang, X.-L., Zhao, S.-T., Wang, J., 2005. Study on tunnel lining with reactive powder shotcrete in soft rock strata. Chinese Journal of Rock Mechanics and Engineering 24(2), pp. 5505-5508. (in Chinese)

-Liang, X., Wang, Y., Wang, Z., 2008. Effect of lateral inertia and strain rate for RPCs under impact loading. Beijing Jiaotong Daxue Xuebao/Journal of Beijing Jiaotong University 32(4), pp. 58-62. (in Chinese)

-Liao, S., Ma, Y.-R., 2005. Study on the bending performance of reactive powder concrete prestressed composite beams. Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences 32(1), pp. 57-62. (in Chinese)

-Lichtenfels, A., 2004. Schalentragwerke und Warmespeicher aus Ultra-Hochleistungs-Beton. Doctor thesis, University of Stuttgart.

Lichtenfels, A., 2004. Ultra-high performance fibre reinforced concrete for shells. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 827-838.

+Lichtenfels, A., 2007. Ultra-high performance concrete for the roof of a research hot water storage. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 49-56.

-Lin, S.S., Yang, G.L., 2002. Steel Fiber Reinforced High-Strength and Ultra-High-Strength Concrete. (Beijing, China: Science Publisher, 2003). ?book or article?

Lin, Z., Wu, Y., Shen, Z., 2005. Research on behavior of RPC filled circular steel tube column subjected to axial compression. Jianzhu Jiegou Xuebao (Journal of Building Structures) 26(4), pp. 52-57. (in Chinese)

-Lin, Z.Y., 2004. Research on behavior of RPC filled circular steel stub axial columns. Master Thesis. Fuzhou University, Fuzhou.

+Link, M., Weiland, M., Hahn, T., 2008. Structural health monitoring of the Gaertnerplatz Bridge over the Fulda River in Kassel. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 605-617. (in book pdf)

+Liu, C.-T., Huang, J.-S., 2009. Fire performance of highly flowable reactive powder concrete. Construction and Building Materials 23(5), pp. 2072-2079.

+Liu, C.-T., Huang, J.-S., 2008. Highly flowable reactive powder mortar as a repair material. Construction and Building Materials 22, pp. 1043-1050.

Liu, J., Song, S., Mei, S., 2001. Research for compounding and performance of RPC super high performance cement based compound materials. Wuhan Gongye Daxue Xuebao (Journal of Wuhan University of Technology 23(11), pp. 14-18. (in Chinese)

-Liu, J., Song, S., Wang, L., 2009. Durability and micro-structure of reactive powder concrete. Journal Wuhan University of Technology, Materials Science Edition 24(3) pp. 506-509.

-Liu, J., Song, S., Sun, Y., Wang, L., 2011. Influence of ultrafine limestone powder on the performance of high volume mineral admixture reactive powder concrete. In: Advanced Materials Research – New Materials and Advanced Materials - Proceedings of the 2010 International Conference on Advances in Materials and Manufacturing Processes (ICAMMP 2010), 6-8 November 2010, Shenzhen, China 150-151, pp. 1583-1586.

-Liu, J.-H., Song, S.-M., 2007. The influence of particle distribution to properties and microstructure of reactive power concrete. Wuhan Ligong Daxue Xuebao/Journal of Wuhan University of Technology 29(1), pp. 26-29. (in Chinese)

-Liu, J.-H., Wang, D.-M., Song, S.-M., Huo, W.-L., 2008. Research on durability and micro structure of high volume fine mineral mixture of reactive powder concrete. Wuhan Ligong Daxue Xuebao/Journal of Wuhan University of Technology 30(11), pp. 54-57+68. (in Chinese)

Liu, S., Sun, W., Lin, W., Lai, J., 2003. Preparation and durability of a high performance concrete with natural ultra-fine particles. Kuei Suan Jen Hsueh Pao (Journal of the Chinese Ceramic Society) 31(11), pp. 1080-1085. (in Chinese)

Lohaus, L., Anders, S., 2004. Effects of polymer- and fibre modifications on the ductility fracture properties and micro-crack development of ultra-high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 625-636.

+Lohaus, L., Anders, S., 2006. High-cycle fatigue of ultra-high performance concrete – Fatigue strength and damage development. In: Proceedings of the Second International Federation Internationale du Beton (fib) Congress, 5-8 June 2006, Naples, Italy, 10 pgs.

+Lohaus, L., Anders, S., 2007. Ductility and fatigue behaviour of polymer-modified and fibre-reinforced high-performance concrete. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 165-172.

+Lohaus, L., Anders, S., 2007. High-cycle fatigue of "ultra-high performance concrete" and "grouted joints" for offshore wind energy turbines. In: Proceedings of the Euromech Colloquium on Wind Energy, Eds. J. Peinke, P. Schaumann, S. Barth (Berlin: Springer-Verlag, 2007), pp. 309-312.

+Lohaus, L., Anders, S., 2008. Hybrid construction using high-performance concrete - New opportunities arising from research on grouted joints (Hybride Bauweisen mit Hochleistungsbeton - Neue Chancen aus der Forschung an Grouted Joints). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 74(2), pp. 22-23. (in English and German)

+Lohaus, L., Ramge, P., 2008. Robustness of UHPC – A new approach for mixture proportioning. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 113-120. (in book pdf)

Long, G., Wang, X., Xie, Y., 2002. Very-high-performance concrete with ultrafine powders. Cement and Concrete Research 32(4), pp. 601-605.

Long, G., Wang, X., Xie, Y., 2003. A reply to the discussion by Cengiz Duran Atis of the paper "Very high performance concrete with ultrafine powders" – Discussion. Cement and Concrete Research 33, pp. 167-168.

-Long, G., 2004. Study on composition, structure and properties of reactive powder concretes. Dissertation. Tongji University. (in Chinese)

Long, G., Xie, Y., Wang, P., Jiang, Z., 2005. Properties and micro/mecrostructure of reactive powder concrete. Kuei Suan Jen Hsueh Pao (Journal of the Chinese Ceramic Society) 33(4), pp. 456-461. (in Chinese)

Long, G.-C., Xie, Y.-J., Jiang, Z.-W., Sun, Z.-P., Wang, P.-M., 2004. Effect of aggregate on strength and dynamic elastic modulus of reactive powder concrete. Jianzhu Cailiao Xuebao (Journal of Building Materials) 7(3), pp. 269-273. (in Chinese)

Long, G.-C., Jiang, Z.-W., Sun, Z.-P., Wang, P.-M., Xie, Y.-J., 2005. Self-desiccation effect of reactive powder concrete. Jianzhu Cailiao Xuebao (Journal of Building Materials) 8(1), pp. 7-10. (in Chinese)

Long, G.-C., Xie, Y.-J., Li, J., 2005. Strength-effect of reactive mineral powder under heat curing condition. Jianzhu Cailiao Xuebao (Journal of Building Materials) 8(5), pp. 508-512. (in Chinese)

-Loukili, A., Richard, P., 1995. Creep and shrinkage of ultra high performance steel fibre reinforced concrete. In: Proceedings of the Conference on Concrete under Severe Condition, Environment and Loading (CONSEC'95), 2-4 August 1995, Sapporo, Japan, K. Sakai, N. Banthia, O.E. Gjorv, (Eds.), pp. 1553-1559.

-Loukili, A., 1996. Etude du retrait et du fluage de Betons a Ultra-Hautes Performances. Doctoral thesis. Ecole Centrale de Nantes, France, 155 pgs. (in French)

+Loukili, A., Roux, N., Arlot, D., Feylessoufi, A., 1996. Effects of a high reduction in the initial water content in cement based matrices. In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-performance Concrete, 29-31 May 1996, Paris, France, Ed. F. de Larrard, R. Lacroix, pp. 1367-1373.

+Loukili, A., Richard, P., Lamirault, J., 1998. A study on delayed deformations of an ultra high strength cementitious material. In: Proceedings of the Fourth CANMET/ACI/JCI International Symposium on Recent Advances in Concrete Technology, 1998, Tokushima, Japan, Ed. V.M. Malhotra (Farmington Hills, MI, USA: American Concrete Institute, 1998) ACI SP-179-54, pp. 929-949.

+Loukili, A., Khelidj, A., Richard, P., 1999. Hydration kinetics, change of relative humidity, and autogenous shrinkage of ultra-high-strength concrete. Cement and Concrete Research 29(4), pp. 577-584.

+Lu, P., Young, J.F., 1992. Hot pressed DSP cement paste. In: Proceedings of the Materials Research Society Symposium 245, pp. 321-328.

+Lu, P., Sun, G., Young, J.F., 1993. Phase composition of hydrated DSP cement pastes. Journal of the American Ceramic Society 76(4), pp. 1003-1007.

-Lu, S., Zheng, W., 2010. Some problem about the basic properties of FRP bars reinforced reactive powder concrete structural components. In: Proceedings of the 2010 International Conference on Computer Engineering and Technology (ICCET 2010), 16-18 April 2010, Chengdu, China 3, pp. V3659-V3662.

-Lu, S.-S., Zheng, W.-Z., 2010. Analysis on plastic properties of reactive powder concrete continuous beams reinforced with GFRP bars. Journal of Harbin Institute of Technology (New Series) 17(4), pp. 471-475.

-Lu, S.-S., Zheng, W.-Z., 2010. Calculation method for cross-sectional crack resistance of reactive powder concrete beams reinforced with GFRP bars. Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology 42(4), pp. 536-540. (in Chinese)

+Lubbers, A.R., 2003. Bond performance between ultra-high performance concrete and prestressing strands. Master Thesis, College of Engineering and Technology, Ohio University, 155 pgs.

-Ludwig, H.-M., Thiel, R., 2003. Dauerhaftigkeit von UHFB. In: Konig, G., Hoschemacher, K., Dehn, F., eds., Ultrahochfester Beton (Berlin: Bauwerk Verlag, 2003).

Ludwig, H.-M., 2005. Bewertung ultrahochfester Betone unter dem Aspekt der Dauerhaftigkeit (Evaluation of ultra-high-strength concrete with respect to durability). Beton- und Stahlbetonbau 100(2), pp. 116-123. (in German)

-Lukasik, J., Acker, P., Vernet, C., 2003. Ultra high-performance concrete with ductility. 15. International Baustofftagung, Band 2, Weimar, pp. 189-194.

+Lunk, P., Fleury, B., Brühwiler, E., Wassmann, K., 2008. Ultra-high performance fiber-reinforced concrete - Applications and experience in Switzerland (Ultrahochleistungsfaserbeton - Anwendungen und Erfahrungen in der Schweiz). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 74(2), pp. 90-91. (in English and German) (Bruhwiler)

Luo, X., Sun, W., Chan, S.Y.N., 2001. Steel fiber reinforced high-performance concrete: A study on the mechanical properties and resistance against impact. Materials and Structures/Materiaux et Constructions 34(237), pp. 144-149. (f'_c<120 MPa, but ~rpc)

— M —

+Ma, J., 2001. Experimental investigation for the production of ultra-high strength concrete. Leipzig Annual Civil Engineering Report, LACER 6, pp. 215-228.

-Ma, J., 2002. Ultra-high-performance concrete. In: Proceedings of the Fourth International PhD Symposium in Civil Engineering, 2002, Munich, Springer-VDI-Verlan GmbH and Co. KG 2, pp. 1-7.

Ma, J., Dietz, J., 2002. Ultra high performance self compacting concrete. LACER (LEIPZIG Annual Civil Engineering Report) 7, pp. 33-42.

Ma, J., Schneider, H., 2002. Properties of ultra-high-performance concrete. LACER (LEIPZIG Annual Civil Engineering Report) 7, pp. 25-32.

+Ma, J., Dehn, F., Koenig, G., 2003. Autogenous shrinkage of self-compacting ultra-high performance concrete (UHPC). In: Proceedings of the International Conference on Advances in Concrete and Structures (ICACS), 17-19 September 2003, Xuzhou, P.R. China, pp. 255-262.

Ma, J., Dietz, J., Dehn, F., 2003. Ultra high performance self compacting concrete. In: Proceedings of the Third International Symposium on Self-Compacting Concrete, 17-20 August 2003, Reykjavik, Iceland, Eds. O. Wallevik, I. Nielsson, PRO 33 (Bagneus, France: RILEM 2003), pp. 136-142.

+Ma, J., Schneider, H., 2003. Creep of ultra-high performance concrete under compressive stresses. Leipzig Annual Civil Engineering Report, LACER 8, pp. 39-50.

-Ma, J., Schneider, H., Wu, Z., 2003. Bruchmechanische KenngroBen von UHFB. In: Innovationen im Bauwesen: Ultrahochfester Beton, G. Konig, K, Hoschemacher, F. Dehn (Eds.). (Berlin: Bauwerk Verlag, 2003), pp. 121-130.

Ma, J., Orgass, M., 2004. Comparative investigations on ultra-high performance concrete with and without coarse aggregates. LACER (LEIPZIG Annual Civil Engineering Report) 9, 10 pgs.

Ma, J., Orgass, M., Dehn, F., Schmidt, D., Tue, N.V., 2004. Comparative investigations on ultra-high performance concrete with and without coarse aggregates. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 205-212.

-Maalej, M., Li, V., 1995. Introduction of strain hardening engineered cementitious composites in design of reinforced concrete flexural member for improved durability. ACI Structural Journal 92(2), pp. 167-176.

Maeder, U., Lallemant-Gamboa, I., Chaignon, J., Lombard, J.-P., 2004. Ceracem, a new high performance concrete: Characterisations and applications. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 59-68.

-Maehori, S., Hyodo, H., Ueda, N., Katagiri, M., Shimoyama, Y., 2002. Tensile behavior of reactive powder composites. In: Proceedings of the JCI International Workshop on Ductile Fiber Reinforced Cementitious Composites (DFRCC). Japan Concrete Institute, pp. 113-120.

Magnusson, J., Unosson, M., Carlberg, A., 2001. High performance concrete "HPC" – Filed experiments and production. FOI, Swedish Defence Research Agency Technical Report, FOI-R-0256-SE (November), 168 pgs.

Magnusson, J., Hallgren, M., 2004. Reinforced high strength concrete beams subjected to air blast loading. In: Proceedings of the Eighth International Conference on Structures Under Shock and Impact VIII (SUSI VIII), Eds. N. Jones, C.A. Brebbia (Southampton, UK: WIT Press, 2004), pp. 53-62.

-Magureanu, C., Sosa, I., Negrutiu, C., Heghes, B., 2010. Bending and shear behavior of ultra-high performance fiber reinforced concrete. In: Proceedings of Fifth International Conference on High Performance Structures and Materials V (HPSM 2010) - WIT Transactions on the Built Environment, 26-28 July 2010, Tallinn, Estonia (UK: WITPress, Ashurst Lodge, Ashurst, Southampton) 112, pp. 79-89.

Majorana, C.E., Salomoni, V.A., Schrefler, B.A., 1998. A constitutive relationship for high performance and ultra high performance concrete. In: Proceedings of the EURO-C Conference on Computational Modelling of Concrete Structures, 31 March - 3 April 1998, Badgastein, Austria, Ed. R. De Borst (Rotterdam: A.A. Balkema, 1998), pp. 203-208.

Majorana, C.E., Schrefler, B.A., 2000. Computational analysis of high performance and ultra high performance concrete structures at high temperatures. In: Proceedings of the Third Conference of Croatian Society of Mechanics, 28-30 September 2000, Cavtat/Dubrovnik, Croatia, Ed. P. Marovic (Central European Association for Computational Mechanics (CEACM) and Ministry of Science and Technology of the Republic of Croatia), 12 pgs.

-Malier, Y.P., Richard, P., Cheyrezy, M., Maret, V., 1995. Les betons de poudres reactive (BPR) a ultra haute resistance (200 a 800 MPa). Annales de l'institut technique du batiment et des travaux publics no532, serie: beton 320, pp. 82-102. ISSN 0020-2568.

+Malik, A.R., Foster, S.J., 2008. Behaviour of reactive powder concrete columns without steel ties. Journal of Advanced Concrete Technology 6(2), pp. 377-386.

+Malik, A., Foster, S., 2010. Carbon fiber-reinforced polymer confined reactive powder concrete columns-experimental investigation. ACI Structural Journal 107(3), pp. 263-271.

-Mansel, M., 2009. UHPC – Potential of a high performance building materials. Construction 90(3), pp. 24-27.

Mansoutre, S., Lequeux, N., 1996. Quantitative phase analysis of Portland cements from reactive powder concretes by X-ray powder diffraction. Advances in Cement Research 8(32), pp. 175-182.

+Marchand, P., 2009. Bétons fibrés ultra performant (BFUP) - Les nouvelles recommandations AFGC - Chapitre 2, calcul (Updated AFGC recommendations : Chapter 2 - Structural design). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.1.3, 10 pgs. (in French)

+Marchand, P., 2009. Bétons fibrés ultra performant (BFUP) - BFUP et développement durable - Synthèse des données disponibles (Available data : An overview). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.2.1, 6 pgs. (in French)

Marijan, S., Dubravka, B., Zeljana, S., 2005. Acoustic emission response and mechanical characterization of ultra high-performance concrete types. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-77 II, pp. 1207-1220.

Markeset, G., 2000. A low cost ultra high performance concrete for impact resistance. In: Proceedings of the PCI/FHWA/FIB International Symposium on High Performance Concrete – The Economical Solution for Durable Bridges and Transportation Structures, 25-27 September 2000, Orlando, Florida, USA, Ed. L.S. Johal (Chicago, IL: Precast/Prestressed Concrete Institute, 2000), pp. 266-275.

Markeset, G., 2002. Ultra high performance concrete is ideal for protective structures. In: Proceedings of the Third International Conference on High-Performance Concrete – Performance and Quality of Concrete Structures, 2002, Recife, PE, Brazil, Eds. V.M. Malhotra, P. Helene, A. Carneiro, E. P. Figueiredo (American Concrete Institute, 2002) ACI SP-207-8, pp. 125-137.

Markovich, I., van Mier, J.G.M., Walraven, J.C., 2002. Single fiber pullout from the hybrid fiber reinforced matrices. In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June 2002, Leipzig, Eds. G. Konig, F. Dehn, T. Faust (Germany: Verein der Freunde des Bauingenieur- und Wirtschaftsingenie der Universität Leipzig, 2002) 2, pp. 1175-1186.

+Márquez, S., Hanson, S., Tikalsky, P.J., 2008. Environmental advantages of ternary cement combinations. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 135-141. (in book pdf) (Marquez)

+Martinie, L., Rossi, P., Roussel, N., 2009. Rheology of fiber reinforced cementitious materials: Classification and prediction. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.2.2, 16 pgs.

+Martinie, L., Rossi, P., Roussel, N., 2010. Rheology of fiber reinforced cementitious materials: Classification and prediction. Cement and Concrete Research 40(2), pp. 226-234.

-Maruta, M., Sanada, A., 2004. Structural capacities of interior frame using concrete of 170 N/mm2 or higher. In: Proceedings of the Japan Concrete Institute 25(2), pp. 469-474. (in Japanese)

+Maruyama, I., Suzuki, M., Sato, R., 2005. Prediction of temperature in ultra high-strength concrete based on temperature dependent hydration model. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-75 II, pp. 1174-1186.

+Mashkin, N.A., Baev, V.S., Fedchenko, V.I., Zibnitskaja, N.E., Sharavin, J.A., 2007. New materials and technologies in construction of low-rise buildings from precision details foam concrete blocks. In: Proceedings of the 2007 International Forum on Strategic Technology, IFOST, 3-6 October 2007, Ulaanbaatar, Mongolia, pp. 534-535.

+Massicotte, B., Boucher-Proulx, G., 2008. Seismic retrofitting of rectangular bridge piers with UHPFRC jackets. In: Proceedings of the Seventh RILEM International Symposium on Fibre Reinforced Concrete (BEFIB 2008), Ed. R. Gettu, (RILEM Publications SARL), pp. 969-975.

+Massicotte, B., Boucher-Proulx, G., 2009. Seismic retrofitting of bridge piers with UHPFRC jackets. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.1.1, 9 pgs.

+Massidda, L., Sanna, U., Cocco, E., Meloni, P., 2001. High pressure steam curing of reactive-powder mortars. In: Proceedings of the Fifth CANMET/ACI International Conference on Recent Advances in Concrete Technology, Ed. V.M. Malhotra (Farmington Hills, MI, USA: American Concrete Institute, 2001) ACI SP-200-27, pp. 447-463.

-Mathiesen, F., Mork, M., Tychsen, J., 2000. General jacket design and reassessment condition. Background document on Densit Grout Materials, Maersk Olie og Gas AS.

-Matsubara, N., Ohno, T., Sakai, G., Yanai, S., Ashida, M., 2006. Properties of new ultra high performance fiber reinforced concrete. In: Advances in Cement and Concrete X: Sustainability, pp. 78-81.

+Matsubara, N., Ohno, T., Sakai, G., Watanabe, Y., Ishii, S., Ashida, M., 2008. Application of a new type of ultra high strength fiber reinforced concrete to a prestressed concrete bridge. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 787-794. (in book pdf)

-Matsumoto, T., Mihashi, H., 2002. JCI_DFRCC summary report on DFRCC terminologies and application concepts. In: Proceedings of the JCI International Workshop on Ductile Fiber Reinforced Cementitious Composites (DRFCC) - Application and Evaluation (DRFCC-2002), October 2002, Takayama, Japan, pp. 59-66.

+Matsuo, S., Kanda, T., 2002. JCI Committee Report on the round robin test for the DFRCC. In: Proceedings of the JCI International Workshop on Ductile Fiber Reinforced Cementitious Composite (DFRCC) – Application and Evaluation, October 2002, Takayama, Japan, pp. 67-74.

Matte, V., Moranville, M., 1998. The leaching of the reactive powder concretes: Results on transfer properties. In: Proceedings of the Symposium on Nondestructive Characterization of Materials in Aging Systems, 30 November – 4 December 1997, Boston, Massachusetts, USA, Eds. R.L. Crane, J.D. Achenbach, S.P. Shah, T.E. Matikas, P.T. Khuri-Yakub, R.S. Gilmore (Warrendale, PA: Materials Research Society, 1998), pp. 145-150.

+Matte, V., Richet, C., Moranville, M., Torrenti, J.M., 1998. Characterization of reactive powder concrete as a candidate for the storage of nuclear wastes. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 75-88.

-Matte, V., 1999. Durabilite des betons a ultra-hautes performances: Role de la matrice cementaire. These de doctorat en Genie Civil de l'ENS de Cachan et de l'Universite de Sherbrooke, 196 pgs.

Matte, V., Moranville, M., 1999. Durability of reactive powder composites: Influence of silica fume on the leaching properties of very low water/binder pastes. Cement and Concrete Composites 21(1), pp. 1-9.

Matte, V., Moranville, M., Adenot, F., Richet, C., Torrenti, J.M., 2000. Simulated microstructure and transport properties of ultra-high performance cement-based materials. Cement and Concrete Research 30(12), pp. 1947-1954.

-Matte, V., Cheyrezy, M., Moranville, M., Richet, C., Torrenti, J.M., 2001. Durability of reactive powder concrete when subjected to a leaching test. In: Proceedings of the ACI Convention, June 2001, Detroit, MI, ACI SP-200, pp. 433-445.

+Mayrhofer, C., 1994. Response of reinforced SIFCON-slabs under blast-loading. In: Proceedings of Structure under Shock and Impact III, SUSI/94, 1-3 June 1994, Madrid, Spain, Ed. P.S. Bulson, (Southampton: Computational Mechanics Publications, 1994), pp. 139-146.

+Mazanec, O., Schießl, P., 2008. Mixing time optimisation for UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 401-408. (in book pdf) (SchieBl)

+Mazanec, O., Lowke, D., Schießl, P., 2009. Mixing of high performance concrete: Effect of concrete composition and mixing intensity on mixing time. Materials and Structures, 43(3), pp. 357-365. (SchieBl) (?2010)

+Mazanec, O., Schießl, P., Gehlen, C., 2010. Fibre dispersion, rheology and mixing time of fibre reinforced UHPC. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 62, 10 pgs. (SchieBl)

+Mazzacane, P., Ricciotti, R., Teply, F., 2009. La passerelle des Anges (The Angels footbridge). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.1.1, 11 pgs. (in French)

+McCraven, S., 2007. Gold Bar Wastewater Treatment Plant – Ultra-high-performance fiber-reinforced precast concrete proves market potential. PCI Journal, pp. 32-48.

+Meade, T.M., Graybeal, B.A., 2010. Flexural response of lightly reinforced ultra-high performance concrete beams. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 101, 17 pgs.

Mehta, P.K., 1992. High-performance concrete durability affected by many factors. Concrete Construction (May), pp. 367-370.

Mehta, P.K., 1999. Advancements in concrete technology. Concrete International (June), pp. 69-76.

+Mendis, P., Ngo, T., 2008. Protection against blast loading, 4 pgs. http://www.civenv/unimelb/edu.au

Menéndez, E., Sanjuán, M.A., Andrade, C., 1998. Microstructure of ultra high-performance concretes: Compact reinforced composite (CRC) and reactive powder concrete (RPC). In: Proceedings of the Fourteenth International Congress on Electron Microscopy (ICEM14), 31 August – 4 September 1998, Cancun, Mexico, Symposium Z II, pp. 787-788. (Menendez, Sanjuan)

+Mestrovic, D., Cizmar, D., Stanilovic, V., 2007. Reactive powder concrete: Material for the 21st century. In: Proceedings of the International Conference on Computational Methods and Experiments in Materials Characterisation III, Eds. C.A. Brebbia, A.A. Mammalis (Southampton: WIT, 2007), pp. 127-133.

+Mestrovic, D., Miculinic, L., 2008. Bending resistance of high performance concrete elements. In: Proceedings of the Fourth International Conference on High Performance Structures and Materials IV, 13-15 May 2008, Algarve, Portugal, pp. 89-96.

Middendorf, B., 2005. Makro-Mikro-Nano - Nanotechnologie für die Bindemittel-und Betonentwicklung (Macro-Micro-Nano - Nanotechnology for the development of binder and concrete). Aufbereitungs-Technik/Mineral Processing 46(4), pp. 46-47. (in German and English)

-Millard, S.G., Molyneaux, T.C.K., Barnett, S.J., Gao, X., 2010. Dynamic enhancement of blast-resistant ultra high performance fibre-reinforced concrete under flexural and shear loading. International Journal of Impact Engineering 37(4), pp. 405-413.

-Mindeguia, J.C., Dhiersat, M., Simon, A., Piementa, P., 2006. Behaviour of the UHPFRC BSI at high temperatures. In: Proceedings of the International Workshop – Structures and Fire, Aveiro, Portugal, pp. 683-695.

+Mindess, S., Banthia, N., 1994. Fiber reinforced cementitious composites: Current practice and future needs. In: Proceedings of the V. Mohan Malhotra Symposium on Concrete Technology: Past, Present, and Future, Ed. P.K. Mehta (Detroit, MI, USA: American Concrete Institute, 1994) ACI SP-144-21, pp. 417-446.

-Mingzhe, A., Qingsheng, W., 2001. The compounding principle and applying prospect of the reactive powder concrete. Construction Technology 32(1), pp. 15-16.

-Mitchell, D., Chusid, M., 2008. Light weight, cost-effective blast resistance. The Military Engineer (Jan/Feb), 6 pgs. www.excedinc.com

+Mitsuda, T., Taylor, H.F.W., 1975. Influence of aluminium on the conversion of calcium silicate hydrate gels into 11 Å tobermorite at 90°C and 120°C. Cement and Concrete Research 5(3), pp. 203-210.

+Miyajima, A., Matsuyama, T., Xin, J., Yokohata, K., 2010. Prestressed concrete through girder type pedestrian bridge using ultra high strength fiber reinforced concrete - Hiketa Bridge. In: National Report - Recent Works of Prestressed Concrete Structures, Third fib Congress, 29 May - 2 June 2010, Washington, DC, Japan Prestressed Concrete Engineering Association, pp. 177-180. (in English and Japanese)

+Moeller, A., 2008. Use of UHPC in offshore wind turbine foundations. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 863-869. (in book pdf)

+Moeser, B., Pfeifer, C., Heinz, D., Gerlicher, T., Mechtcherine, V., Dudziak, L., 2010. Effect of composition and curing on microstructure of UHPC. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 130, 19 pgs.

+Mojumdar, S.C., 2001. Processing-moisture resistance and thermal analysis of macro-defect-free materials. Journal of Thermal Analysis and Calorimetry 64, pp. 1133-1139.

+Mojumdar, S.C., Chowdhury, B., Varshney, K.G., Mazanec, K., 2004. Synthesis, moisture resistance, thermal, chemical and SEM analysis of macro-defect-free (MDF) cements. Journal of Thermal Analysis and Calorimetry 78, pp. 135-144.

+Mojumdar, S.C., Mazanec, K., Drabik, M., 2006. Macro-defect-free (MDF) cements – Synthesis, thermal, chemical, SEM and magnetometric study and moisture resistance. Journal of Thermal Analysis and Calorimetry 83, pp. 135-139.

Moksnes, J., 2005. High-performance concrete – A proven material with unfulfilled potential. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-3 I, pp. 35-49.

+Mombelli, R.L., 2005. Trends e innovazione nel calcestruzzo (Trends and innovations in concrete). Materia 46, pp. 90-97. http://www.archinfo.it/articoli/0,1254,53_ART_198470,00.html (in Italian and English)

+Monai, B., Schnabl, H., 2008. Practice of UHPC in Austria. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 839-846. (in book pdf)

+Mondragon, R., 1987. SIFCON in compression. In: Proceedings of the Symposium on Fiber Reinforced Concrete: Properties and Applications, Eds. S.P. Shah, G.B. Batson (Detroit, MI, USA: American Concrete Institute, 1987) ACI SP-105-15, pp. 269-281.

+Monosi, S., Pignoloni, G., Collepardi, S., Troli, R., Collepardi, M., 2000. Modified reactive powder concrete with artificial aggregates. In: Proceedings of the Sixth CANMET/ACI International Conference on Superplasticizers and Other Chemical Admixtures in Concrete, 10-13 October 2000, Nice, France, Ed. V.M. Malhotra (Farmington Hills, MI, USA: American Concrete Institute, 2000) ACI SP-195-28, pp. 447-459.

+Moore, B., Bierwagen, D., 2004. Ultra-high performance concrete highway bridge. PCA, 22 pgs.

Moranville-Regourd, M., 2001. New cementitious systems and composite materials. In: Proceedings of the Seventh Conference and Exhibition of the European Ceramic Society, 9-13 September 2001, Brugge, Belgium, Key Engineering Materials 206-213(III), pp. 1841-1846.

-Morcous, G., Maguire, M., Tadros, M.K., 2009. Shear capacity of ultra-high-Performance concrete I-girders with orthogonal welded wire reinforcement. In: Proceedings of the Thomas T. C. Hsu Symposium: Shear and Torsion in Concrete Structures - At the ACI Fall 2009 Convention, 8-12 November 2009, New Orleans, LA, ACI SP-265, pp. 511-532.

+Moricini, G., 2009. Cement-based composites for structural use. In: Proceedings of the Fourth International Conference on Computational Methods and Experiments in Materials Characterisation, Materials Charaterisation 2009, 17-19 May 2009, New Forest, UK 64, pp. 429-438.

+Morin, V., Tenoudji, F.C., Vernet, C., Feylessoufi, A., Richard, P., 1998. Ultrasonic spectroscopic investigation of the structural and mechanical evolutions of a reactive powder concrete. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 119-126.

+Morin, V., Tenoudji, F.C., Feylessoufi, A., Richard, P., 2001. Superplasticizer effects on setting and structuration mechanisms of ultrahigh-performance concrete. Cement and Concrete Research 31(1), pp. 63-71.

Morin, V., Cohen-Tenoudji, F., Feylessoufi, A., Richard, P., 2002. Evolution of the capillary network in a reactive powder concrete during hydration process. Cement and Concrete Research 32(12), pp. 1907-1914.

+Morlat, R., Orange, G., Bomal, Y., Godard, P., 2007. Reinforcement of hydrated portland cement with high molecular mass water-soluble polymers. Journal of Materials Science 42, pp. 4858-4869.

Morris, M., XXXX. Performance Concrete. Popular Science, 1 pg.

-Moser, B., Pfeifer, C., 2007. Gefugestruktur und dauerhaftigkeit von ultrahochfestem beton. In: Tagungsband 6. Baustoffkolloquium, Freiberg, 7-8 February, Freiberg, Deutschland, pp. 7-16.

+Möser, B., Pfeifer, C., 2008. Microstructure and durability of ultra-high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 417-424. (in book pdf) (Moser)

+Mouquet, D., Bernier, G., Behloul, M., 2000. Etude du comportement a la fatigue du BPR fibre. In: Proceedings of the Fifth RILEM Symposium on Fibre-Reinforced Concrete (FRC), 13-15 September 2000, Lyon, France, pp. 769-779. (in French)

-Mrakovcic, S., 2001. Precast arch bridges made of reactive powder concrete. Faculty of Civil Engineering, Zagreb.

-Mrakovcic, S., 2001. Montazni lucni mostovi u betonu od reaktivnog praha. Magistarski rad, Zagreb.

-Mrakovcic, S., Bjegovic, D., Bleiziffer, J., Candrlic, V., 2002. Veliki montazni lucni mostovi od betona RPC200. Interdisciplinarno znanstveno – strucni simpozij graditeljstvo I okolis HDGK, Brijuni.

-Mrakovcic, S., Bjegovic, D., Bleiziffer, J., Candrlic, V., 2002. Large precast arch bridges designed of RPC200. Croatian National Report 2002, fib 2002 Osaka Congress.

-Mrakovcic, S., Candrlic, V., Bleiziffer, J., Hrelja, G., Skazlic, M., 2002. Gredni I lucni montazni mostovi od HPC – a I RPC – a razdvojene I jedinstvene knostrukcije, Objekti na autocestama, Ananstveno strucno savjetovanje IIDGK, Plitvicka jezera, 2002..

+Muehlbauer, C., Zilch, K., 2007. Joining of ultra high performance concrete (UHPC) members by gluing. In: Proceedings of the Third International Conference on Structural Engineering, Mechanics and Computation (SEMC), 10-12 September 2007, Cape Town, South Africa, pp. 559-560.

+Muehlbauer, C., Zilch, K., 2008. Experimental investigation of the long-term behaviour of glued UHPC joints. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 561-568. (in book pdf)

+Muehlbauer, C., Zilch, K., 2008. Joining of ultra high performance concrete (UHPC) units by gluing. In: Proceedings of the 2008 Structures Congress: Crossing the Borders, 24-26 April 2008, Vancouver, BC, Canada, 10 pgs.

+Muehlbauer, C., Zilch, K., 2010. Glued joints of ultra high performance concrete structures. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 41, 13 pgs.

-Muller, C., Droll, K., Dehn, F., 2005. Abschmitt 3 : Ausgangsstoffe. In : Sachstandsbericht Ultrahochfester Beton – Betontechnik und Bemessung, Deutscher Ausschuss fur Stahlbeton (DafStb), Entwurf : Stand 12.03.2005.

+Müller, C., Palecki, S., Möser, B., Franke, L., 2010. Durability of ultra-high performance concrete (UHPC). In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 135, 14 pgs. (Muller, Moser)

+Müller, H.S., Haist, M., 2008. Building in the context of existing structures - A future market - Innovative concrete construction methods - Opportunities for prefabrication? (Bauen im Bestand - Markt der Zukunft - Innovative Betonbautechniken - Potenziale für die Vorfertigung?). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 74(2), pp. 144-145. (in English and German) (Muller)

+Müller, H.S., Scheydt, J.C., 2009. The durability potential of ultra-high performance concretes - Opportunities for the precast concrete industry (Dauerhaftigkeitspotenzial ultrahochfester betone - Chancen für die Betonfertigteilindustrie). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(2), pp. 17-19. (in English and German) (Muller)

+Müller, H.S., Burkart, I., Budelmann, H., Ewert, J., Mechtcherine, V., Dudziak, L., Müller, C., Eppers, S., 2010. Time-dependent behaviour of ultra high performance concrete (UHPC). In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 178, 15 pgs. (Muller)

+Müller, U., Meng, B., Kühne, H.-C., Nemecek, J., Fontana, P., 2008. Micro texture and mechanical properties of heat treated and autoclaved ultra high performance concrete (UHPC). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 213-220. (in book pdf) (Muller, Kuhne)

-Murakami, H., Sugano, S., Izumi, N., Shirai, K., 2005. An experimental study of restoring force characteristics of precast shell columns using 200 N/mm2 UFC. In: Proceedings of the Japan Concrete Institute 28(2), pp. 655-660. (in Japanese)

-Murakami, H., 2007. A study on evaluation of ultimate strength of columns considering tensile behavior of UFC. Masters Thesis, Hiroshima University. (in Japanese)

-Musha, H., et al, 2004. Segment structure that used ultra-high strength fiber reinforced concrete in Japan. FIB Symposium 2004 on Segmental Construction in Concrete, New Delhi.

+Musha, H., Ishida, Y., Inahara, H., 2010. Prestressed concrete pedestrian bridge using ultra-high strength fiber reinforced concrete - Mikaneike Bridge. In: National Report - Recent Works of Prestressed Concrete Structures, Third fib Congress, 29 May - 2 June 2010, Washington, DC, Japan Prestressed Concrete Engineering Association, pp. 169-172. (in English and Japanese)

— N —

+Naaman, A.E., Homrich, J.R., 1989. Tensile stress-strain properties of SIFCON. ACI Materials Journal 86(3), pp. 244-251.

+Naaman, A.E., 1991. Exploring a new high performance concrete: SIFCON. Cement in the Future 3(1), pp. 4-5.

+Naaman, A.E., Otter, D., Najm, H., 1991. Elastic modulus of SIFCON in tension and compression. ACI Materials Journal 88(6), pp. 603-612.

+Naaman, A.E., 1992. SIFCON: Tailored properties for structural performance. In: Proceedings of the International Workshop on High Performance Fiber Reinforced Cement Composites, pp. 18-38.

+Naaman, A.E., Reinhardt, H.W., Fritz, C., 1992. Reinforced concrete beams with SIFCON matrix. ACI Structural Journal 89(1), pp. 79-88.

+Naaman, A.E., Reinhardt, H.W., Fritz, C., Alwan, J., 1993. Non-linear analysis of RC beams using a SIFCON matrix. Materials and Structures 26, pp. 522-531.

+Naaman, A.E., Reinhardt, H.W., 2003. High performance fiber reinforced cement composites HPFRCC-4: International RILEM Workshop, 16-18 June 2003, Ann Arbor, Michigan. Materials and Structures 36, pp. 710-712.

+Naaman, A.E., Reinhardt, H.W., 2006. Proposed classification of HPFRC composites based on their tensile response. Materials and Structures 39, pp. 547-555.

+Naaman, A.E., 2007. Tensile strain-hardening FRC composites: Historical evolution since the 1960. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 181-202.

+Nagashima, T., Sugano, S., Kimura, H., Ichikawa, A., 1992. Monotonic axial compression test on ultra-high-strength concrete tied columns. In: Proceedings of the Tenth World Conference on Earthquake Engineering, 1992, Madrid, Spain 5, pp. 2983-2988.

+Nagataki, S., 1994. Mineral admixtures in concrete: State of the art and trends. In: Proceedings of the V. Mohan Malhotra Symposium on Concrete Technology: Past, Present, and Future, Ed. P.K. Mehta (Detroit, MI, USA: American Concrete Institute, 1994) ACI SP-144-22, pp. 447-482.

-Nakazawa, H., Kumagai, H., Tsukagoshi, H., Kurose, Y., 2001. Development of ultra-high strength reinforced concrete structures, Part 4: Loading test on the shear behavior of beam-column joints. In: Summary of Technical Papers of Annual Meeting of the Architectural Institute of Japan C-2, pp. 663-664. (in Japanese)

+Nanni, A., 1992. Properties of aramid-fiber reinforced concrete and SIFCON. Journal of Materials in Civil Engineering 4(1), pp. 1-15.

-Naudin, N., Toutlemonde, F., 1999. Essai sur poutrelle BSI. Rapport d'etude confidentiel, propriete de la societe EGI, contrat no. 34209998, LCPC (janvier).

-Neeley, B.D., Frew, D.J., 1995. Development and characterization of a high-strength, high-density nylon fiber reinforced and slurry-infiltrated-mat concrete for projectile penetration studies. Technical report SL-95-17, US Army Engineer Waterways Experiment Station, Vicksburg, MS.

+Neeley, B.D., Walley, D.M., 1995. VHS concrete. The Military Engineer, 87(572), pp. 36-37.

Negele, A., 2005. Durchstanzverhalten van Flachdecken mit neuer Schubbewehrung und Drucklagern aus UHPC (Punching performance of flat slabs with new shear reinforcement and thrust bearings made of UHPC). Jahrgang Beton- und Stahlbetonbau 100(S2), pp. 153-156. (in German)

-Ng, K.M., Tam, C.M., Tam, V.W.Y., 2010. Studying the production process and mechanical properties of reactive powder concrete: A Hong Kong study. Magazine of Concrete Research 62(9), pp. 647-654.

Ngo, T., Mendis, P., Lam, N., Cavill, B., 2005. Performance of ultra-high strength concrete panels subjected to blast loading. In: Proceeding of the 2005 Science, Engineering and Technology Summit – Recent Advances in Counter-Terrorism Technology and Infrastructure Protection, Eds. P. Mendis, J. Lai, E. Dawson (Research Network for a Secure Australia (RNSA)) 14, pp. 193-208.

+Ngo, T., Mendis, P., Krauthammer, T., 2007. Behavior of ultrahigh-strength prestressed concrete panels subjected to blast loading. Journal of Structural Engineering 133(11), pp. 1582-1590.

+Ngo, T., Mendis, P., 2008. Computer simulation of concrete structures subjected to blast and impact. Electronic Journal of Structural Engineering 8, pp. 90-98.

-Nguyen, V.Q., 1998. RPC subjected to high temperature. Undergraduate Thesis, UNSW.

-Nicolaides, D., 2004. Fracture and fatigue of CARDIFRC. PhD thesis. UK: Cardiff University, UK.

+Nicolaides, D., Kanellopoulos, A., Karihaloo, B.L., 2006. Effect of fibre distribution on the fatigue performance and autogenous shrinkage of CARDIFRC®. In: Proceedings of the International Symposium on Measuring, Monitoring and Modeling Concrete Properties, July 2006, Alexandroupolis, Greece, Ed. M.S. Konsta-Gdoutos (Netherlands: Springer, 2006), pp. 3-16.

-Nicolaides, D., Kanellopoulos, A., Karihaloo, B.L., 2010. Fatigue life and self-induced volumetric changes of CARDIFRC. Magazine of Concrete Research 62(9), pp. 679-683.

-Nielsen, C.V., 1995. Ultra high-strength steel fibre reinforced concrete, Part I: Basic strength properties of compresit matrix. Technical University of Denmark 323.

-Nielsen, C.V., 1995. Ultra high-strength steel fibre reinforced concrete, Part II. Department of Structural Engineering, Technical University of Denmark 324.

-Nishizawa, T., Obata, H., Sasaki, I., Kokubu, K., 2005. Viscoelastic behavior of ultra-thin layer whitetopping using ultra high strength fiber reinforced concrete. In: Proceedings of the Sixtieth Annual Meeting of JSCE 5-107, pp. 213-214.

Noik, C., Rivereau, A., 1999. Oilwell cement durability. In: Proceedings of the 1999 SPE Annual Technical Conference and Exhibition: 'Drilling and Completion', 3-6 October 1999, Houston, TX (Society of Petroleum Engineers), pp. 303-308.

+Nöldgen, M., Riedel, W., Fehling, E., Thoma, K., 2008. Impact on structural ultra high performance concrete (UHPC) elements in high-rise buildings. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 759-766. (in book pdf) (Noldgen)

-Noldgen, M., Millon, O., Klaus, T., Fehling, E., 2009. Materials properties of ultra high performance concrete (UHPC) at high strain rates (Hochdynamishche Materialeigenschaften von Ultrahochleistungsbeton (UHPC). Beton- und Stahlbetonbau 104(11), pp. 717-727.

Nowodworski, H., Rosiak, K., 2002. Ultra-high performance concrete, with ductility - The world's first long-span roof in Ductal - The Joppa clinker dome roof. In: Proceedings of the CSCE Thirtieth Annual Conference Proceedings: 2002 Challenges Ahead – Fourth Structural Specialty Conference, Fourth Transportation Specialty Conference and Second Material Specialty Conference, 5-8 June 2002, Montreal, QB, Canada (Canadian Society for Civil Engineering), pp. 1199-1207.

— O —

-O'Neil, 1995. Reactive Powder Concrete: A very-high performance concrete material. In: Proceedings of the Corps of Engineers Structural Engineering Conference, H.W. Jones, B.D. Fehl, (Eds.), 28-30 August 1995, San Antonio, TX, pp. 1195-1204.

+O'Neil, E.F., Dowd, W.M., 1995. Reactive powder concrete (RPC): A new material for the construction industry. In: Proceedings of the Third National Concrete and Masonry Engineering Conference (NCMEC), 15-17 June 1995, San Francisco, CA, pp. 43-50.

+O'Neil, E.F., Dauriac, C.E., Gilliland, S.K., 1996. Development of reactive powder concrete (RPC) products in the United States construction market. In: Proceedings of the ACI Convention Sessions on High-Strength Concrete: An International Perspective, November 1995, Detroit, MI, USA, Ed. J.A. Bickley (Farmington Hills, MI, USA: American Concrete Institute: 1996) ACI SP-167-12, pp. 249-261.

-O'Neil, E.F., Dowd, W.M., 1996. High-performance pipe products fabricated with reactive powder concrete. In: Proceedings of the Materials Engineering Conference, 10-14 November 1996, Washington, DC 2, pp. 1320-1329.

O'Neil, E.F., Neeley, B.D., Cargile, J.D., 1999. Tensile properties of very-high-strength concrete for penetration-resistant structures. Shock and Vibration 6(5-6), pp. 237-245.

+O'Neil, E.F., 2008. On engineering the microstructure of high-performance concretes to improve strength, rheology, toughness, and frangibility. PhD Dissertation, Northwestern University, Evanston, IL, 228 pgs.

O'Neil, E.F., Cummins, T.K., Durst, B.P., Kinnebrew, P.G., Boone, R.N., Torres, R.X., 200X. Development of very-high-strength and high-performance concrete materials for improvement of barriers against blast and projectile penetration. Army Science Conference, 8 pgs.

-Obata, H., Nishizawa, T., Sasaki, I., Kokubu, K., 2005. Shear characteristic at interface between UFRC concrete composite material. In: Proceedings of the Sixtieth Annual Meeting of JSCE 5-109, pp. 217-218.

-Obata, H., Nishizawa, T., Sasaki, I., Kokubu, K., 2006. Bonding characteristic of ultra high strength fiber reinforced concrete with inorganic grout material. In: Proceedings of the Sixty-first Annual Meeting of JSCE 5-117, pp. 233-234.

+Obata, H., Nishizawa, T., Sasaki, I., Katagiri, M., 2008. Effect of improved interfacial bond on whitetopping using ultra high strength fiber reinforced concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 243-250. (in book pdf)

-Obata, K., Sugano, S., Araki, H., Hsirai, K., Kimura, H., Murakami, Y., Kitakaze, N., 2003. An experimental study on the compressive properties of super-high-strength concrete. In: Summary of Technical Papers of Annual Meeting of the Architectural Institute of Japan C-2, pp. 13-14. (in Japanese)

+Oesterlee, C., Denarié, E., Brühwiler, E., 2007. UHPFRC protection layer on the crash barrier walls of a bridge. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 203-210. (Denarie, Bruhwiler)

-Oesterlee, C., Denarie, E., Bruhwiler, E., 2007. In-situ casting of UHPFRC protection layer on crash barrier walls. In: Proceedings of Advances in Construction Materials – Symposium in honour of Hans W. Reinhardt, University of Stuttgart, Germany.

+Oesterlee, C., Sadouki, H., Brühwiler, E., 2008. Structural analysis of a composite bridge girder combining UHPFRC and reinforced concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 647-654. (in book pdf) (Bruhwiler)

+Oesteree, C., Brühwiler, E., Denarié, E., 2009. Tragverhalten von Verbundbauteilen aus bewehrtem UHFB und Stahibeton (Structural behavour of composite elements combining reinforced ultra high performance fiber reinforced concrete (uhpfrc) and reinforced concrete). Beton- und Stahlbetonbau 104(8), pp. 462-470. (in German) (Bruhwiler, Denarie)

+Oluokun, A.F., Malak, S.A.J., 1999. Toughness, ductility, flexural, and compressive behavior of metallic aggregate concrete. ACI Materials Journal 96(3), pp. 320-332.

+Ono, T., 2009. Application of ultra-high-strength fiber reinforced concrete for irrigation channel repair works. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.1.2, 9 pgs.

+Orange, G., Acker, P., Vernet, C., 1999. A new generation of UHP concrete: Ductal® - Damage resistance and micromechanical analysis. In: Proceedings of the Third International RILEM Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC3), May 1999, Mainz, Germany, pp. 101-111.

+Orange, G., Dugat, J., Acker, P., 2000. Ductal: New ultra high performance concretes. Damage, resistance and micromechanical analysis. In: Proceedings of the Fifth RILEM Symposium on Fiber-Reinforced Concrete (FRC), BEFIB 2000, 12-15 September 2000, Lyon, France, P. Rossi, G. Chanvillard, (Eds.). (Bagneaux, France: RILEM Publications, 2000), pp. 781-790.

-Orgass, M., Dehn, F., 2004. Ultrahochfester beton (UHFB) – Ein uberblick. BetonWerk International.

Orgass, M., Klug, Y., 2004. Fibre reinforced ultra-high strength concretes. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 637-647.

Orgass, M., Klug, Y., 2004. Steel fibre reinforced ultra-high strength concretes. LACER (LEIPZIG Annual Civil Engineering Report) 9, 12 pgs.

Ozyildirim, C., 2005. History of HPC in Virginia. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-51 II, pp. 821-831.

— P —

-Paduli, F., 1999. High temperature effects on RPC. Undergraduate Thesis, UNSW.

+Palecki, S., Setzer, M.J., 2008. Ultra-high-performance concrete under frost and de-icing salt attack. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 443-451. (in book pdf)

-Pang, B.J., Wang, L.W., Yang, Z.Q., Chi, R.Q., 2011. The effect on dynamic properties of reactive powder concrete under high temperature burnt and its micro-structure analysis. . In: Proceedings of the Ninth International Conference on Fracture and Damage Mechanics, FDM 2010, 20-22 September 2009, Nagasaki, Japan, Key Engineering Materials – Advances in Fracture and Damage Mechanics IX, FDM 2010, Key Engineering Materials 452-453, pp. 209-112.

+Pansuk, W., Sato, H., Sato, Y., Shionaga, R., 2008. Tensile behaviors and fiber orientation of UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 161-168. (in book pdf)

+Papakonstantinou, C.G., Katakalos, K., 2008. A hybrid strengthening system for the rehabilitation of reinforced concrete. In: Proceedings of SAMPE'08 - Material and Process Innovations: Changing our World, 18-22 May 2008, Long Beach, CA, 52, 15 pgs.

Parameswaran, V.S., Balasubramanian, K., Gopalakrishnan, S., 2005. Steel fiber reinforced concrete – Applications in India. In: Proceedings of the Indo-US Workshop on High-Performance Cement-Based Concrete Composites, 2005, Chennai, India, Eds. J.J. Biernacki, S.P. Shah, N. Lakshmana, S. Gopalakrishnan (Westerville, Ohio: The American Ceramic Society, 2005), pp. 93-100.

+Parant, E., 2003. Mecanismes d'endommagement et comportements mecaniques d'un composite cimentaire fibre multi-echelles sous sollicitations severes: fatigue, choc, corrosion. PhD from École Nationale des Ponts et Chaussées (ENPC), Paris, France, 248 pgs. (in French)

Parant, E., Rossi, P., Boulay, C., 2003. Mechanical behavior of a new ultra-high performance cement composite under plastic fatigue loading. In: Proceedings of the FIB 2003 Symposium on Concrete Structure in Seismic Regions, 6-8 May 2003, Athens, Greece (Athens, Greece: Technical Chamber of Greece), 6 pgs.

-Parant, E., Rossi, P., 2004. Damage mechanism of a multiscale fiber reinforced composite – I. Damage when submitted to pulsed loads. Bulletin des Laboratoires des Ponts et Chaussees, Paris, France 248, pp. 73-81.

+Parant, E., Rossi, P., Boulay, C., 2004. Fatigue behavior of new ultra-high performance cement composite. In: Proceedings of the Sixth International RILEM Symposium on Fibre Reinforced Concretes (FRC) (BEFIB 2004), 20-22 September 2004, Varenna, Italy, Eds. M. di Prisco, R. Felicetti, G.A. Plizzari, (RILEM Publications SARL), pp. 1353-1360.

+Parant, E., Rossi, P., Le Maou, F., 2007. Durability of a multiscale fibre reinforced cement composite in aggressive environment under service load. Cement and Concrete Research 37, pp. 1106-1114.

+Parant, E., Rossi, P., Boulay, C., 2007. Fatigue behavior of a multi-scale cement composite. Cement and Concrete Research 37, pp. 264-269.

+Parant, E., Rossi, P., Jacquelin, E., Boulay, C., 2007. Strain rate effect on bending behavior of new ultra-high-performance cement-based composite. ACI Materials Journal 104(5), pp. 458-463.

Park, H., 2003. Model-based optimization of ultra high performance concrete highway bridge girders. MS Thesis – Massachusetts Institute of Technology (MIT), 139 pgs.

-Park, H., Chuang, E., Ulm, F.-J., 2003. Model-based optimization of ultra high performance concrete highway bridge girders. MIT-CEE Report R03-01 to the Federal Highway Administration.

Park, H., Chuang, E., Ulm, F.-J., 2003. Model-based design of UHPC highway bridge girders. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 2 pgs.

-Park, J.J., Koh, D.T., Kang, S.T., Ryu, G.S., Kim, S.W., Lee, J.H., 2004. The effect of material factors on the compressive strength of ultra-high strength steel fiber reinforced cementitious composites. In: Proceedings of the Korean Concrete Institute 16(1), pp. 288-291.

+Park, J.J., Kang, S.T., Koh, K.T., Kim, S.W., 2008. Influence of the ingredients on the compressive strength of UHPC as a fundamental study to optimize the mixing proportion. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 105-112. (in book pdf)

+Park, J.-J., Ryu, G.-S., Kang, S.-T., Kim, S.-W., 2008. The influence of the amount of silica fume on the mechanical property of ultra-high performance concrete. Key Engineering Materials 385-387, pp. 701-704.

-Park, J.-J., Kim, S.-W., Ryu, G.-S., Lee, K.-M., 2011. The influence of chemical admixtures on the autogenous shrinkage ultra-high performance concrete. In: Proceedings of the Ninth International Conference on Fracture and Damage Mechanics, FDM 2010, 20-22 September 2009, Nagasaki, Japan, Key Engineering Materials – Advances in Fracture and Damage Mechanics IX, FDM 2010 452-453, pp. 725-728.

+Parsekian, G.A., Shrive, N.G., Brown, T.G., Kroman, J., Perry, V., Boucher, A., 2008. Static and fatigue tests on Ductal® UHPFRC footbridge sections. In: Proceedings of the Fifth ACI/CANMET/IBRACON International Conference on High-Performance Concrete Structures and Materials, 18-20 June 2008, Manaus, Amazon State (AM), Brazil, Eds. E. P. Figueiredo, T. C. Holland, V. M. Malhotra, P. Helene. ACI SP-253, pp. 273-290.

-Parsekian, G.A., Shrive, N.G., Brown, T.G., Kroman, J., Seibert, P.J., Perry, V.H., Boucher, A., Ghoneim, G., 2009. Full-scale testing of a fibre-reinforced concrete footbridge. Proceedings of the Institution of Civil Engineers: Bridge Engineering 162(4), pp. 157-166.

PCA, 2006. Ultra high performance concrete: A bibliography. PCA Library Bibliography Series No. 27 (LB27) (Portland Cement Association, 2006), 30 pgs.

+Pelke, E., 2003. Neue Bauweisen im Ingenieurbau aus der Sicht der Hess. Straßen- und Verkehrsverwatung. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 69-78. (in book pdf) (in German)

-Peng, Y., Hu, S., Ding, Q., 2010. Preparation of reactive powder concrete using fly ash and steel slag powder. Journal Wuhan University of Technology, Materials Science Edition 25(2), pp. 349-354.

-Perry, V., 1998. Industrialization of ultra-high performance ductile concrete. In: Proceedings of the Symposium on High-Strength/High-Performance Concrete, University of Calgary.

Perry, V., 2001. Reactive powder concrete. PCI Journal 46(4), pg. 118.

-Perry, V., Carruthers, B., 2005. Ductal® - ultra-high performance material with ductility: The technology, material properties and examples. In: Proceedings of the Twenty-sixth International Conference on Cement Microscopy, 18-22 April 2004, San Antonio, TX.

Perry, V., Zakariasen, D., 2005. The first use of UHPC technology for an innovative LRT station canopy, Shawnessy, Calgary, Alberta. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-71 II, pp. 1119-1131.

+Perry, V., Scalzo, P. Weiss, G., 2007. Innovative precast deck panels and field cast UHPC joints for bridge superstructures – CN overhead bridge at Rainy Lake, Ontario. In: Proceedings of the CSCE 2007 Annual General Meeting and Conference of the Canadian Society for Civil Engineering, 6-9 June 2007, Yellowknife, Northwest Territories, Canada 1, pp. 794-801.

+Perry, V., Weiss, G., 2009. Innovative field cast UHPC joints for precast bridge decks - Design, prototype testing and projects. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.2.4, 12 pgs.

-Perry, V.H., 2001. Q&A: What is reactive powder concrete: HPC Bride Views 16. http://www.cement.org/pdf-16julaug01.pdf (from PCA concrete tech - First use of UHPC for an Innov Train Station Canopy)

Perry, V.H., Zakariasen, D., 2003. Overview of UHPC technology, materials, properties, markets and manufacturing. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 18 pgs.

Perry, V.H., Zakariasen, D., 2004. First use of ultra-high performance concrete for an innovative train station canopy. Concrete Technology Today (August), pp. 1-2.

+Perry, V.H., Seibert, P.J., 2008. The use of UHPFRC (Ductal®) for bridges in North America: The technology, applications and challenges facing commercialization. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 815-822. (in book pdf)

+Perry, V.H., Royce, M., 2010. Innovative field-cast UHPC joints for precast bridge decks (side-by-side deck bulb-tees), village of Lyons, New York: Design, prototyping, testing and construction. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 401, 13 pgs.

-Perry, V.H., Scalzo, P., Weiss, G., xxxx. Innovative field cast UHPC joints for precast deck panel bridge superstructures – CN overhead bridge at Rainy Lake, Ontario.

-Petel, A., Picard, L., Imberty, F., Raoul, J., 2010. Design of an innovative road bridge with advanced steel and concrete. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE) 20(2), pp. 166-168.

+Peters, H., Bänziger, H., Poltera, M., 2008. Durable adhesive bonding with epoxy resins in civil engineering construction. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 267-274. (in book pdf) (Banziger)

-Peters, S.J., Rushing, T.S., Landis, E.,N., Cummins, T.K., 2010. Nanocellulose and microcellulose fibers for concrete. Transportation Research Record 2142, pp. 25-28.

+Petitjean, J., Resplendino, J., 2002. French recommendations for ultra-high performance fiber-reinforced concrete. In: Proceedings of the Sixth International Symposium on High Strength High Performance Concrete, 2002, Leipzig, Germany 6(1), pp. 485-498.

-Pfeifer, A., Schneider, U., Horvath, J., 2000. Auswirkungen der Nachbehandlung bei hoheren Termperaturen auf die Druckfestigkeit von Reactive Powder Concrete. Diplomarbeit, Technische Universitat Wien.

+Pfeifer, C., Möser, B., Stark, J., 2007. Hydratation und Gefügeentwicklung von ultrahochfestem Beton. In: Jahrestagung der Fachgruppe Bauchemie, 27-28 September 2007, Siegen, Deutschland, GDCh-Monographi Band 37, pp. 47-54. (in German) (Moser)

-Pfeifer, C., Möeser, B., Giebson, C., Stark, J., 2009. Durability of ultra-high-performance concrete. In: Proceedings of the Tenth ACI International Conference on Recent Advances in Concrete Technology and Sustainability Issues, 14-16 October 2009, Seville, Spain, ACI SP-261, pp. 1-16.

+Pfeifer, C., Moeser, B., Weber, C., Stark, J., 2010. Pozzolanic reaction of silica fume in ultra-high performance concrete. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 153, 13 pgs. (Möser, Moser)

-Pfeifer, C., Möser, B., Stark, J., 2010. Hydration, phase and microstructure development of Ultra-High Performance Concrete (Hydration, Phasen- Und Gefügeentwicklung von Ultrahochfestem Beton). ZKG International 63(10), pp. 71-79. (in German)

-Pfeifer, C., Möser, B., Weber, C., Stark, J., 2010. Investigations of the Pozzolanic Reaction of Silica Fume in Ultra High Performance Concrete (UHPC). In: Proceedings of the International RILEM Conference on Material Science (pro077), Ed. W. Brameshuber, 12 pgs.

+Phan, L.T., Carino, N.J., 2003. Code provisions for high strength concrete strength – temperature relationship at elevated temperatures. Materials and Structures 36, pp. 91-98.

Philippot, S., Masse, S., Zanni, H., Nieto, P., Maret, V., Cheyrezy, M., 1996. ^{29}Si NMR study of hydration and pozzolanic reactions in reactive powder concrete (RPC). Magnetic Resonance Imaging 14(7-8), pp. 891-893.

+Philippot, S., Korb, J.P., Petit, D., Zanni, H., 1998. Analysis of microporosity and setting of reactive powder concrete by proton nuclear relaxation. Magnetic Resonance Imaging 16(5/6), pp. 515-519.

Philippot, S., Korb, J.-P., Petit, D., Counio, G., Zanni, H., 1998. Analysis of microporosity of reactive powder concrete by proton nuclear relaxation. Journal de Chimie Physique et de Physico-Chimie Biologique 95(2), pp. 332-336.

+Philippot, S., Korb, J.P., Petit, D., Gounio, G., Zanni, H., Maret, V., 2001. Setting and microporosity of reactive powder concrete: proton nuclear relaxation and high resolution solid NMR studies. In: Proceedings of the Second International RILEM Workshop on Hydration and Setting: Why does cement set?, pp. 227-233.

-Piculin, S., Radic, J., Gukov, I., 2001. Effective use of reactive powder concrete in arch bridges. In: Proceedings of Our World in Concrete and Structures, 2001, Singapore, pp. 543-548.

Piculin, S., Radic, J., Bjegovic, D., 2003. Sea-salt resistance of prestressed rpc beams. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 14 pgs. (Radić, Bjegović)

-Pierard, J., 2003. Early-age shrinkage characterization of high and ultra-high performance concretes. Civil Engineering Graduate Thesis, Department of Civil Engineering, University of Brussels, Brussels. (in French)

Pimienta, P., Chanvillard, G., 2004. Retention of the mechanical performances of Ductal® specimens kept in various aggressive conditions. In: Proceedings of the Fib Symposium on Concrete Structures: The Challenge of Creativity, 24-28 April 2004, Avignon, France (fib, AFGC), 6 pgs.

-Pimienta, P., Chanvillard, G., 2005. Durability of UHPFRC specimens kept in various aggressive environments. In: Proceedings of the 10 DBMC International Conference on Durability of Building Materials and Components, April 2005, Lyon, France.

+Pimienta, P., Mindeguia, J.-C., Simon, A., Behloul, M., 2009. Behaviour of UHPFRC at high temperatures. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.3.2, 16 pgs.

+Piscaer, B.M., 2004. Fertilizations from the refractories industry. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, September 13-15, 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 615-622.

-Plank, J., Schröfl, C., Gruber, M., 2009. Use of a supplemental agent to improve flowability of ultra-high- performance concrete. In: Proceedings of the Ninth ACI International Conference on Superplasticizers and Other Chemical Admixtures, 12-15 October 2009, Seville, Spain, ACI SP-262, pp. 1-16.

Plé, O., Bayard, O., 2002. Preliminary study of multiscale analysis in fibre reinforced concrete. Materials and Structures/Materiaux et Constructions 35(249), pp. 279-284. (Ple, Pie)

Plé, O., Bayard, O., 2005. Preliminary modeling of internal heterogeneities in fibre reinforced concrete. Materials and Structures/Materiaux et Constructions 38(277), pp. 359-366. (Ple, Pie)

-Plumey, S., Jungwirth, J., Muttoni, A., 2002. Comportement des elements en beton a ultra hautes performances. EPFL-IS-BETON, Lausanne.

Poitou, A., Chinesta, F., Bernier, G., 2001. Orienting fibers by extrusion in reinforced reactive powder concrete. Journal of Engineering Mechanics 127(6), pp. 593-598.

-Poon, C.S., Wassel, L.E., Groves, G.W., 1988. Stability of macro-defect-free cement, Mater. Sci. Technol., 4, pp. 993-996.

+Popoola, O., Kriven, W.M., Young, J.F., 1990. Electron microscopy of a macro defect-free cement. In: Proceedings of the Twelfth International Congress for Electron Microscopy, 1990, San Francisco, CA, pp. 1068-1069.

+Popoola, O., Kriven, W.M., Young, J.F., 1991. High-resolution electron microscopy and microchemical characterisation of a polyvinyl alcohol acetate/calcium aluminate composite (macro-defect-free cement). Ultramicroscopy 37(1-4), pp. 318-325.

+Popoola, O.O., Kriven, W.M., Young, J.F., 1991. Microstructural and microchemical characterization of a calcium aluminate-polymer composite (MDF cement). Journal of the American Ceramic Society 74(8), pp. 1928-1933.

Porteneuve, C., Zanni, H., Korb, J.-P., Petit, D., 2001. Water leaching of high and ultra high performance concrete: A nuclear magnetic resonance study. Chimie (Chemistry) 4, pp. 809-814.

Porteneuve, C., Zanni, H.N., Vernet, C., Kjellsen, K.O., Korb, J.-P., Petit, D., 2001. Nuclear magnetic resonance characterization of high- and ultrahigh-performance concrete - Application to the study of water leaching. Cement and Concrete Research 31(12), pp. 1887-1893.

Porteneuve, C., Korb, J.-P., Petit, D., Zanni, H., 2002. Structure-texture correlation in ultra-high-performance concrete: A nuclear magnetic resonance study. Cement and Concrete Research 32(1), pp. 97-101.

+Price, G., 2009. A high performance concrete designed to reduce the impact of bomb blasts is being investigated by engineers at the University of Liverpool, UK. Clay Technology Magazine (February 13), 2 pgs. http://www.iom3.org/news/bomb-proof-concrete

-Pu, X., Yan, W., Wang, C., Wan, C., Bvai, G., He, G., 1998. The preparation technology of the ultra high strength high performance concretes with strength range from 100 MPa to 150 MPa. Concrete and Cement Products 6, pp. 3-7. (in Chinese)

-Pu, X., et al, 2002. Study on the deformation properties and load bearing capacity of kilometer compressible material made from ultra high strength concrete encased in the steel tubes. In: Proceedings of the National High Strength and High Performance Concrete Workshop, Fuzhou, China.

Pu, X., Wan, C., Wang, Y., Pu, H., Wang, C., 2004. Kilometer compressible material and its preparation. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 783-796.

Pu, X.-C., Wang, C., Yang, C.-H., Wang, Z.-Q., 2006. Research on preparation of ultra-high strength and high performance concrete with low quality fine aggregate. Key Engineering Materials 302-303 (January), pp. 356-362.

+Pushpalal, G.K.D., Kobayashi, T., Hasegawa, M., 1997. High alumina cement-pheno resin composite: Water resistivity and effect of post hydration of unreacted cement on durability. Cement and Concrete Research 27(9), pp. 1393-1405.

+Pushpalal, G.K.D., Kawano, T., Kobayashi, T., Hasegawa, M., 1997. Chemical characterization of calcium aluminate-phenol resin composite. Advanced Cement Based Materials 6(2), pp. 45-52.

Pushpalal, G.K.D., Kobayashi, T., Kawano, T., Maeda, N., 1999. The processing, properties, and applications of calcium aluminate-phenol resin composite. Cement and Concrete Research 29, pp. 121-132.

— Q —

+Qiao, Y., 2005. On the fracture toughness of calcium aluminate cement-phenol resin composites. Cement and Concrete Research 35, pp. 220-225.

— R —

+Racky, P., 2003. Wirtschaftlichkeit und Nachhaltigkeit von UHPC. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 49-57. (in book pdf) (in German)

Racky, P., 2004. Cost-effectiveness and sustainability of UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 797-805.

-Radic, J., Savor, Z., Candrlic, V., Puz, G., 2002. Designs for new bridges on the Croatian Coast. In: Proceedings of fib 2002 Osaka Congress.

Radić, J., Čandrlić, V., Mrakovčić, S., 2003. New approach to reinforced arch bridge construction. In: Proceedings of the International Symposium - Celebrating Concrete, People and Practice, Role of Concrete Bridges in Sustainable Development (Dundee, UK: Thomas Telford Services Ltd., 2003), pp. 249-256. (Radic, Candrlic, Mrakovcic)

-Rahman, S.M.S., Molyneaux, T.C.K., Patnaikuni, I., 2004. Compressive strength of modified reactive powder concrete. In: Proceedings of the International Conference on Advances in Concrete and Construction (ICACC), 16-18 December, 2004, Hyderabad, India, pp. 999-1008.

Rahman, S., Molyneaux, T., Patnaikuni, I., 2005. Ultra high performance concrete: Recent applications and research. Australian Journal of Civil Engineering 2(1), pp. 13-20.

+Raki, L., Beaudoin, J.J., Alizadeh, R., 2009. Nanotechnology applications for sustainable cement-based products. In: Proceedings of Nanotechnology in Construction 3 (NICOM3), Eds. Z. Bittnar, P.J.M. Bartos, J. Nemecek, V. Smilauer, J. Zeman (Berlin: Springer-Verlag, 2009), pp. 119-124.

-Ralston, ?., Korman, R., 1989. Put that in a pipe and cure it. Engineering News Record 22(7), pp. 44-53.

+Ramaswamy, A., Ahmedi, M.A., 2008. New materials in structural concrete repair. Journal of Structural Engineering 35(1), pp. 26-36.

Rao, D.S.P., 2003. Current trends in concrete bridges. Indian Concrete Journal 77(7), pp. 1163-1174.

Ratvio, J., 2001. Ultralujan betonin käyttösovellukset. Esitutkimus (Preliminary study of ultra strength concrete applications). Valtion Teknillinen Tutkimuskeskus (VTT) ESPOO 2001 (Finland: Technical Research Centre of Finland (VTT) 2001), 62 pgs. (2 pdfs – secured and unsecured versions) (in Finnish)

+Ratvio, J., 2001. Preliminary study of ultra strength concrete applications. VTT Research Notes 2078, 64 pgs. (in Finnish)

-Rebentrost, M., 2005. Design and construction of the first Ductal bridge in New Zealand, In: Proceedings of the New Zealand Concrete Industry Conference, September, Auckland, New Zealand.

+Rebentrost, M., 2006. Australian experience with Ductal®: An ultra-high performance concrete. In: Proceedings of the Second International fib Congress, 5-8 June 2006, Naples, Italy, 11 pgs.

-Rebentrost, M., Cavill, B., 2006. Reactive powder concrete bridges. In: Proceedings of the AustRoads Sixth Bridge Conference, Perth, Australia.

+Rebentrost, M., Wight, G., 2008. Behaviour and resistance of ultra high performance concrete to blast effects. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 735-742. (in book pdf)

+Rebentrost, M., Wight, G., 2008. Experience and applications on ultra-high performance concrete in Asia. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 19-30. (in book pdf)

+Rebentrost, M., Wight G., 2009. Investigation of UHPFRC slabs under blast loads. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.1.6, 8 pgs.

+Rebentrost, M., Wight, G., 2009. UHPC perspective from a specialist construction company. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.1.5, 10 pgs.

+Rebentrost, M., Wight, G., XXXX. Behaviour and resistance of ultra high performance concrete to blast effects. Australia, 8 pgs.

+Reda, M.M., Shrive, N.G., 1998. A new ultra high performance concrete using micro carbon fibres. In: Proceedings of the Annual Conference of the Canadian Society for Civil Engineering, 10-13 June 1998, Halifax, Nova Scotia, pp. 329-338.

Reda, M.M., Shrive, N.G., Gillott, J.E., 1999. Microstructural investigation of innovative UHPC. Cement and Concrete Research 29(3), pp. 323-329.

Reda Taha, M.M., Shrive, N.G., 2002. Ultra high performance concrete (UHPC) anchors for post-tensioning CFRP tendons: A step towards metal-free structures. Concrete International (scheduled to appear) 24(12), pp. 18 pgs.

Reda Taha, M.M., Shrive, N.G., 2003. New concrete anchors for carbon fiber-reinforced polymer post-tensioning tendons – Part 1: State-of-the-Art review/design. ACI Structural Journal 100(1), pp. 86-95.

Reda Taha, M.M., Shrive, N.G., 2003. New concrete anchors for carbon fiber-reinforced polymer post-tensioning tendons – Part 2: Development/experimental investigation. ACI Structural Journal 100(1), pp. 96-104.

Reda Taha, M.M., Shrive, N.G., 2003. UHPC anchors for post-tensioning – Ultra-high-performance concrete anchors for CFRP tendons can be a step towards metal-free structures. Concrete International 25(8), pp. 35-40.

Reddi, S.A., 2005. The role of concrete for bridges and flyovers. In: Proceedings of the International Conference on Concrete for Transportation Infrastructure, 5-7 July 2005, Dundee, Scotland, UK, Eds. R.K. Dhir, M.J. McCarthy, S. Caliskan (London: Thomas Telford Publishing, 2005), pp. 111-122.

-Redenbach, C., Vecchio, I., 2011. Statistical analysis and stochastic modelling of fibre composites. Composites Science and Technology 71(2), pp. 107-112.

Reeves, E.E., 2004. Structural reliability of ultra-high performance concrete in flexure. M.S. Thesis - College of Engineering and Technology, Ohio University, 130 pgs.

Regourd, M., 1985. Microstructure of high strength cement paste systems. In: Proceedings of the Very High Strength Cement-Based Materials Symposium, 27-28 November 1984, Boston, Massachusetts, USA, Ed. J.F. Young (Pittsburgh, PA: Materials Research Society, 1985) 42, pp. 3-17.

+Reichel, M., Sparowitz, L., Freytag, B., 2008. UHPC-segmental bridges – Material-based design principles and adapted construction methods. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 779-786. (in book pdf)

+Reichel, M., 2009. Stoffliche und konstruktionsbezogene Besonderheiten beim Einsatz von UHFB im Bruckenbau an Beispiel von drei Pilotprojekten (Special features of material and structure in the application of UHPC for bridge construction exemplified by three pilot projects). Beton- und Stahlbetonbau 104(9), pp. 589-598. (in German)

+Reichel, M., Altersberger, G., Sparowitz, L., 2009. UHPFRC-prototype for a flexible modular temporary high speed railway bridge. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.2.5, 11 pgs.

+Reichel, M., Freytag, B., Sparowitz, L., Zimmermann, W., 2009. Road Bridge WILD - UHPFRC for a segmental arch structure. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.2.1, 8 pgs.

+Reichel, M., Freytag, B., Sparowitz, L., 2010. Road bridge “Wild” - Application of the UHPFRC precast segmental construction method for an arch structure. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 282, 10 pgs.

-Reineck, K.-H., Greiner, S., Lichtenfels, S., 2003. Wasserspeicher aus UHFB – Bemessung. In: Ultrahochfester Beton – Innovationen im Bauwesen, Beitrage aus Praxis und Wissenschaft, G. Konig, K., Holschemacher, F. Dehn, Eds., (Berlin: Bauwerk Verlag, 2003), pp. 257-268.

-Reineck, K.-H., Greiner, S., 2004. Dichte HeiBwasser-Warmespeicher aus ultrahochfestem Faserfeinkombeton. Forschungsbericht zum BMBF-Vorhaben 0329606 V. Institut fur Leichtbau Entwerfen und Konstruieren (ILEK), Universitat Stuttgart.

Reineck, K.-H., Greiner, S., 2004. Tests on ultra-high performance fibre reinforced concrete designing hot-water tanks and UHPFRC-shells. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 361-374.

-Reineck, K.H., Greiner, S., Reinhardt, H.W., Jooss, M., 2004. Leak-tight hot-water tanks out of ultra-high performance fibre reinforced concrete: Part 1: Design and construction of leak-tight hot-water tanks out of ultra-high performance fibre reinforced concrete. Part 2: Material tests and tests on the density of (ultra) high performance concrete. Final report, Stuttgart University, Germany - Institute fuer Leichtbau Entwerfen und Konstruieren and Institute fuer Werstoffe im Bauwesen.

+Reineck, K.-H., Greiner, S., 2007. Scale effect and combined loading of thin UHPFRC members. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 212-218.

+Reineck, K.-H., Frettlohr, B., 2010. Test on scale effect of UHPFRC under bending and axial forces. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 54, 14 pgs.

-Reinhardt, H.W., Fritz, C., 1989. Optimization of SIFCON mix. Fibre reinforced Cements and Concretes: Recent Developments, pp. 11-20.

+Reinhardt, H.W., Naaman, A.E., 1992. International workshop – High performance fibre reinforced cement composites, 23-26 June 1991, Mainz, Germany – Introduction. Materials and Structures 25, pp. 60-62.

-Reinhardt, H.-W., JooB, M., 2003. Wasserspeicher aus UHFB – Technologie. In: Ultrahochfester Beton – Innovationen im Bauwesen, Beitrage aus Praxis und Wissenschaft, Eds. G. Konig, K. Hoschemacher, F. Dehn. Bauwerk Verlag, Berlin, pp. 239-255.

Reinhardt, H.W., 2004. Development of concrete construction in Europe. Otto Graf Journal 15, pp. 9-31.

-Reinhardt, H.-W., JooB, M., 2004. Untersuchungen zur Dichtigkeit von (Ultra)Hochleistungsbeton. Forschungsbericht zum BMBF-Vorhaben 0329606 V. Insitut fur Werksroffe im Bauwesen, Universitat Stuttgart.

+Remy, O., Wastiels, J., Cauberg, N., Piérard, J., 2008. Flexural behaviour of fibre reinforced ultra high performance concrete and the application in cladding panels. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 691-698. (in book pdf) (Pierard)

+Resplendino, J., 2000. Utilisation de beton fibre ultra-performant pour la realisation de deux ouvrages routiers (Use of ultra high performance fibre concrete for two road bridge decks). In: Proceedings of the Fifty-fourth RILEM Week : General Conference of RILEM TC Chairmen, Summer School and AFGC-RILEM Seminar on Advances in Building Materials (Seminaire RILEM, 14 septembre 2000, Paris), pp. 28-37. (in French)

-Resplendino, J., 2003. Betons fibres ultra-performants (BFUP) – Premieres recommandations et exemples d'application. In: Crongres TP Tech 11-13 Mars 2003 CNIT La defense, Paris.

-Resplendino, J., Bouteille, S., 2003. PN MIKTI Etude d'un pont mixte a dalle BFUP nervuree. CETE de Lyon, Technical Report, 46 pgs.

+Resplendino, J., Petitjean, J., 2003. French recommendations for ultra-high performance fiber-reinforced concretes. In: Proceedings of the International RILEM Workshop on Test and Design Methods for Steelfibre Reinforced Concrete, Eds. B. Schnutgen, L., Vandewalle, (RILEM Publications SARL), pp. 91-103.

Resplendino, J., Petitjean, J., 2003. Ultra-high-performance concrete: First recommendations and examples of application. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 18 pgs.

Resplendino, J., 2004. First recommendations for ultra-high performance concretes and examples of application. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 79-90.

+Resplendino, J., 2008. Ultra-high performance concrete – Recent realizations and research programs on UHPFRC bridges in France. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 31-43. (in book pdf)

+Resplendino, J., 2009. Introduction: Qu'est ce qu'un BFUP (Introduction: What is UHPFRC ?). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 1.1, 11 pgs. (in French)

+Resplendino, J., 2009. Bétons fibrés ultra performant (BFUP) - Les nouvelles recommandations AFGC (Updated AFGC recommendations). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.1.1, 8 pgs. (in French)

-Resplendino, J., xxxx. Les betons fibres ultra performants BFUP: Perspectives offertes vis-à-vis de la perennite et la maintenance des ouvrages.

-Ricciotti, R., 2001. Bridge to the future. ASCE Engineering Magazine 71(1) November.

-Ricciotti, R., 2001. The footbridge of peace, Seoul. (Paris: Jean-Michel Place editions, 2001)

Ricciotti, R., 2002. The footbridge of peace, Seoul, South Korea. Concrete 36(10) (November/December), pp. 11-13.

+Ricciotti, R., Behloul, M., 2005. Ductal – Seonyu Footbridge, Seoul. In: The Art of Precast Concrete – Colour Texture Expression, Ed. D. Bennett (Basel, Switzerland: Birkhauser, 2005), pp.156-159.

+Ricciotti, R., Lamoureux, G., Ricciotti, R., Rivillon, P., Thiriet, C., 2009. Le Stade Jean Bouin (The future roof of Jean Bouin stadium). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 2.5, 6 pgs. (in French)

+Ricciotti, R., Portelatine, J., Nicolas, F., 2009. Musée des Civilisations de l'Europe et de la Méditerranée (MuCEM) - Conception de la structure utilisant largement les BFUP. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 7.2, 10 pgs. (in French)

+Ricciotti, R., Ricciotti, R., Mazzacane, P., 2009. La Galerie Enrico Navarra (Villa Enrico Navarra). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 2.2, 7 pgs. (in French)

-Richard, P., Cheyrezy, M., Dugat, J., 1992. Mortiers a tres hautes performances, betons obtenus a partir de ce mortier et les elements fabriques avec ce mortier ou ce beton. INPI, Demande de brevet d'invention, No. 2 677 640.

-Richard, P., Cheyrezy, M., 1994. Les Betons de Poudres Reactives. In: Proceedings of the Conference in Tribute to Micheline Moranville Regourd, 1994, Sherbrooke, Canada.

+Richard, P., Cheyrezy, M., 1994. Reactive powder concretes with high ductility and 200-800 MPa compressive strength. In: Proceedings of the V. Mohan Malhotra Symposium on Concrete Technology: Past, Present, and Future, Ed. P.K. Mehta (Detroit, MI, USA: American Concrete Institute, 1994) ACI SP-144-24, pp. 507-518.

+Richard, P., Cheyrezy, M., Dugat, L., 1994. A prestressed beam without conventional reinforcing. FIP Notes (1) pp. B86-B88.

-Richard, P., Cheyrezy, M., Dugat, L., 1994. Poutre precontrainte sans armatures passives (Pretensioned beam without conventional reinforcing). In: Contribution francaise au XII congres de la FIP, 1994, Washington, DC.

Richard, P., Cheyrezy, M., 1995. Composition of reactive powder concretes. Cement and Concrete Research 25(7), pp. 1501-1511.

-Richard, P., Cheyrezy, M., 1995. Les betons de poudres reactives. Annales de l"ITBTP, 532, serie Beton 320 (Mars-Avril), pp. 85-102.

Richard, P., 1996. Materials and their uses. In: Proceedings of the Third International Conference on Intelligent Materials and the Third European Conference on Smart Structures and Materials, 3-5 June 1996, Lyon, France, Eds. P.F. Gobin, J. Tatibouet (Bellingham, Washington: SPIE - The International Society for Optical Engineering, 11996) 2779, pp. 42-47.

Richard, P., 1996. Reactive powder concrete: A new ultra-high strength cementitious material. In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-performance Concrete, 29-31 May 1996, Paris, France, Ed. F. de Larrard, R. Lacroix, pp. 1343-1349.

+Riedel, W., Wicklein, M., Thoma, K., 2008. Shock properties of conventional and high strength concrete: Experimental and mesomechanical analysis. International Journal of Impact Engineering 35, pp. 155-171.

+Riedel, W., 2009. 10 years RHT: A review of concrete modelling and hydrocode applications. In: Predictive Modeling of Dynamic Processes, Ed. S. Hiermaier (Springer Science+Business Media, 2009) 9, pp. 143-165.

-Riedel, W., Nöldgen, M., Straburger, E., Thoma, K., Fehling, E., 2010. Local damage to ultra high performance concrete structures caused by an impact of aircraft engine missiles. Nuclear Engineering and Design 240(10), pp. 2633-2642.

Riisgaard, B., Gupta, A., Mendis, P., Ngo, T., 2006. Enhancing the performance under close-in detonations with polymer reinforced CRC. Electronic Journal of Structural Engineering 6, pp. 75-79.

+Riisgaard, B., Georgakis, C.T., Olesen, J.F., Stang, H., Mendis, P., Ngo, T., 2009. Finite element analysis and experimental verification of polymer reinforced CRC improved for close-in detonation. International Journal of Impact Engineering, 19 pgs.

+Riisgaard, B., Gupta, A., Mendis, P., Ngo, T., xxxx. Finite element analysis of polymer reinforced CRC columns under close-in detonation. In: Proceedings of the Sixth European LS-DYNA Users' Conference, 2007, Gothenburg, Sweden, 10 pgs.

-Ritter, R., 2006. Spannungs-dehnungsverhalten von ultrahochfestem beton in abhangigkeit von der umschnurungswirkung. Dresden, Technische Universitat, Fakultat Bauingenieurwesen, Diplomarbeit.

+Ritter, R., Curbach, M., Trompeter, M., Tekkaya, A.E., 2009. Material behavior of an ultra-high-performance concrete forming die for sheet metal hydroforming. ACI Materials Journal 106(6), pp. 515-522.

+Rivillon, P., Portelatine, J., Nicolas, F., 2009. Expérimentation et modélisation de poteaux droits et de forme Y en BFUHP précontraints sous l'action d'un chargement vertical excentré - Projet du Musée des Civilisations de l'Europe et de la Méditerranée (MuCEM) (Experimentation and analysis of straight and Y-shaped pre-stressed columns made of UHPFRC under vertical off-centered loading). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 7.3, 16 pgs. (in French)

Rodrigues, F.A., Joekes, I., 1998. Macro-defect free cements: A new approach. Cement and Concrete Research 28(6), pp. 877-885.

-Rong, Z., Sun, W., Zhang, Y., 2010. Dynamic compression behavior of ultra-high performance cement based composites. International Journal of Impact Engineering 37(5), pp. 515-520.

-Rong, Z., Sun, W., Zhang, Y., She, W., 2010. Anti-penetration behavior of ultra-high performance steel fiber reinforced concrete and its numerical simulation. Kuei Suan Jen Hsueh Pao/Journal of the Chinese Ceramic Society 38(9), pp. 1723-1730.

-Rong, Z.-D., Sun, W., Chen, H.-S., Gu, C.-P., 2010. Mechanical behaviors and microstructure mechanism analysis of ultra high performance cementitious composites. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering 27(1), pp. 88-94. (in Chinese)

-Rong, Z.-D., Sun, W., Zhang, Y.-S., She, W., Zhang, W.-H., 2010. A study on anti-penetration characteristics of high and ultra-high performance steel fiber reinforced concrete. Dandao Xuebao/Journal of Ballistics 22(3), pp. 63-67. (in Chinese)

-Rong, Z.-D., Sun, W., Zhang, Y.-S., Zhang, W.-H., 2010. Characteristics of ultra-high performance cementitious composites under explosion. Baozha Yu Chongji/Explosion and Shock Waves 30(3), pp. 232-238. (in Chinese)

-Rossi, P. Acker, P. Malier, Y., 1987. Effect of steel fibres at two different stages: the material and the structure. Materials and Structures 20(120), pp. 436-439.

+Rossi, P., van Mier, J.G.M., Boulay, C., Le Maou, F., 1992. The dynamic behaviour of concrete: Influence of free water. Materials and Structures 25, pp. 509-514.

Rossi, P., Toutlemonde, F., Maou, F.I.F., Boulay, C., van Mier, J.G.M., 1993. Effet de vitesse dans le comportement mecanique du beton Cas de la traction directe (Speed effect in the mechanical behaviour of concrete – the case of direct tension). Bulletin de Liaison des Laboratoires des Ponts et Chaussees, 184 (March-April), pp. 71-76. (in French)

Rossi, P., van Mier, J.G.M., Toutlemonde, F., Le Maou, F., Boulay, C., 1994. Effect of loading rate on the strength of concrete subjected to uniaxial tension. Materials and Structures/Materiaux et Constructions 27(169), pp. 260-264.

+Rossi, P., Wu, X., le Maou, F., Belloc, A., 1994. Scale effect on concrete in tension. Materials and Structures 27, pp. 437-444.

-Rossi, P., Renwez, S., Belloc, A., 1995. The betons fibres a ultra-hautes performances. Bulletin de Liaison des LPC 196, pp. 61-66. (in French)

+Rossi, P., Sedran, T., Renwez, S., Belloc, A., 1995. Ultra-high-strength steel fibre reinforced concretes: Mix design and mechanical characterization. In: Fiber Reinforced Concrete: Modern Developments, Eds. N. Banthia, S. Mindess, (University of British Columbia) pp. 181-186.

-Rossi, P., Renwez, S., 1996. High performance multi modal fibre reinforced cement composites (HPMMFRCC). In: Proceedings of the Fourth International Symposium on Utilization of High Strength/High Performance Concrete, Paris, France, pp. 687-694.

-Rossi, P., Renwez, S., Guerrier, F., 1996. Les betons fibres a ultra hautes performances – L'experience actuel du LCPC. Bull. Des Laboratoires des Ponts et Chaussees 204 (juillet-aout 1996), pp. 87-95.

Rossi, P., 1997. High performance multimodal fiber reinforced cement composites (HPMFRCC): The LCPC experience. ACI Materials Journal 94(6), pp. 478-483.

+Rossi, P., 2000. Ultra-high performance fibre reinforced concretes (UHPFRC): An overview. In: Proceedings of the Fifth International RILEM Symposium on Fibre-Reinforced Concretes (FRC) (BEFIB'2000), 2000, Lyon, France, pp. 87-100.

Rossi, P., 2001. Ultra-high-performance fiber-reinforced concretes – A French perspective on approaches used to produce high-strength, ductile fiber-reinforced concrete. Concrete International 23(12), pp. 46-52.

-Rossi, P., 2002. Development of new cement composite materials for construction. In: Proceedings of the International Conference on Innovations and Developments in Concrete Materials and Construction, September 9-11, 2002, University of Dundee, Scotland, UK, Eds. R.K. Dhir, P.C. Hewlett, L.J. Csetenyi, (London: Thomas Telford, 2002), pp. 17-29.

+Rossi, P., Parant, E., Laurence, O., Fakri, P., Arca, A., 2002. Comportement mécanique d'un nouveau composite cimentaire à écrouissage positif I. Comportement en flexion (Mechanical behaviour of a new cementitious composite with strain hardening). Bulletin des Laboratoires des Ponts et Chaussees 238, pp. 25-38. (in French)

Rossi, P., 2005. Development of new cement composite materials for construction. In: Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications 219(1), pp. 67-74.

Rossi, P., Arca, A., Parant, E., Fakhri, P., 2005. Bending and compressive behaviors of a new cement composite. Cement and Concrete Research 35(1), pp. 27-33.

Rossi, P., Parant, E., 2005. Durability of an ultra-high fibre reinforced cement composite under a service state loading and in an aggressive environment. In: Proceedings of the International Conference on Cement Combinations for Durable Concrete, 5-7 July 2005, Dundee, Scotland, Eds. R.K. Dhir, T.A. Harrison, M.D. Newlands (London: Thomas Telford Publishing, 2005), pp. 99-106.

+Rossi, P., Parant, E., 2006. Mechanical behaviour of an ultra-high performance fibre reinforced cement composite submitted to impact loading conditions. In: Proceedings of the International RILEM Workshop on High Performance Fiber Reinforced Cementitious Composites in Structural Applications, Eds. G. Fischer, V.C. Li, (RILEM Publications SARL), pp. 539-547.

Rougeau, P., Borys, B., 2004. Ultra-high performance concrete with ultrafine particles other than silica fume. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 213-225.

-Rougeau, P., 2005. Ultrafine particles for HPC and UHP. In. Proceedings of the Eighteenth BIBM International Congress and Exhibition, 2005, Amsterdam.

-Roux, N., Andrade, C., Sanjuan, M.A., 1995. Etude experimentale sur la durabilite des beton de poudres reactives/Experimental study of the durability of reactive powder concretes (RPC). Les Annales de l'Institut technique de batiment et des travaux publics (Les annales de l'I.T.B.T.P.) No 532 Serie Beton 320, pp. 133-141.

-Roux, N., Barranco, M., 1995. Mise en eouvre des betons de poudres reactives (BPR) dans le BTP. Les Annales de l'I.T.B.T.P., No. 532, Serie Beton 320 (March-April), pp. 128-132

-Roux, N., Andrade, C., Sanjuan, M.A., 1996. Caracterisation de la durabilite des BPR fibres et non fibres. In : Proceedings of 2eme Colloque International Francophone sur les betons Renforces de Fibres Matalliques, 1996, Toulouse, pp. 241-252.

Roux, N., Andrade, C., Sanjuan, M.A., 1996. Experimental study of durability of reactive powder concretes. Journal of Materials in Civil Engineering 8(1), pp. 1-6.

+Roy, D.M., Gouda, G.R., Bobrowsky, A., 1972. Very high strength cement pastes prepared by hot pressing and other high pressure techniques. Cement and Concrete Research 2(3), pp. 349-366.

+Roy, D.M., Gouda, G.R., 1973. High strength generation in cement pastes. Cement and Concrete Research 3(6), pp. 807-820.

-Roy, D.M., Gouda, G.R., 1974. Hot-pressed cement in radioactive waste management. Report to Nuclear Waste Technology Program, August 19, 1974, B.P.N.L., Richland, Washington.

+Roy, D.M., Gouda, G.R., 1975. Optimization of strength in cement pastes. Cement and Concrete Research 5(2), pp. 153-162.

Roy, D.M., Nakagawa, Z.-E., Scheetz, B.E., White, E.L., 1985. Optimized high strength mortars: Effects of chemistry, particle packing, and interface bonding. In: Proceedings of the Very High Strength Cement-Based Materials Symposium, 27-28 November 1984, Boston, Massachusetts, USA, Ed. J.F. Young (Pittsburgh, PA: Materials Research Society, 1985) 42, pp. 245-252.

Roy, D.M., Idorn, G.M., 1985. Relation between strength, pore structure and associated properties of slag-containing cementitious materials. In: Proceedings of the Very High Strength Cement-Based Materials Symposium, 27-28 November 1984, Boston, Massachusetts, USA, Ed. J.F. Young (Pittsburgh, PA: Materials Research Society, 1985) 42, pp. 133-142.

+Roy, D.M., 1987. New strong cement materials: Chemically bonded ceramics. Science 235(2), pp. 651-658.

+Roy, D.M., 1992. Advanced cement systems, including CBC, DSP, MDF. In: Proceedings of the Ninth International Congress on the Chemistry of the Cement, 1992, New Delhi, India 1, pp. 357-380.

+Roy, D.M., Silsbee, M.R., 1994. Novel cements and cement products for applications in the twenty-first century. In: Proceedings of the V. Mohan Malhotra Symposium on Concrete Technology: Past, Present, and Future, Ed. P.K. Mehta (Detroit, MI, USA: American Concrete Institute, 1994) ACI SP-144-18, pp. 349-382.

Roy, N., Proulx, J., Paultre., 2000. Dynamic testing of the Sherbrooke Pedestrian bridge. In: Proceedings of the 2000 Annual Conference Abstracts - Canadian Society for Civil Engineering, 7-10 June 2000, London, Ontario, Canada, pg. 211.

+Russel, P.P., Shunkwiler, J., Berg, M., Young, J.F., 1991. Moisture resistance of macro-defect-free cement. Advances in Cementitious Materials – Ceramic Transactions 16, pp. 501-519.

+Ryu, G.-S., Kang, S.-T., Park, J.-J., Koh, G.-T., 2010. Evaluation of flexural performance in UHPC (Ultra high performance concrete) according to placement methods. Key Engineering Materials 417-418, pp. 581-584.

-Ryu, G.-S., Kang, S.-T., Park, J.-J., Koh, K.-T., Kim, S.-W., 2011. Evaluation of fundamental UHPC properties according to the shape of steel fiber. In: Proceedings of the Ninth International Conference on Fracture and Damage Mechanics, FDM 2010, 20-22 September 2009, Nagasaki, Japan, Key Engineering Materials – Advances in Fracture and Damage Mechanics IX, FDM 2010 452-453, pp. 717-720.

— S —

Sadrekarimi, A., 2004. Development of a lightweight reactive powder concrete. Journal of Advanced Concrete Technology 2(3), pp. 409-417.

+Sakai, E., Aizawa, K., Nakamura, A., Kato, H., Daimon, M., 2008. Influence of superplasticizers on the fluidity of cements with different amount of aluminate phase. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 85-92. (in book pdf)

+Saleem, M.A., Mirmiran, A., Xia, J., Mackie, K., 2010 Ultra-high performance concrete light-weight deck for moveable bridges. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 361, 8 pgs.

-Salen, A.S.M., 2005. Properties of ultra-high performance concrete. MS Thesis. American University in Cairo.

+SAMARIS DE03, 2003. SAMARIS – Sustainable and Advanced Materials for Road InfraStructures Brochure, 8 pgs. http://samaris.zag.si/

+SAMARIS DE13, 2004. Report on preliminary studies for the use of HPFRCC for the rehabilitation of road infrastructure components – WP 14: HPFRCC (High Performance Fibre Reinforced Cementitious Composite) for rehabilitation) SAM_GE_DE13v02_01 2, drafted by E. Denarié, 67 pgs. http://samaris.zag.si/

+SAMARIS DE18a, 2005. Report on tests of UHPFRC in the laboratory, Part A – WP 14: HPFRCC SAM_GE_DE18v02_01 2, drafted/reviewed by K. Habel, E. Denarié, A. Znidaric, R. Woodward, M. Richardson, and P. Rossi, 230 pgs. http://samaris.zag.si/

+SAMARIS DE18b, 2006. Report on tests of UHPFRC in the laboratory, Part B – WP 14: HPFRCC SAM_GE_DE18bv01_01 Final, drafted/reviewed by J.P. Charron, A. Herwig, J. Wuest, J. Birdsall, E. Denarié, and A. Znidaric, 144 pgs. http://samaris.zag.si/

+SAMARIS DE22, 2005. Full scale application of UHPFRC for the rehabilitation of bridges – from the lab to the field – WP 14: HPFRCC SAM_GE_DE22v03_01 Final, drafted/reviewed/verified/validated by E. Denarié, E. Brühwiler, A. Znidaric, Y. Houst, and R. Rohleder, 77 pgs. http://samaris.zag.si/

+SAMARIS DE25b, 2006. Guidance for the use of UHPFRC for rehabilitation of concrete highway structures – WP 14: HPFRCC SAM_GE_DE25v04_01 4, drafted/reviewed/verified/validated by E. Denarié, E. Brühwiler, P. Lestuzzi, and G. Tilly, 64 pgs. http://samaris.zag.si/

+SAMARIS DE26, 2006. Modelling of UHPFRC in composite structures – WP 14: HPFRCC SAM_GE_DE26 Final, drafted/reviewed by H. Sadouki, E. Denarié, and A. Žnidarič, 70 pgs. http://samaris.zag.si/

+SAMARIS DE39v01 D33, 2006. Compilation of the presentations of SAMARIS final seminar related to the pavement stream, 257 pgs. http://samaris.zag.si/

Premium pavements from alternative materials for European roads

- Piau, J.-M., 2006. - Keynotes.
- Sinis, F., 2006. What is the situation?

- Krass, K., 2006. The need for environmental assessment to promote sustainability – Introduction to WP 4 – Task 4.3.
- François, D., 2006. General assessment methodology for best usage of alternative materials.
- Pihl, K.A., 2006. Comments to the assessment method – The engineering part.
- van der Sloot, H.A., Hjelmar, O., 2006. Methodology for environmental impact assessment.
- Boetcher, S., 2006. Task 4.3: Prototype environmental annex to product standard.

Health, safety, environment assessment

- Mouillet, V., Nicholls, C., Samuel, P., Deygout, F., Koenders, B., 2006. – Procedures for identifying hazardous component materials for asphalt.
- Colwell, S., 2006. Reaction to fire performance of pavement materials.
- Nielsen, E., 2006. Part 2: Mechanical assessment – towards functional specification irrespective of type of materials (Modelling).
- Hornych, P., 2006. WP 5.2 – Prediction of rutting of unbound granular materials.
- Blab, R., 2006. Mechanical assessment of recycled materials irrespective to the type of materials: Asphalt materials.
- Nicholls, C., 2006. Implications of asphalt deformation results for standardization.
- Sinis, F., 2006. Digests of recycling techniques – General presentation of the technical guide.
- Soliman, S., Drouadaine, I., 2006. WP6: Techniques for recycling.
- Anon, 2006. Conclusions.

+SAMARIS DE40v01 D33, 2006. Compilation of the presentations of SAMARIS final seminar, 236 pgs. http://samaris.zag.si/

- McKenzie, M., 2006. Guidelines on the selection of innovative techniques for the rehabilitation of concrete highway structures.
- Žnidaric, A., 2006. Optimised assessment of bridges.
- Denarié, E., 2006. Ultra high performance fibre reinforced concretes (UHPFRC) for rehabilitation – 1. Motivation and background. (Denarie)
- Richardson, M., 2006. Guidance on use of surface-applied corrosion inhibitors – Context and framework of guidance.
- Žnidaric, A., 2006. Optimised assessment of bridges – Case study 1 – Medno bridge – Soft load testing.
- O'Connor, A., 2006. Optimised assessment of bridges – Case study 2 – Danish examples.
- Putallaz, J.-C., Denarié, E., 2006. Ultra high performance fibre reinforced composites (UHPFRC) for rehabilitation. (Denarie)
- 2. Case study – first application.
- Richardson, M., 2006. Guidance on use of surface-applied corrosion inhibitors.
- Brühwiler, E., 2006. Advances in rehabilitation of highway structures. (Bruhwiler)

+SAMARIS – NR2C – OCDE IM3, 2005. Joint Seminar on Use of High Performance Hydraulic Materials in Structures and Pavement Construction, 28 January 2005, (Three international research programs: SAMARIS – Sustainable Advanced Materials for Road Infrastructures; NR2C – New road conception and construction; and Organization for Economic Co-operation and Development – IM3 - LLSC – Long Life Surface Course)

- Anon, 2005. Introduction and General view of new materials.
- Rossi, P., 2005. A new multi-scale cement composite for civil engineering and building construction fields.
- WP14 – High performance fiber reinforced cementitious composites for rehabilitation
- Denarié, E., 2005. Part A – General overview and laboratory tests. (Denarie)
- Denarié, E., 2005. Part B – First pilot test of application of UHPFRC for rehabilitation of a bridge. (Denarie)
- de Larrard, F., 2005. Seminar on EU projects dealing with high-performance cementitious materials – The HPC carpet: A new type of concrete course layer.

Sameer, S., 2004. Behavioral study of ultra high performance concrete girders. MS Thesis - Department of Civil and Environmental Engineering, University of Maryland, College Park, 97 pgs.

Sameer, S., Chung, C.F., Graybeal, B., 2005. Behavioral study of ultra high performance concrete girders. In: Proceedings of the International Conference on Construction Materials: Performance, Innovations, and Structural Implications, 2005, Vancouver, B.C., Ed. N. Banthia. (Vancouver, B.C.: the University of British Columbia, 2005), 11 pgs.

Santos, R.S., Rodrigues, F.A., Segre, N., Joekes, I., 1999. Macro-defect free cements – Influence of poly(vinyl alcohol), cement type, and silica fume. Cement and Concrete Research 29, pp. 747-751.

Sauzeat, E., Feylessoufi, A., Villiéras, F., Yvon, J., Cases, J.M., Richard, P., 1996. Textural analysis of reactive powder concretes. In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-performance concrete, 29-31 May 1996, Paris, France, pp. 1359-1365.

-Sayed, S., Fu., C.C., Graybeal, B., 2005. Behavior study of ultra high performance concrete bridges. Progress report to the FHWA.

-Sayed Ahmad, F., Foret, G., Le Roy, R., 2011. Bond between carbon fibre-reinforced polymer (CFRP) bars and ultra high performance fibre reinforced concrete (UHPFRC): Experimental study. Construction and Building Materials 25(2), pp. 479-485.

Schachinger, I., Schmidt, K., Heinz, D., Schießl, P., 2002. Early-age cracking risk and relaxation by restrained autogenous deformation of ultra high performance concrete. In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June 2002, Leipzig, Eds. G. Konig, F. Dehn, T. Faust (Germany: Verein der Freunde des Bauingenieur- und Wirtschaftsingenie der Universität Leipzig, 2002) 2, pp. 1341-1354. (SchieBl)

-Schachinger, I., Schmidt, K., Heinz, D., 2003. Zeitabhangiges Verformungsverhalten von UHFB. In: Ultrahochfeter Beton, Innovationen im Bauwesen – Beitrage aus Praxis und Wissenschaft, G. Konig, K. Holschemacher, F. Dehn (Eds.). (Leipzig, Germany: Bauwerk, 2003), pp. 67-77. (in German)

-Schachinger, I., Stengel, T., Heinz, D., 2003. Einsatz von Fasern zur Verbesserung des Nachbruch verhaltens von ultrahochfestem Beton im Biegezugversuch. In: Ibausil, International Baustofftagung, 24-27. September 2003, Weimar, S. 2-0313 – 2-0322.

Schachinger, I., Schubert, J., Mazanec, O., 2004. Effect of mixing and placement methods on fresh and hardened ultra-high performance concrete (UHPC). In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 575-586.

+Schachinger, I., Hilbig, H., Stengel, T., 2008. Effect of curing temperature at an early age on the long-term strength development of UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 205-212. (in book pdf)

+Schäfers, M., Seim, W., 2008. Development of adhesive-bound UHPC-timber composites. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 259-266. (in book pdf) (Schafers)

-Schaller, I., 1999. Resistance a l'effort tranchant de poutrelles en M50C, M100C et BPR. Etude experimentale, Projet National BHP 2000, theme BTHP (aout).

+Schaumann, E., Vallée, T., Keller, T., 2008. Direct load transmission in hybrid FRP and lightweight concrete sandwich bridge deck. Composites: Part A - Applied Science and Manufacturing 39, pp. 478-487.

Schenck, G., Küchler, M., 2004. Application of UHPC filled tubes in buildings and bridges. LACER (LEIPZIG Annual Civil Engineering Report) 9, 13 pgs. (Kuchler)

-Scheydt, J.C., 2004. Dauerhaftigkeitskenngrossen von ultrahochfestem Beton. Diploma thesis, Institute of Concrete Structures and Building Materials, University of Karlsruhe (TH).

-Scheydt, J.C., Herold, G., Muller, H.S., 2006. Dauerhaftigkeit ultrahochfester Grob- und Feinkornbetone. In: Proceedings of the Sixteenth International Baustofftagung ibausil, September 2006, Weimar 2, pp. 51-60.

+Scheydt, J.C., Herold, G., Müller, H.S., 2008. Long term behaviour of ultra high performance concrete under the attack of chlorides and aggressive waters. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 231-238. (in book pdf) (Muller)

+Scheydt, J.C., Herold, G., Müller, H.S., Kuhnt, M., 2008. Development and application of UHPC convenience blends. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 69-76. (in book pdf) (Muller)

+Schießl, P., Mazanec, O., Lowke, D., 2007. SCC and UHPC – Effect of mixing technology on fresh concrete properties. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 513-522. (SchieBl)

+Schießl, P., Mazanec, O., Lowke, D., Plank, J., Schröfl, C., Gruber, M., Schmidt, M., Glotzbach, C., Stephan, D., 2010. Rheology of UHPC - Effect of superplasticizer and silica fume on mixing and workability of UHPC. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 61, 20 pgs. (SchieBl, Schrofl)

-Schiel, P., Mazanec, O., Lowke, D., Plank, J., Schröfl, C., Gruber, M., Schmidt, M., Stephan, D., Glotzbach, C., 2010. Investigations on the workability and microstructure development of UHPC; part 1: Effect of superplasticizer and silica fume on mixing and workability of UHPC. Cement International 8(4), pp. 60-71.

+Schmidt, C., Riedl, S., Geisenhanslüke, C., Schmidt, M., 2008. Strengthening and rehabilitation of pavements applying thin layers of reinforced ultra-high-performance concrete (UHPC-white topping). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 655-662. (in book pdf) (Geisenhansluke)

+Schmidt, M., Bornemann, R., 2000. Möglichkeit und Grenzen von Hoch- und Ultra-hochfestem Beton. Ibausil – 14. International Baustofftagung 2000 1, pp. 1-1083-1-1091. (in German)

Schmidt, M., Fehling, E., Teichmann, T., Bunje, K., 2002. Durability of ultra high performance concrete (UHPC). In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June 2002, Leipzig, Eds. G. Konig, F. Dehn, T. Faust (Germany: Verein der Freunde des Bauingenieur- und Wirtschaftsingenie der Universität Leipzig, 2002) 2, pp. 1367-1376.

+Schmidt, M., 2003. Ultra-Hochleistungsbeton – Ausgangsstoffe, Eigenschaften und Leistungsfähigkeit. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 5-20. (in book pdf) (in German)

Schmidt, M., Fehling, E., 2003. Ultra-Hochfester Beton - Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den, 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003. Schriftenreihe Baustoffe und Massivbau (Structural Materials and Engineering Series) 2 (Kassel, Germany: Kassel University Press, 2003), 124 pgs. (book pdf)

1. Schmidt, M., 2003. Ultra-Hochleistungsbeton – Ausgangsstoffe, Eigenschaften und Leistungsfähigkeit. pp. 5-20. (in German)
2. Fehling, E., Bunje, K., 2003. Ultra-Hochleistungsbeton – Grundlagen der Konstruktion und Bemessung. pp. 21-36. (in German)
3. Dehn, F., 2003. Herstellung, Verarbeitung und Qualitätssicherung von UHPC. pp. 37-47. (in German)

4. Racky, P., 2003. Wirtschaftlichkeit und Nachhaltigkeit von UHPC. pp. 49-57. (in German)
5. Durukal, A., Batoz, J.-F., 2003. Ultra high performance fibre reinforced concrete footbridges. pp. 59-67.
6. Pelke, E., 2003. Neue Bauweisen im Ingenieurbau aus der Sicht der Hess. Straßen- und Verkehrsverwatung. pp. 69-78. (in German)
7. Lehmkuhl, H., 2003. Erneuerung der Gärtnerplatzbrücke mit UHPC – Randbedingungen und Aufgaben des Baulastträgers. pp. 79-87. (in German)
8. Schreiber, W., 2003. Design, Konstrucktion und Bemessung der Gärtnerplatzbrücke. pp. 89-94. (in German)
9. Tue, N., Schneider, H., 2003. Besonderheiten bei der Bemessung und der konstrucktiven Ausbildung von Bauteilen aus UHPC im Rahmen der Zulassung im Einzelfall. pp. 95-116. (in German)
10. Walraven, J., 2003. Ultra-Hochleistungsbeton: Zukunftsvision oder Irrtum ? pp. 117- 118. (in German)

-Schmidt, M., Fehling, E., Teichmann, T., Bunje, K., Bornemann, T., 2003. Ultra-Hochfester Beton: Perpektiven fur die Betonfertigteilindustrie. BFT Betonwerk- und Fertigteil-Technik 3, pp. 16-29.

Schmidt, M., 2004. Ultrahochfester beton - Hightech werkstoff der zukunft (Ultra-high performance concrete - High-tech material of the future. Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 70(2), pp. 90-91. (in German and English)

Schmidt, M., Fehling, E., Geisenhanslüke, C., 2004. Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany. Schriftenreihe Baustoffe und Massivbau (Structural Materials and Engineering Series) 3(3) (Kassel, Germany: Kassel University Press, 2004), 884 pgs. (Geisenhansluke)

Schmidt, M., 2005. Beton auf dem Wege zum High-Tech-Werstoff-Leistungsfähiger als Stahl? (Concrete on the way to becoming a high-tech material- more efficient than steel?) Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 71(2), pp. 14-16. (in German and English)

-Schmidt, M., 2005. Gutachterliche Stellungnahme zur Zustimmung im Einzelfall fur eine Fertigteilbrucke aus Ultra-Hochfestem Beton in Niestetal. Kassel.

Schmidt, M., Fehling, E., 2005. Ultra-high-performance concrete: Research, development and application in Europe. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, 20-24 June 2005, Ed. H.G. Russell, (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-4 I, pp. 51-77. (Proceeding version and web version pdf's)

+Schmidt, M., Geisenhanslüke, C., 2005. Optimierund der Zusammensetzung des Feinstkorns von Ultra-Hochleistungs- und selbstverdichtendem Beton. Beton 5, pp. 224-235. (in German) (Geisenhansluke)

-Schmidt, M., Teichmann, T., 2005. Versuche zur Klebbarkeit von Bauteilen aus UHPC fur die Gartnerplatzbrucke in Kassel im Rahmen der Zustimmung im Einzelfall, Prufbericht Fachgebiet Werkstoffe des Bauwesens. Universitat Kassel.

Schmidt, M., Bunje, K., Fehling, E., 2006. Marktpotenzial Brückenbau: Der Weg zum Hochleistungsfertigteil – Kasseler Brückenfamilie mit UHFB Erfahrungen und Perspektiven (Market potential bridge building: The way to a high performance precast element – Kassel bridge family with UHPC – Experiences and perspectives). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology (BFT International) 72(2), pp. 58-60. (in German and English)

+Schmidt, M., Bunje, K., Fehling, E., Teichmann, T., 2006. Brückenfamilie aus Ultra-hochfestem Beton in Niestetal und Kassel. Beton- und Stahlbetonbau 101(3) pp. 198-204. (in German)

-Schmidt, M., Teichmann, T., 2006. New developments in ultra-high performance concrete – non-corrosive PVA-fibres and gluing of structural elements. In: Proceeding of the Second fib Congress, June 2006, Naples.

+Schmidt, M., 2007. Einsatz von UHPC beim Bau der Gartnerplatzbrücke in Kassel. Beton 57(6), pp. 252-255. (in German)

+Schmidt, M., Fehling, E., 2007. Ultra High Performance Concrete (UHPC) – 10 Years of Research and Development at the University of Kassel (10 Jahre Forschung und Entwicklung an der Universität Kassel). Schriftenreihe Baustoffe und Massivbau (Structural Materials and Engineering Series) 7(7) (Kassel, Germany: Kassel University Press, 2007), 475 pgs.

1. Anon, 2007. Die Gärtnerplatzbrücke in Kassel – Praktisches Ergebnis von 10 Jahren Forschung und Entwicklung auf dem Gebiet des Ultra-Hochfesten Betons an der Universität Kassel. pp. 9-20. (in German)
2. Schmidt, M., Herget, E., 2007. Bauen mit UHPC – Aktueller Stand und Ausblick aus der Sicht der Wissenschaft und der Praxis. (51. Betontage, Neu-Ulm, 2007), pp. 21-24. (in German)
3. Fehling, E., Leutbecher, T., 2007. Ultrahochfester Beton – Bemessung und Konstruktion. (Fachtagung des DAfStb, 2007), pp. 25-40. (in German)
4. Teichmann, T., Krelaus, R., 2007. Konstruktives Kleben von ultrahochfestem Beton – Laboruntersuchungen und praktische Anwendungen. (51. Betontage, Nue-Ulm, 2007), pp. 41-43. (in German)
5. Schmidt, M., Brühwiler, E., Fehling, E., Denarié, E., Leutbecher, T., Teichmann, T., 2007. Mix design and properties of ultra-high performance fibre reinforced concrete for the construction of a composite UHPFRC – concrete bridge. (IABSE Weimar, 2007), pp. 44-54. (in English) (Bruhwiler, Denarie)
6. Fehling, E., Leutbecher, T., 2007. Tensile behavior of ultra high performance concrete (UHPC) reinforced with a combination of steel-fibers and rebars. (Third SEMC, Cape Town, 2007), pp. 55-69. (in English)
7. Schmidt, M., Fehling, E., 2007. Grundlagen der Betontechnologie von Hoch- und Ultra-Hochleistungsbeton und Anwendung von UHPC im Bruckenbau. (VSVI Hessen, Vortragsveranstaltung Straßenbautechnik, Friedberg 2006), pp. 70-81. (in German)
8. Schmidt, M., Bunje, K., Fehling, E., Teichmann, T., 2007. Brückenfamilie aus Ultra-Hochfestem Beton in Niestetal und Kassel. (Beton- und Stahlbetonbau 101 (2006), Heft 3), pp. 82-97. (in German)
9. Schmidt, M., 2007. Von der Nanotechnologie zum Ultra-Hochfesten Beton. (ibausil, Weimar, 2006), pp. 98-110. (in German)

10. Schmidt, M., Teichmann, T., 2007. New developments in ultra high performance concrete – non corrosive PVA-fibres and glueing of structural elements. (Second fib congress, Neapel, 2006), pp. 111-125. (in English)
11. Schmidt, M., 2007. Beton auf dem Wege zum High-Tech-Werkstoff – Leistungsfähiger als Stahl? (49. Betontage, Neu-Ulm, 2005), pp. 126-129. (in German)
12. Geisenhanslüke, C., 2007. Modellierung und Bereshnung hochdichter Feinstkornpackungen für Beton. (45. Forschungskolloquium DAfStb, Wien, 2005), pp. 130-140. (in German) (Geisenhansluke)
13. Schmidt, M., Geisenhanslüke, C., 2007. Optimierung der Zusammensetzung des Feinstkorns von Ultra-Hochleistungs- und von Selbstverdichtendem Beton. (beton 36 (2005), Heft 5), pp. 141-164. (in German) (Geisenhansluke)
14. Geisenhanslüke, C., Schmidt, M., Teichmann, T., 2007. Optimierung der Packungsdichte des Feinstkorns für Ultra-Hochleistungs -und Selbstverdichtende Betone. (hier erstmalig publiziert (2005)), pp. 165-181. (in German) (Geisenhansluke)
15. Fehling, E., Leutbecher, T., 2007. Ultra high performance concrete (UHPC) – a challenge for structural design. (fib Symposium: Keep Concrete Attractive, Budapest, 2005), pp. 184-191. (in English)
16. Schmidt, M., Fehling, E., 2007. Ultra-high-performance concrete: Research, development and application in Europe. (Seventh International Symposium on High-Strength- and High-Performance-Concrete, ACI Washington, 2005), pp. 192-219. (in English)
17. Fehling, E., Leutbecher, T., 2007. UHPC – Eine Herausforderung. (Massivbau in ganzer Breite, Festschrift, Heidelberg, 2005), pp. 220-226. (in German)
18. Teichmann, T., Schmidt, M., 2007. Influence of the packing density of fine particles on structure, strength and durability. (International Symposium on Ultra High Performance Concrete, Kassel, 2004), pp. 227-237. (in English)
19. Geisenhanslüke, C., Schmidt, M., 2007. Methods for modelling and calculation of high density packing for cement and fillers in UHPC. (International Symposium on Ultra High Performance Concrete, Kassel, 2004), pp. 238-247. (in English) (Geisenhansluke)
20. Schmidt, M., Middendorf, B., 2007. From nanotechnology to ultra high performance concrete. (Congress in Prague, 2004), pp. 248-258. (in English)
21. Zimmermann, G., Teichmann, T., 2007. Membrane concrete grid shells/UHPC grid shells. (International Symposium on Ultra High Performance Concrete, Kassel, 2004), pp. 259-273. (in English)
22. Fehling, E., Bunje, K., Leutbecher, T., 2007. Design relevant properties of hardened ultra high performance concrete. (International Symposium on Ultra High Performance Concrete, Kassel, 2004), pp. 274-286. (in English)
23. Fehling, E., Leutbecher, T., 2007. Ultrahochfester Beton – Bemessungsgrundlagen und Anwendungsmöglichkeiten. (Braunschweiger Bauseminar 2004, Qualität im Bauwesen, Heft 181), pp. 287-299. (in German)
24. Leutbecher, T., Fehling, E., 2007. Structural behaviour of UHPC under tensile stress and biaxial loading. (International Symposium on Ultra High Performance Concrete, Kassel, 2004), pp. 300-314. (in English)
25. Fehling, E., Bunje, K., Leutbecher, T., 2007. Bemessung für Biegung und Querkraft bei Bauteilen aus UHFB. (Beiträge aus Praxis und Wissenschaft, Bauwerk-Verlag, 2003), pp. 315-330. (in German)
26. Fehling, E., Teichmann, T., Bunje, K., Bornemann, R., Geisenhanslüke, C., 2007. Ultra-Hochleistungsbeton: Neue Dimension im Betonbau. (VDI-Jahrbuch-Bautechnik 15. Jahrgang (2003)), pp. 331-352. (in German) (Geisenhansluke)

27. Schmidt, M., Fehling, E., Bornemann, R., Bunje, K., Teichmann, T., 2007. Ultra-Hochfester Beton: Perspektive für die Betonfertigteilindustrie. (Betonwerk und Fertigteil-Technick BFT (2003), Heft 3,/Beton-Fertigteil-Jahrbuch 2003), pp. 353-374. (in German)
28. Bornemann, R., Teichmann, T., Schmidt, M., 2007. Einfluss der Zusammensetzung auf die Verarbeitbarkeit, die Festigkeit und die Dauerhaftigkeit von UHFB. (Ultrahochfester Beton, Bauwerk Verlag Berlin, 2003), pp. 375-386. (in German)
29. Bornemann, R., Schmidt, M., Vellmer, C., 2007. Brandverhalten ultra-hochfester Betone. (beton 52 (2002), Heft 9), pp. 387-398. (in German)
30. Schmidt, M., Fehling, E., Teichmann, T., Bunje, K., 2007. Durability of ultra high performance concrete (UHPC). (Sixth International Symposium on High Strength/High Performance Concrete, Leipzig, 2002), pp. 399-408. (in English)
31. Bornemann, R., Schmidt, M., 2007. The role of powders in concrete. (Sixth International Symposium on High Strength/High Performance Concrete, Leipzig, 2002), pp. 409-416. (in English)
32. Teichmann, T., Schmidt, M., 2007. Mix design and durability of ultra high performance concrete (UHPC). (Fourth International Ph.D. Symposium in Civil Engineering, Munich, 2002), pp. 417-422. (in English)
33. Bornemann, R., Middendorf, B., Schmidt, M., 2007. Microstructure and durability of ultra high performance concrete (UHPC). (Eighth Euroseminar on Microscopy Applied to Building Materials, Athens, 2001), pp. 423-431. (in English)
34. Bornemann, R., Schmidt, M., Fehling, E., Middendorf, B., 2007. Ultra-Hochleistungsbeton UHPC – Herstellung, Eigenschaften und Anwendungsmöglishkeiten. (Beton- und Stahlbetonbau 96 (2001), Heft 7), pp. 432-451. (in German)
35. Schmidt, M., 2007. Beton – Ein High-Tech-Baustoff. Stand und zukünftige Entwicklungen im Betonbau. (Kasseler Wasserbau-Mitteilungen (2001), Heft 12), pp.452-464. (in German)
36. Schmidt, M., Bornemann, R., 2007. Möglichkeit und Grenzen von Hoch- und Ultra-Hochfestem Beton. (ibausil, Weimar, 2000), pp. 465-473. (in German)

+Schmidt, M., Herget, E., 2007. Building with ultra-high-strength concrete – Current state and outlook from the standpoint of science and practice (Bauen mit ultrahochfestem Beton – Aktueller Stand und Ausblick aus der Sicht der Wissenshaft und der Praxis). BFT 73(2), pp. 82-84. (in English and German)

+Schmidt, M., Krelaus, R., Teichmann, T., Fehling, E., Herget, E., 2007. Gluing UHPC structural members for the Gartnerplatz Bridge in Kassel (Kleben von UHPC-Bauteilen bei der Gärtnerplatzbrücke in Kassel). BFT 73(10), pp. 12-20. (in English and German)

+Schmidt, M., Krelaus, R.,Teichmann, T., Leutbecher, T., Fehling, E., 2007. Fügen von Bauteilen aus UHPC durch Kleben – Voruntersuchungen und Anwendung bei der Gärtnerplatzbrücke in Kassel. Beton- und Stahlbetonbau 102(10), pp 681-690. (in German)

-Schmidt, M., Teichmann, T., 2007. Development of an ultra high performance concrete for the company SW Umwelttechnik, Final report, Kassel.

+Schmidt, M., Teichmann, T., 2007. Ultra-high-performance concrete: Basis for sustainable structures. In: Proceedings of the Central Europe towards Sustainable Building, Prague, CESB07, pp. 83-88.

+Schmidt, M., Jerebic, D., 2008. UHPC: Basis for sustainable structures – the Gaertnerplatz Bridge in Kassel. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 619-625. (in book pdf)

+Schmidt, M., 2009. Ultra-high performance concrete in Germany and the world - Current state of research, technical rules and standards and practical application (Ultrahochfester Beton in Deutschland und der Welt - Stand der Forschung, technische Regelwerke und praktische Anwendung). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(2), pp. 14-16. (in English and German)

+Schmidt, M., 2010. Sustainable building with ultra-high performance concrete (UHPC) - Coordinated research program in Germany. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 682, 12 pgs.

+Schmidt, M., Fröhlich, S., 2010. Testing of UHPC. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 237, 11 pgs. (Frohlich)

+Schmiedmayer, R., Schachinger, I., 1998. Influence of superplasticizer dosage and mixing procedure on the density and strength of reactive powder concrete. In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 145-152.

+Schneider, B., 1986. Structural applications of SIFCON. In: Proceedings of Two Sessions in Conjunction with the ASCE Convention – Application and Performance of Structural Materials and Exterior Facades, 27 October 1986, Boston, MA, USA, Ed. J.W. Richardson. (New York: ASCE – Materials Engineering Division, 1986), pp. 1-15.

+Schneider, B., 1988. SIFCON: A new building material. Construction Specifier 41(12), pp. 86-89.

+Schneider, B., 1992. Development of SIFCON through applications. In: Proceedings of the RILEM High Performance Fiber Reinforced Cement Composites (HPFRCC), 1992, Stuttgart, Germany, pp. 177-194.

+Schneider, H., Dehn, F., Wagner, J.-P., Schmidt, D., 2002. High-performance compression members made of confined UHSC. Leipzig Annual Civil Engineering Report, LACER 7, pp. 181-189.

-Schneider, H., Tue, N.V., 2007. Kurze, umschnurte Druckglieder aus ultrahochtestem Beton. University of Leipzig. (book)

+Schneider, U., Horvath, J., Dehn, F., 2001. Abplatzverhalten von ultrahochfestem Beton (UHPC) unter Brandbeanspruchung (Spalling behaviour of UHPC under fire loading). Leipziger Annual Civil Engineering Report, LACER 6, pp. 281-289. (in German)

+Schneider, U., Horvath, J., König, G., Dehn, F., 2001. Materialverhalten von ultrahochfesten Betonen (UHPC). Beton- und Stahlbetonbau 96(7), pp. 468-477. (in German) (Konig)

-Schneider, U., Horvath, J., Dehn, F., 2002. Faserbewehrte ultrahochfeste Betone. Faserbeton – Innovationen im Bauwesen, Eds. G. Konig, K. Holschemacher, F. Dehn. (Berlin: Bauwerk-Berlag, 2003).

Schneider, U., Diederichs, U., Horvath, J., 2003. Verhalten von Ultrahochfesten Betonen (UHPC) unter Brandbeanspruchung (Behavior of ultra high performance concrete (UHPC) under fire exposure). Beton- und Stahlbetonbau 98(7), pp. 408-417. (in German)

-Schneider, U., Horvath, J., 2003. Herstellung und Eigenschaften von Ultra-Hochleistungsbetonen. Institut fur Baustofflehre, Bauphysik und Brandschutz – TU Wien. (Wien: Eigenverlag, 2003).

-Schneider, U., Horvath, J., 2003. Temperaturverhalten von UHFB. In: Innovationen im Bauwesem: Ultrahochfester Beton, G. Konig, K. Hoschemacher, F. Dehn, (Eds.). (Berlin: Bauwerk Verlag, 2003), pp. 107-120.

+Schnell, J., Ackermann, F.P., Rösch, R., Sych, T., 2008. Statistical analysis of the fibre distribution in ultra high performance concrete using computer tomography. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 145-152. (in book pdf) (Rosch)

+Schnellenbach-Held, M., Prager, M., 2010. UHPC with micro-reinforcement. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 433, 13 pgs.

+Schrefler, B.A., Khoury, G.A., Gawin, D., Majorana, C.E., 2002. Thermo-hydro-mechanical modelling of high performance concrete at high temperatures. Engineering Computations 19(7), pp. 787-819.

+Schrefler, B.A., Pesavento, F., Majorana, C.E., Gawin, D., 2002. Mathematical and numerical modelling of concrete as multiphase porous material in high temperature environment. In: Metodos Numericos en Ingenieria y Ciencias Aplicadas, Eds. E. Onate, F. Zarate, G. Ayala, S. Botello, M.A. Moreles (Barcelona: CIMNE, 2002), 10 pgs.

+Schreiber, W., 2003. Entwurf, Konstrucktion und Bemessung der Gartnerplatzbrucke. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 89-94. (in book pdf) (in German)

-Schreiber, W., XXXX. Konstruktion und ausfuhrung der ersten eropaischen verbundbrucke mit UHPC in Kassel, Beitrag zu den 48. Ulmer Beton-Fertigteil-Tage.

+Schröfl, C., Gruber, M., Plank, J., 2008. Structure performance relationship of polycarboxylate superplasticizers based on methacrylic acid esters in ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 383-390. (in book pdf) (Schrofl)

+Schubert, J., Schachinger, I., Fritschi, H., 2003. Ultrahochfester Beton – der Werkstoff für das neue Schöck Isokorb-Drucklager. FRILO-Magazin, pp. 21-24. (in German)

Schwartzentruber, A., Philippe, M., Marchese, G., Laurence, O., 2002. Cracking tendency of UHSC – Influence of fibers and expansive admixtures. In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June 2002, Leipzig, Germany, Eds. G. Konig, F. Dehn, T. Faust (Germany: Verein der Freunde des Bauingenieur- und Wirtschaftsingenie der Universität Leipzig, 2002) 2, pp. 1391-1405.

+Scrivener, K.L., Kirkpatrick, R.J., 2008. Innovation in use and research on cementitious material. Cement and Concrete Research 38, pp. 128-136.

+Scrivener, K.L., 2009. Nanotechnology and cementitious materials. In: Proceedings of Nanotechnology in Construction 3 (NICOM3), Eds. Z. Bittnar, P.J.M. Bartos, J. Nemecek, V. Smilauer, J. Zeman (Berlin: Springer-Verlag, 2009), pp. 37-42.

+Sedran, T., Durand, C., de Larrard, F., 2009. An example of UHPFRC recycling. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.2.2, 9 pgs.

+Seiler, A., Kastern, K., Seidel, M., 2004. Aufbereitung und betrieblicher Transport von UHPC (Conditioning and intra-company transportation of UHPC). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 70(4), pp. 14-20. (in German and English)

Semioli, W.J., 2001. The new concrete technology. Concrete International 23(11), pp. 75-79.

-Shah, S.P., 1996. Special HPCs I: Fiber-reinforced HPC, Ultra high strength concrete. In: Proceedings of the Fourth International Symposium on Utilization of High Strength/High Performance Concrete, 1996, Paris, pp. 74-81

+Shah, S.P., Weiss, W.J., 1998. Ultra high performance concrete; A look to the future. In: Presented at the Zia Symposium, ACI Spring Convention, 1998, Houston, Texas, 13 pgs.

-Shaheen, E., Shrive, N.G., 2003. Carbon fibre reinforced reactive powder concrete for a non metallic CFRP anchorage system. In: Proceeding of the International Conference on Performance of Construction Materials (ICPCM), Eds. Reda Taha, Lissel, El-Dieb, Cairo, Egypt, pp. 251-260.

-Shaheen, E., Shrive, N.G., 2003. Developments toward a non-metallic (UNPC) anchorage for onsite post-tensioning with CFRP tendons. In: Proceeding of the International Conference on Performance of Construction Materials (ICPCM), Eds. Reda Taha, Lissel, El-Dieb, Cairo, Egypt.

Shaheen, E., Shrive, N.G., 2006. Optimization of mechanical properties and durability of reactive powder concrete. ACI Materials Journal 103(6), pp. 444-451.

Shaheen, E., Shrive, N.G., 2006. Reactive powder concrete anchorage for post-tensioning with carbon fiber-reinforced polymer tendons. ACI Materials Journal 103(6), pp. 436-443.

+Shaheen, E., Shrive, N.G., 2007. Cyclic loading and fracture mechanics of Ductal® concrete. International Journal of Fracture 148, pp. 251-260.

-Shannag, M., 1995. Tensile behavior of fiber reinforced DSP cement. Ph.D., Thesis, Department of Civil and Environmental Engineering, University of Michigan, Ann Arbor, 213 pgs.

+Shannag, M.J., Brincker, R., Hansen, W., 1996. Interfacial (fiber-matrix) properties of high strength mortar (150 MPa) from fiber pullout. ACI Materials Journal 93(5), pp. 480-486.

Shannag, M.J., Brincker, R., Hansen, W., 1997. Pullout behavior of steel fibers from cement-based composites. Cement and Concrete Research 27(6), pp. 925-936.

Shannag, M.J., Hansen, W., 2000. Tensile properties of fibre-reinforced very high strength DSP mortar. Magazine of Concrete Research 52(2), pp. 101-108.

Sharma, A., Rambalack, R., 2005. Sorptivity characteristics of high-performance mortars. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-93 II, pp. 1467-1479.

-She, W., Zhang, Y.-S., Zhang, W.-H., Li, X., 2010. Preparation and performance of ultra-high strength concrete with good toughness. Jianzhu Cailiao Xuebao/Journal of Building Materials 13(3), pp. 310-314. (in Chinese)

Shi, C.-E., Zhou, R.-Z., Yao, Z.-X., 2005. Research on bending fatigue life reactive powder concrete. Fuzhou Daxue Xuebao (Ziran Kexue Ban) (Journal of Fuzhou University (Natural Science Edition)) 33(4), pp. 504-508. (in Chinese)

-Shi, H., Shi, T., Chen, B., Yao, Y., 2006. Research of chloride ion diffusivity in reactive powder concrete with blast-furnace slag. Tongji Daxue Xuebao/Journal of Tongji University Tongji Daxue Xuebao 34(1), pp. 93-96. (in Chinese)

-Shi, Q., Ji, W., An, M., 2010. Study of the strength of the reactive powder concrete due to local compression. In: Proceedings of the 2010 International Conference on Mechanic Automation and Control Engineering (MACE2010), 26-28 June 2010, Wuhan, China, pp. 1507-1510. (in Chinese)

Shi, S.-Q., Huang, X.-Y., Liu, Y.-F., Kang, J.-G., 2005. Application of polygonal short steel tube filled with concrete on the defense work. Concrete 2, pp. 95-98. (in Chinese) (?UHPC/RPC, but of interest)

Shi, T., Chen, B.-C., Shi, H.-S., 2005. Research on the proportion of reactive powder concrete with blast-furnace slag. Cailiao Kexue yu Gongcheng (Journal of Materials Science and Engineering) 23(6), pp. 867-870. (in Chinese)

Shi, Z.-Y., Tang, W.-H., Zhao, G.-M., Zhang, R.-Q., 2004. Experimental study of the crater performance about the long rod projectile penetrating steel fiber reinforced concrete target. Journal of National University of Defense Technology 26(5), pp. 26-29. (in Chinese) (?UHPC/RPC, but of interest)

Shi, Z.-Y., Tang, W.-H., Wu, K.-G., Zhang, R.-Q., 2006. Experimental study of the penetration into the steel fiber reinforced concrete targets within armor plates and ceramic plates. Journal of Experimental Mechanics 21(2), pp. 171-176. (in Chinese) (?UHPC/RPC, but of interest)

-Shim, J.M., Ulm, F.J., 2004. 3-D Design Simulation and Validation of UHPC Model: The Shawnessy Architectural Structure. MIT CEE Report R04-09, MIT, Cambridge, Massachusetts.

-Shim, J.M., Ulm, F.J., 2004. Prediction of early-age cracking of UHPC materials and structure: A thermo-chemo-mechanics approach. MIT-CEE Report R04-03 to Lafarge, MIT, Cambridge, Massachusetts.

Shim, J.M., 2005. Prediction of early-age cracking of UHPC materials and structures: A thermo-chemo-mechanics approach. M.S. Thesis - Massachusetts Institute of Technology, Department of Civil and Environmental Engineering, 172 pgs.

Shimoyama, Y., Uzawa, M., 2002. Properties and application fields of Ductal®. Taiheiyo Cement Kenkyu Hokoku (Journal of the Taiheiyo Cement Corporation, Japan) 142, pp. 55-62. (in Japanese)

+Shink, M., Vacher, J.-P., 2008. EFFIX Design® - Properties and applications of a creative concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 847-854. (in book pdf)

Shirai, K., Shimoyama, Y., Katagiri, M., Maehori, S., Hyodo, H., Ueda, N., 2003. Bending and shear properties of RC beams using reactive powder concrete. Taiheiyo Cement Kenkyu Hokoku (Journal of the Taiheiyo Cement Corporation - Japan) 145, pp. 36-44. (in Japanese)

-Shitai, K., Tanano, H., Fukuyama, H., Kage, T., 2003. Structural properties of beams using reactive powder concrete. In: Proceedings of the Japan Concrete Institute 25(2), pp. 841-846. (in Japanese)

-Shunkwiler, J.A., 1989. Influence of moisture on the structure and properties of macro-defect-free cement pastes. M.S. Thesis, University of Illinois, Urbana, IL.

Shutt, C.A., 2002. Ultra-high-performance concrete extends precast strength. Ascent 12(1), pp. 34-35.

Si-Larbi, A., Ferrier, E., Hamelin, P., 2004. Flexural behaviour of ultra high performance concrete reinforced with mixed short fibers and CFRP rebars. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 661-672.

-Siebel, E., Muller, C., 2003. Geeignete Zemente fur die Herstellung von UHFB. In: Ultrahochfester Beton. Innovationen im Bauwesen. Beitrage aus Praxis und Wissenschaft, Konig, G., Holschemacher, K., Dehn, F., (Eds.). (Berlin: Bauwerk Verlag, 2003), pp. 13-24. (in German)

+Simon, A., Hajar, D., Lecointre, D., Petitjean, J., 2002. Realization of two road bridges with ultra-high-performance fibre-reinforced concrete. In: Proceedings of the Sixth International Symposium on High Strength/High Performance Concrete, 2002, Leipzig, Germany, pp. 753-768.

+Simon, A., 2009. Les nouvelles recommandations AFGC sur les BFUP - Chapitre I - Comportement et caractéristiques mécaniques des BFUP (Updated AFGC recommendations : Chapter 1 - Materials). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.1.2, 13 pgs. (in French)

Singh, N.B., 2004. Highly reactive beta-Dicalcium silicate for ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 105-116.

+Sirijaroonchai, K., El-Tawil, S., Parra-Montesinos, G., 2010. Behavior of high performance fiber reinforced cement composites under multi-axial compressive loading. Cement and Concrete Composites 32(1), pp. 62-72.

Skazlic, M., Bjegovic, D., Piculin, S., 2003. The influence of hybrid steel fibres on mechanical properties of RPC. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 1 pg. (Skazlić, Bjegović)

Skazlic, M., Bjegovic, D., Tvrtkovic, D., 2003. Reactive powder concrete for better earthquake resistance. In: Proceedings on the Symposium on Concrete Structures in Seismic Regions (FIB 2003), 8 pages. (Skazlić, Bjegović)

Skazlić, M., Bjegović, D., Mrakovčić, S., 2004. Mikroarmirani betoni visokih uporabnih svojstava (High performance fiber reinforced concrete). Gradevinar 56(2), pp. 69-78. (in Serbian) (Skazlic, Bjegovic, Mrakovcic))

-Skazlic, M.B., Mikulic, D., 2005. Optimized composition of UHPC for tunnel lining. In: Proceedings of the Eighteenth BIBM International Congress - Meet the Future of Precast Concrete, 11-14 May 2005, Amsterdam, pp. 89-90.

-Skazlic, M., Jambresic, M., Dujmusic, M., 2007. Conversion factors for testing strength of ultra high strength concrete. In: Proceedings of fib Symposium “Concrete structures – Stimulators of Development,” Dubrovnik, Croatia.

+Skazlic, M., Serdar, M., Bjegovic, D., 2008. Influence of test specimens geometry on compressive strength of ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 295-301. (in book pdf) (Skazlić, Bjegović)

+Skazlić, M., Bjegović, D., 2009. Toughness testing of ultra high performance fibre reinforced concrete. Materials and Structures/Materiaux et Constructions 42(8), pp. 1025-1038. (Skazlic, Bjegovic)

+Sobolev, K., Soboleva, S., xxxx. Properties of ultra high strength cement. 13 pgs.

Soh, M., 2003. Model-based design of a ultra high performance concrete prototype highway bridge girder. MS Thesis – Massachusetts Institute of Technology, 64 pgs.

-Soliman, A.M., Nehdi, M.L., 2010. Effect of drying conditions on autogenous shrinkage in ultra-high performance concrete at early-age. Materials and Structures/Materiaux et Constructions, pp. 1-21.

-Soliman, A.M., Nehdi, M.L., 2010. Performance of shrinkage reducing admixture under drying/wetting cycles and submerged conditions. In: Proceedings of the Annual Conference - Canadian Society for Civil Engineering (CSCE 2010) 2, pp. 1047-1053.

Song, S.-M., Liu, J.-H., Mei, S.-G., 2002. The microstructure and performance of a cement matrix composite material. Journal of the Wuhan University of Technology, Materials Science Edition 17(2), pp. 74-77.

+Songlin, Y., Bo, D., 2009. Influence of curing regime on the ductility of ultra-high performance fiber reinforced concrete (UHPFRC). In: Proceedings of the Ninth International Conference of Chinese Transportation Professionals (ICCTP) 2009: Critical Issues in Transportation System Planning, Development, and Management, 5-9 August 2009, Harbin, China 358, pp. 2621-2627.

+Sorelli, L., Constantinides, G., Ulm, F.-J., Toutlemonde, F., 2008. The nano-mechanical properties of ultra high performance fibre reinforced concrete. In: Proceedings of the Seventh RILEM International Symposium on Fibre Reinforced Concrete (BEFIB 2008), Ed. R. Gettu, (RILEM Publications SARL), pp. 39-49.

+Sorelli, L., Davila, R., Ulm, F.-J., Perry, V., Seibert, P., 2008. Risk analysis of early-age cracking in UHPC structures. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 331-338. (in book pdf)

+Sorelli, L., Constantinides, G., Ulm, F.-J., Toutlemonde, F., 2008. The nano-mechanical signature of ultra high performance concrete by statistical nanoindentation techniques. Cement and Concrete Research 38(12), pp. 1447-1456.

-Sorensen, N.B., 1995. Fatigue damage in beams of CRC matrix. BriteEuRam Fellowship Report No. 5 (April).

+Soutsos, M.N., Millard, S.G., Karaiskos, K., 2005. Mix design, mechanical properties and impact resistance of reactive powder concrete (RPC). In: Proceedings of the International Workshop on High Performance Fiber Reinforced Cementitious Composites in Structural Applications, Hawaii, Eds. G. Fischer, B.C. Li, pp. 549-560.

Soutsos, M.N., web2007. Reactive glass powder concrete (RGPC) for paving flags – Phase I. The University of Liverpool, 40 pgs. (writeup and presentation) http://ren.globalwatchonline.com/epicentric_portal/binary/com.epicentric.contentmanagement.servlet.ContentDeliveryServlet/UKREN/REN%2520Team/Public%2520Documents/2007conference/2007conf-Marios-Soutsos.pdf

Soutsos, M.N., Millard, S.G., Karaiskos, K., web2007. Mix design, mechanical properties and impact resistance of: Reactive Powder Concrete (RPC). The University of Liverpool, 23 pgs. (presentation)

+Sparowitz, L., Reichel, M.M., 2009. Fiber-reinforced ultra-high-performance concrete in practice - Precast bridge in Völkermarkt - Concept and design (Faserbewehrter Ultrahochleistungsbeton in der Praxis - Fertigteilbrücke in Völkermarkt - Konzept und Bemessung). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(2), pp. 44-45. (in English and German)

+Spasojević, A., 2008. Structural implications of ultra-high performance fibre-reinforced concrete in bridge design. PhD Thesis. Ecole Polytechnique Federale de Lausanne, 4051, 285 pgs. (Spasojevic)

+Spasojevic, A., Redaelli, D., Ruiz, M.F., Muttoni, A., 2008. Influence of tensile properties of UHPFRC on size effect in bending. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 303-310. (in book pdf)

-Speck, K., Curbach, M., 2010. Ein einheitliches dreiaxiales Bruchkriterium für alle Betone (A unified multiaxial fracture criterion for all concretes). Beton- und Stahlbetonbau 105(4), pp. 233-243. (in German)

+Speck, K., Crubach, M., 2010. Fracture criterion for all concretes - Normal, lightweight, high- and ultra-high-performance concrete. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 209, 15 pgs.

Srievaastav, S.K., web2007. Fast track construction. In: Seminar on "Fast Pace Construction of Track and Bridges in Order to Meet with the Requirements of the Indian Railways in the Context of XIth Plan," 20 March 2007, Foundation Day. Indian Railways Institute of Civil Engineering, Pune, pp. 81-83. www.iricen.gov.in/papers/fday2007/paper.pdf

Sritharan, S., Bristow, B.J., Perry, V.H., 2003. Characterizing an ultra-high performance material for bridge applications under extreme loads. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 14 pgs.

+Sritharan, S., VandeVoort, T., Suleiman, M., 2009. Effective use of UHPC for deep foundation piles. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.2.6, 10 pgs.

+St. John, D.A., McLeod, L.C., Milestone, N.B., 1994. Durability of DSP mortars exposed to conditions of wetting and drying. In: International Workshop on High Performance Concrete, Bangkok, Thailand, SP 159-3, pp. 45-56.

-Staquet, S., 2000. Ultra-high performance concrete, from theory to practice. Civil Engineering Graduate Thesis, Department of Civil Engineering, University of Brussels, Brussels, Belgium. (in French)

+Staquet, S., Espion, B., 2000. Influence of cement and silica fume type on compressive strength of reactive powder concrete. In: Proceedings of the International Symposium on High Performance Concrete – Workability, Strength and Durability, 2000. (Hong Kong: The Hong Kong University of Science and Technology, 2000) 2, pp. 861-866.

Staquet, S., Espion, B., 2002. Influence of cement and silica fume type on compressive strength of reactive powder concrete. In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, June 2002, Leipzig, Germany, Eds. G. Konig, F. Dehn, T. Faust (Germany: Verein der Freunde des Bauingenieur- und Wirtschaftsingenie der Universität Leipzig, 2002) 2, pp. 1421-1436.

Staquet, S., Espion, B., 2004. Early-age autogenous shrinkage of UHPC incorporating very fine fly ash or metakaolin in replacement of silica fume. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 587-599.

+Staquet, S., Espion, B., 2004. Evolution of the thermal expansion coefficient of UHPC incorporating very fine fly ash and metakaolin. In: Proceedings of the International RILEM Symposium on Concrete Science and Engineering: A Tribute to Arnon Bentur, Eds. J. Weiss, K., Kovler, J. Marchand, S. Mindess, (RILEM Publications SARL), 12 pgs.

+Stark, U., Mueller, A., 2008. Optimization of packing density of aggregates. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 121-127. (in book pdf)

Steinberg, E., Lubbers, A., 2003. Bond of prestressing strands in UHPC. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 15 pgs.

Steinberg, E., web2007. Status of ultra high performance concrete (UHPC). Ohio University, 28 pgs. (presentation)

+Steinberg, E., 2010. Structural reliability of prestressed UHPC flexure models for bridge girders. Journal of Bridge Engineering 15(1), pp. 65-72.

+Stengel, T., 2008. Optimisation of steel fibre bonding in ultra high performance concrete. In: Proceedings of the Seventh RILEM International Symposium on Fibre Reinforced Concrete (BEFIB 2008), Ed. R. Gettu, (RILEM Publications SARL), pp. 63-73.

+Stengel, T., Schießl, P., 2008. Sustainable construction with UHPC – from life cycle inventory data collection to environmental impact assessment. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 461-468. (in book pdf) (SchieBl)

+Stengel, T., 2009. Effect of surface roughness on the steel fibre bonding in ultra high performance concrete (UHPC). In: Proceedings of Nanotechnology in Construction 3 (NICOM3), Eds. Z. Bittnar, P.J.M. Bartos, J. Nemecek, V. Smilauer, J. Zeman (Berlin: Springer-Verlag, 2009), pp. 371-376.

+Stengel, T., 2009. Sustainability aspects of traffic bridges made from UHPFRC - State-of-the-art and challenges for concrete technology. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 6.2.4, 13 pgs.

-Stengel, T., Lowke, D., Mazanec, O., Schiel, P., Gehlen, C., 2011. UHPC made with alternative additions - Rheology and fibre bonding (UHPC mit alternativen Zusatzstoffen - Rheologie und Faserverbund). Beton- und Stahlbetonbau 106(1), pp. 31-38. (in German)

+Stephan, D., Krelaus, R., Schmidt, M., 2008. Direct measurement of particle-particle interactions of fines for UHPC using AFM technology. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 375-381. (in book pdf)

+Stephan, D., Schmidt, M., Fehling, E., 2007. Nanotechnologie im Bauwesen – Nanooptimierte Hightech-Baustoffe, 9 Mai 2007. Schriftenreihe Baustoffe und Massivbau (Structural Materials and Engineering Series) 8(8) (Kassel, Germany: University of Kassel, 2007), 111 pgs.

-Stiel, T., Pfeiffer, U., 2003. Einfluss der Betonierrichtung auf Stahlfasebewehrte UHPC Bauteile. Projektarbeit, Kassel University.

-Stiel, T., 2004. Fracture mechanics parameters of CARDIFRC®. Diplomarbeit, Cardiff/Kassel University.

Stiel, T., Karihaloo, B.L., Fehling, E., 2004. Effect of casting direction on the mechanical properties of CARDIFRC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 481-493.

+Stoeux, D., Jacques, L., Guingot, L., 2009. Les résilles en BFUP : Maîtriser le retrait pour jouer avec les formes (UHPFRC net panels : Shrinkage control in view of decorative shapes optimization). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 2.4, 11 pgs. (in French)

Stonehouse, D., 2002. Concrete future – Ductal arrives in Alberta, Lafarge begins introduction into North America. Alberta Construction Magazine (September/October), pp. 96-97.

Stroeven, P., Stroeven, M., 2001. Computer simulation study of particle packing effects involved in design strategies for making HPC. In: Proceedings of the Third International Conference on Concrete Under Severe Conditions – Environment and Loading, 18-20 June 2001, Vancouver, BC, Canada, Eds. N. Banthia, K. Sakai, O.E. Gjørv (Vancouver, BC, Canada: The University of British Columbia, 2001) 1, pp. 1570-1577.

+Strunge, J., Deuse, T., 2008. Special cements for ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 61-68. (in book pdf)

+Strunge, J., 2009. Special cement to produce ultra-high performance concrete to specification without silica fume - Application and design examples (Spezialzement zur praxisgerechten Herstellung von ultrahochfestem Beton ohne Silicstaub - Anwendung und Ausfuhrungsbeispiele). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 75(2), pp. 86-87. (in English and German)

-Suam, S. Sugano, S., Izumi, N., Shimoyama, Y., 2004. An experimental study on precast concrete shell RPC columns. In: Proceedings of the Japan Concrete Institute 26(2), pp. 805-810. (in Japanese)

+Sugano, S., Kimura, H., Shirai, K., 2006. Experimental studies on seismic behaviour of columns and interior beam-column joints which used 200 MPa fiber-reinforced concrete. In: Proceedings of the Eighth U.S. National Conference on Earthquake Engineering, 18-22 April 2006, San Francisco, CA, Paper 555, 10 pgs.

+Sugano, S., Kimura, H., Shirai, K., 2007. Study of new RC structures using ultra-high-strength fiber-reinforced concrete (UFC) – The challenge of applying 200 MPa UFC to earthquake resistant building structures. Journal of Advanced Concrete Technology 5(2), pp. 133-147.

+Sujivorakul, C., Naaman, A.E., 2004. Ultra high–performance fiber-reinforced cement composites using hybridization of twisted steel fibers and micro fibers. In: Proceedings of the Sixth RILEM Symposium on Fiber Reinforced Concretes (FRC) (BEFIB 2004), 20-22 September 2004, Varenna, Italy, Eds. M. di Prisco, R. Felicetti, G.A. Plizzari, pp. 1401-1410.

-Suleiman, M., Vande Voort, T., Sritharan, S., 2010. Behavior of driven ultrahigh-performance concrete H-piles subjected to vertical and lateral loadings. Journal of Geotechnical and Geoenvironmental Engineering 136(10), pp. 1403-1413.

+Sun, G., Lu, P., Touse, S.A., Young, J.F., 1991. The composition of hydrated DSP cement pastes. Ceramic Transactions 16, pp. 381-393.

+Sun, G.-K., Young, J.F., 1993. Quantitative determination of residual silica fume in DSP cement pastes by ^{29}Si NMR. Cement and Concrete Research 23, pp. 480-483.

+Sun, W., Liu, S., Lai, J., 2003. Study on the properties and mechanism of ultra-high performance ecological reactive powder concrete (ECO-RPC). In: Proceedings of the Fourth International RILEM Workshop on High Performance Fiber Reinforced Concrete Composites (HPFRCC4), 15-18 June 2003, Ann Arbor, MI, pp. 409-417.

+Suter, R., Moreillon, L., Clergue, C., Brusa, R., 2009. Éléments de façade complexes en béton fibré à ultra-hautes performances (Complex facade elements made of UHPFRC). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 4.2.3, 13 pgs. (in French)

Suzuki, M., Maruyama, I., Sato, R., 2005. Properties of expansive-ultra high-strength concrete. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-74 II, pp. 1159-1173.

— T —

Tafraoui, A., Lebaili, S., 2006. Design of tools for stamping in reactive powder concrete for thin sheets. Journal of Applied Sciences 6(14), pp. 2927-2931.

Tafraoui, A., Lebaili, S., 2006. Valorization of the sand of dune of the Western Erg (Algeria) in the formulation of the UHPC. Journal of Applied Sciences 6(13), pp. 2833-2836.

+Tafraoui, A., Escadeillas, G., Labaili, S., Vidal, T., 2009. Metakaolin in the formulation of UHPC. Construction and Building Materials 23(2), pp. 669-674.

Taghaddos, H., Mahmoudzadeh, F., Pourmoghaddam, A., Shekarchizadeh, M., 2004. Prediction of compressive strength behaviour in RPC with applying an adaptive network-based fuzzy interface system. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 273-284.

+Tai, Y.S., 2009. Flat ended projectile penetrating ultra-high strength concrete plate target. Theoretical and Applied Fracture Mechanics 51, pp. 117-128.

+Tai, Y.S., 2009. Uniaxial compression tests at various loading rates for reactive powder concrete. Theoretical and Applied Fracture Mechanics 52, pp. 14-21.

+Tai, Y.-S., Sheu, T.-S., 2007. A study of the dynamic mechanics properties of reactive powder concrete by the use of SHPB. Journal of the Chinese Institute of Civil and Hydraulic Engineering 19(3), pp. 401-411. (in Chinese)

+Tai, Y.-S., Tang, C.-C., 2006. Numerical simulation: The dynamic behavior of reinforced concrete plates under normal impact. Theoretical and Applied Fracture Mechanics 45, pp. 117-127.

Tai, Y.-S., Tang, C.-C., 2006. Reactive powder concrete plate response to a flat projectile impact. In: Proceedings of the International Conference on Structures Under Shock and Impact IX, Eds. N. Jones, C.A. Brebbia (Southampton: WIT, 2006), pp. 333-342.

-Tai, Y.-S., 2010. The behaviour of reactive powder concrete at high strain rates. Magazine of Concrete Research 62(11), pp. 763-772.

-Tai, Y.-S., Pan, H.-H., Kung, Y.-N., 2010. Residual strength and deformation of steel fibre reinforced reactive powder concrete after elevated temperature. Journal of the Chinese Institute of Civil and Hydraulic Engineering 22(1), pp. 43-54. (in Chinese)

-Takada, K., Yanai, S., Watanabe, T., Ichinomiya, T., 2003. Controlling method for autogenous shrinkage of ultra-high strength concrete. In: Proceedings of the Japan Concrete Institute 25(1), pp. 1007-1012. (in Japanese)

+Takatsu, H., 2002. Experimental study of steel fiber-reinforced ultra high-strength concrete columns. Takenaka Technical Research Report 58, pp. 9-18. (in Chinese)

Talebinejad, I., Bassam, S.A., Iranmanesh, A., Shekarchizadeh, M., 2004. Optimizing mix proportions of normal weight reactive powder concrete with strengths of 200-350 MPa. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 133-142.

-Tam, C.M., Tam, V.W.Y., Ng, K.M., 2010. Optimal conditions for producing reactive powder concrete. Magazine of Concrete Research 62(10), pp. 701-716.

+Tamura, M., Yoda, K., Oshima, M., Saito, J., Azami, M., 2010. A study on environmental conscious concrete with a full range of secondary byproducts powder for resource conservation in Japan. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, UHPC TT Paper 571, 10 pgs.

Tan, K.-K., Ge., T., Chen, W., Wang, M.-Y., 2007. Tests on mechanics parameters of RPC and its capabilities under contact explosion. Blasting 24(1), pp. 6-9. (in Chinese)

Tanaka, Y., Musya, H., Ootake, A., Shimoyama, Y., Kaneko, O., 2002. Design and construction of Sakata-Mirai footbridge using reactive powder concrete. In: Proceedings of the First fib Congress (FIB 2002), Osaka, Japan, Session 1 – Big projects and innovative structure, pp. 417-424.

-Tanaka, Y., Ootake, A., Uzawa, T., Tsuka, T., Kano, K., Shimoyama, Y., 2002. Structural performance of a 50 m footbridge applying fiber reinforced reactive powder concrete. In: Proceedings of the JCI International Workshop on Ductile Fiber Reinforced Cementitious Composites (DFRCC) – Application and Evaluations, October, 2002, pp. 209-218.

Tanaka, Y., Fukuura, N., Uzawa, T., Sakamoto, J., Maehori, S., Katagiri, M., 2005. Tensile characteristics and modeling of tension softening behavior for ultra high performance fiber-reinforced concrete. Doboku Gakkai ronbunshu (Journal of Materials, Concrete Structures and Pavements) 67(788), pp. 159-173. (in Japanese)

+Tanaka, Y., Musya, H., Fukuura, N., Ooshima, K., 2006. Design of Perfobond strip applied for reactive powder concrete bridge. In: Proceedings of the Second fib Congress, 5-8 June 2006, Naples, Italy, 11 pgs.

+Tanaka, Y., Ishido, M., Kobayashi, T., Ohkawa, M., 2008. Technical development of a long span monorail girder applying ultra high strength fiber reinforced concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 803-810. (in book pdf)

+Tanaka, Y., Maekawa, K., Kameyama, Y., Ohtake, A., Musha, H., Watanabe, N., 2009. Innovation and application of UFC bridges in Japan. In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.1.4, 17 pgs.

+Tanesi, J., Graybeal, B., Simon, M., 2004. Effects of curing procedure on freeze-thaw durability of ultra-high performance concrete. In: Proceedings of the Sixth International RILEM Symposium on Fiber Reinforced Concretes (FRC) (BEFIB 2004), 20-22 September 2004, Varenna, Italy, Eds. M. di Prisco, R. Felicetti, G. Plizzari, pp. 603-613.

-Tang, C.-C., Chen, J.-W., Tai, Y.-S., 2007. A studies of the failure mode on reactive powder concrete plates subjected to impact loading. Chung Cheng Ling Hsueh Pao/Journal of Chung Cheng Institute of Technology 36(1). (in Chinese)

Tang, M.-C., 2004. High performance concrete – past, present and future. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 3-9.

Tang, ????, 2005. Experimental study on corundum-rubble concrete against projectile. Journal of Vibration and Shock 26(6), pp. 37-39. (in Chinese) (not UHPC/RPC, but of interest)

+Tavakoli, F., Bouteille, S., Toutlemonde, F., 2009. Application du projet de dalle gaufrée du PN MIKTI sur un ouvrage à Livron-Loriol (Application of the MIKTI UHPC waffle deck concept for a bridge at Livron-Loriol). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 3.2.4, 11 pgs. (in French)

-Taylor, H.F.W., 1960. Hydrothermal reactions in the system $CaO-SiO_2-H_2O$ and the steam curing of cement and cement-silica products. In: Proceedings of the Fourth International Symposium on the Chemistry of Cement, Washington D.C., pp. 167-190.

-Te Strake, M., 1997. Feasibility of manufacturing reactive powder concrete in Australia. Undergraduate Thesis, UNSW.

-Teichmann, T., Bunje, K., Schmidt, M., Fehling, E., 2002. Durability of ultra-high performance concrete (UHPC). In: Proceedings of the Sixth International Symposium on Utilization of High Strength/High Performance Concrete, Leipzig.

-Teichmann, T., Goldbach, U., 2004. Influence of the precasting process on the material properties of fibre reinforced UHPC. International UHPC Symposium, Kassel.

Teichmann, T., Schmidt, M., 2004. Influence of the packing density of fine particles on structure, strength and durability of UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 313-323.

-Teichmann, T., 2005. Kleben auf UHPC – erste versuchsdaten, forschungsbericht, unveroffentticht. Kassel.

-Teichmann, T., Krelaus, R., 2007. Kleben von Ultrahochfestem Beton. Vortrag 51, BetonTage.

+Teng, T.-L., Chu, Y.-A., Chang, F.-A., Shen, B.-C., 2005. Penetration resistance of reinforced concrete containment structures. Annals of Nuclear Energy 32, pp. 281-298.

Terzijski, I., 2004. Compatibility of components of high and ultra high performance concrete. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 175-186.

+Terzijski, I., 2008. Optimization of UHPC for the model of a pedestrian bridge. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 707-714. (in book pdf)

-Teutsch, M., 2003. Selbstverdichtender und Ultrahochfest Beton – Baustoffe und Konstruktionen fur die Zukunft ? In: Braunschweiger Bauseminar, 13-14 November 2003, Bauforschung und – praxis in schwierigen Zeiten, pp. 91-100.

Teutsch, M., Grunert, J., 2004. Bending design of steel-fibre-strengthened UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 523-532.

Teutsch, M., Grunert, J.P., 2004. Biegebemessung von Bauteilen aus ultrahochfestem Beton (Design for bending and bending with axial force of ultra high performance concrete). Beton- und Stahlbetonbau 99(8), pp. 657-661. (in German)

-Teutsch, M., Steven, G., xxxx. DFG-SPP 1182 – Arbeitsbericht UHPFRC-Druckglieder. (not published)

-Thibaux, T., Tanner, J.A., 2002. Construction des premiers ponts francais en beton fiber a ultra hautes performance/Construction of the first French road bridges made of UHPC. In: Proceedings of La technique francaise du Beton, AFGC, the first FIB congress, 2002, Osaka.

+Thibaux, T., Hajar, Z., Simon, A. Chanut, S., 2004. Construction of an ultra-high performance fibre-reinforced concrete thin-shell structure over the Millau viaduct toll gates. In: Proceedings of the Sixth International RILEM Symposium on Fibre Reinforced Concretes (FRC) (BEFIB 2004), 20-22 September 2004, Varenna, Italy, Eds. M. di Prisco, R. Felicetti, G.A. Plizzri, (RILEM Publications SARL), pp. 1183-1192.

+Thibaux, T., 2009. Renforcement structurel de bâtiments et d'ourages de Génie Civil au moyen de BFUP (UHPFRC application in structural strengthening of buildings and civil structures). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.1.3, 11 pgs. (in French)

-Tian, Z., Wu, H., Jiang, X., Yan, P., Feng, J., 2007. Ultra high performance concrete rpc under compressive impact loading. Journal of PLA University of Science and technology 8(5) (October), p. ~464.

+Tian, Z., Wu, P., Jia, J., 2008. Dynamic response of RPC-filled steel tubular columns with high load carrying capacity under axial impact loading. Transactions of Tianjin University 14(6), pp. 441-449.

-Tian, Z.-M., Wu, H.-J., Jiang, X.-Q., Yan, P.-Y., Feng, J.-W., 2007. Ultra high performance concrete RPC under compressive impact loading. Jiefangjun Ligong Daxue Xuebao/Journal of PLA University of Science and Technology (Natural Science Edition) 8(5), pp. 463-469. (in Chinese)

+Titchell, I., 1991. Environmental degradation of macrodefect-free cements – Part I. Mechanical properties investigation. Journal of Materials Science 26, pp. 1199-1204.

+Tjiptobroto, P., Hansen, W., 1991. Flexural behavior of ultra-high strength concrete with high volume fraction of discontinuous steel fibers. In: Proceedings of the Conference on Advances in Cementitious Composites, 1990, Gaithersburg, MD 16, pp. 581-601.

Tjiptobroto, P., Hansen, W., 1991. Mechanism for tensile strain hardening in high performance cement-based fiber reinforced composites. Cement and Concrete Composites 13(4), pp. 265-273.

-Torii, T., Hayashi, K., Takamori, N., Teraoke, M., Uchida, K., Kato, Y., 2003. Experimental study on mechanical properties of RC beam-column subassemblages using ultra-high-strength materials (Part 1: Outline of experiment). In: Summary of Technical Papers of Annual Meeting of the Architectural Institute of Japan C-2, pp. 513-514. (in Japanese)

+Torrenti, J.M., Matte, V., Maret, V., Richet, C., 1996. High integrity containers for interim storage of nuclear wastes using reactive powder concrete (Application des betons de poudre reactive aux conteneurs de haute integrite pour l'entrposage des dechets radioactifs). In: Proceedings of the Fourth International Symposium on Utilization of High-Strength/High-Performance Concrete (BHP'96), 29-31 May 1996, Paris, France, pp. 1407-1413.

Tournette, D., Pegon, J.-L., Stefanni, A., Dugat, J., 2000. Plaques de tirants d'ancrage en BPR pour terre armée. XXXX, 10 pgs. (in French)

+Toutlemonde, F., Boulay, C., Sercombe, J., Le Maou F., Rensez, S., Adeline, R., 1998. Characterization of reactive powder concrete (RPC) in direct tension at medium to high loading rates. In: Proceedings of the Second International Conference on Concrete under Severe Conditions: Environment and Loading, CONSEC'98, Tromso, Norway, 21-24 June 1998, pp. 887-896.

Toutlemonde, F., Sercombe, J., 1999. FRC containers design to ensure impact performance. In: Proceedings of the 1999 Structures Congress - Structural Engineering in the 21st Century, 18-21 April 1999, New Orleans, LA, USA, Eds. R.R. Avent, M. Alawady (Structural Engineering Institute and American Society of Civil Engineers), pp. 183-186.

Toutlemonde, F., Resplendino, J., Sorelli, L., Bouteille, S., Brisard, S., 2005. Innovative design of ultra high-performance fiber reinforced concrete ribbed slab: Experimental validation and preliminary detailed analysis. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-76 II, pp. 1187-1205.

+Toutlemonde, F., Schaumann, E., Keller, T., 2005. New material properties and modeling rules. NR2C New Road Construction Concepts, Work Package 3 – Innovation in civil engineering, Deliverable D3.2, 62 pgs.

-Toutlemonde, F., et al., 2007. Fatigue performance of UHPFRC ribbed slab applied as a road bridge deck verified according to Eurocodes. In: Proceeding of CONSEC'07, Tours, France.

-Toutlemonde, F., et al., 2007. Local bending tests and punching failure of a ribbed UHPFRC bridge deck. In: Proceedings of FRAMCOS-6, Catania, Italy.

+Toutlemonde, F., Renaud, J.-C., Lauvin, L., Simon, A., Behloul, M., Bouteille, S., Resplendino, J., 2008. Experimental validation of ribbed UHPFRC bridge deck. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 771-778. (in book pdf)

+Toutlemonde, F., Carcasses, M., Lion, M., 2009. Durabilité et évolution in-situ des caractéristiques d'un BFUP : Retour d'expérience sur poutrelles dans un aéroréfrigérant (Field experience from UHPFRC beams within an air cooling tower : In-situ strength and durability parameters evolution). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.3.1, 10 pgs. (in French)

+Toutlemonde, F., Foure, B., Sorelli, L., Baby, F., Marchand, P., Ulm, F.J., 2009. Efforts et acquis de recherche sur les BFUP depuis 2002 en vue de l'actualisation des recommandations de l'AFGC (An overview of research advances from 2002 concerning UHPFRC in view of updating AFGC recommendations). In: Proceedings of the International Workshop on Ultra High Performance Fibre Reinforced Concrete - Designing and Building with UHPFRC: State of the Art and Development, 17-18 November 2009, Marseille, France, AFGC/fib, Paper 5.3.4, 17 pgs. (in French)

-Tsonos, A.G., 2009. Ultra-high-performance fiber reinforced concrete: An innovative solution for strengthening old R/C structure and for improving the FRP strengthening method. In: WIT Transactions on Engineering Sciences – The Fourth International Conference on Computational Methods and Experiments in Materials Characterisation, Materials Characterisation 2009, 17-19 May 2009, New Forest, UK 64, pp. 273-284.

+Tue, N., Schneider, H., 2003., Besonderheiten bei der Bemessung und der konstrucktiven Ausbildung von Bauteilen aus UHPC im Rahmen der Zulassung im Einzelfall. In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 95-116. (in book pdf) (in German)

Tue, N.V., Küchler, M., Schenck, G., Jurgen, R., 2004. Application of UHPC filled tubes in building and bridges. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 807-817. (Kuchler)

Tue, N.V., Schneider, H., Simsch, G., Schmidt, D., 2004. Bearing capacity of stub columns made of NSC, HSC, and UHPC confined by a steel tube. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 339-350.

-Tue, N.V., et al, 2006. Konkretisierung der tragsysteme des mit UHFB gefullten verbundrohres, AbschluBbericht 2005, Universitat Leipzig.

+Tue, N.V., Küchler, M., Ma, J., Henze, S., 2006. Überlegungen zur anwendungsorientierten Stoffzusammensetzung von UHFB., Beton und Stahlbetonbau 101(11), pp. 834-841. (in German) (Kuchler)

+Tue, N.V., Henze, S., Küchler, M., Schenck, G., Wille, K., 2007. Ein optoanalytisches Verfahren zur Bestimmung der Faserverteilung und – orientierung in stahlfaserverstärktem UHFB. Beton- und Stahlbentonbau 102(10), pp. 674-680. (in German) (Kuchler)

+Tue, N.V., Henze, S., 2008. Determination of the distribution and orientation of fibres in steel fibre reinforced UHPC by photographic method. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 505-512. (in book pdf)

+Tue, N.V., Knitl, J., Henze, S., Bogl, S., 2008. New precast structures made of ultra-high performance concrete – Concepts, implementation, prospects (Neue vorgefertigte Konstruktionen aus ultrahochfestem Beton – Konzepte, praktische Umsetzung, Perspektiven). BFT 74(2), pp. 92-93. (in English and German)

+Tue, N.V., Küchler, M., 2008. Load and deformation behaviour of confined ultra high performance concrete dowels. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 553-560. (in book pdf) (Kuchler)

+Tue, N.V., Ma, J., Orgass, M., 2008. Influence of addition method of superplasticizer on the properties of fresh UHPC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 93-100. (in book pdf)

-Tue, N.V., Henze, S., Kuchler, M., Ma, J., 2010. Produktinnovationen aus ultrahochfestem beton in der praxis. Beispiele und empfehlungen fur marktgerechte materialanwendungen (Innovative ultra-high performance concrete products in practice. Examples and recommendations for material applications in line with market demand). Betonwerk und Fertigteil-Technik/Concrete Plant and Precast Technology 76(2), pp. 92-93. (in German)

-Tue, N.V., XXXX. Stellunhnahme zu den Anforderungen an Baustoffeigenschaften und zum Bemessungskonzept der Gartnerplatzbrucke aus UHFB, Universitat Leipzig, Insitut fur Massivbau und Baustofftechnologie.

— U —

+Uchida, Y., Niwa, J., Tanaka, Y., Katagiri, M., 2006. Outlines of “Recommendations for design and construction of ultra high strength fiber reinforced concrete structure” by JSCE. In: Proceedings of the International RILEM Workshop on High Performance Fiber Reinforced Cementitious Composites in Structural Applications, Eds. G. Fischer, V.C. Li, pp. 343-351.

-Ueda, N., Fujikake, K., Ohno, T., Katagiri, M., 2005. Dynamic flexural behaviors of RPC beams under high-rate loadings. In: Proceedings of the Third International Conference on Construction Materials, N. Banthia, T. Uomoto, A. Bentur, S.P. Shah, Eds., University of British Columbia, Vancouver.

-Ujiie, T., Shimizu, K., Kanakubo, T., Katagiri, M., 2005. Shear behavior of fiber-reinforced RPC beams. In: Proceedings of the Japan Concrete Institute 27(2), pp. 1339-1344. (in Japanese)

-Ujiie, T., Shimizu, K., Kanakubo, T., Katagiri, M., 2005. Shear bending behavior of RC beams using ultra high strength concrete. In: Proceedings of the Annual Convention of the Japan Concrete Institute 27(2), pp. 1339-1344. (in Japanese)

Ujike, I., Kato, K., Konishi, Y., Numata, M., 2005. A study on crack prevention at service state of reinforced concrete member fortified tension zone by reactive powder composite. Zairyo (Journal of the Society of Materials Science) 54(8), pp. 855-860. (in Japanese)

+Ujike, I., Sogo, H., Takasuga, D., Konishi, Y., Numata, M., 2007. Cracking and deformation of RC beams strengthened with reactive powder composites. In: Proceedings of the Sixth International Conference on Fracture Mechanics of Concrete and Concrete Structures - Design, Assessment and Retrofitting RC Structures, 17-22 June 2007, Catania, Italy 2, pp. 903-910.

-Ulm, F.,-J., 2001. Development of 2-D and 3-D software for assessment and design of structures made of ductile high performance cementitious composites. Progress report to the Lafarge Group, September 28, 2001.

-Ulm, F.-J., 2003. Elastic and elasto-plastic modeling of Shawnessy LRT canopies. Report, Boston, MA.

-Ulm, F.-J., Chuang, E., 2003. UHPC design issues. Technical Forum Presentation, Massachusetts Institute of Technology, Cambridge, MA.

-Ulm, F.-J., 2004. Bond and shear design of Iowa DOT sampler bridge. Cambridge, MA: MIT.

+Ulm, F.-J., Acker, P., 2008. Nanoengineering UHPC materials and structures. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 3-9. (in book pdf)

+Uzawa, T., Zhao, W., Tsuka, T., Kano, K., Tanaka, Y., Maehori, S., 2002. Evaluation of structural performance of ultra high performance concrete. In: Proceedings of the First FIB Congress, 2002, Osaka, pp. 77-82.

— V —

Van Breugel, K., Guang, Y., 2004. Analyses of hydration processes and microstructural development of UHPC through numerical simulation. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 253-264.

Van Herwijnen, F., Fielt, R., 2005. Prefabricated canopy in ultra-high performance concrete. In: Proceedings of the Eighteenth BIBM International Congress of the Precast Concrete Industry, 11-14 May 2005, Amsterdam (Woerden, Netherlands, 2005), pp. 6-7 (60-62).

-Van Tuan, N., Ye, G., Van Breugel, K., Fraaij, A.L.A., Bui, D.D., 2011. The study of using rice husk ash to produce ultra high performance concrete. Construction and Building Materials 25(4), pp. 2030-2035.

+Vande Voort, T., Suleiman, M., Sritharan, S., 2008. Design and performance verification of UHPC piles for deep foundations (Final report of project entitled Use of Ultra-High Performance Concrete in Geotechnical and Substructure Applications). CTRE (Center for Transportation Research and Education), Iowa State University, Ames, Iowa, USA IHRB Project TR-558, 224 pgs.

-Vande Voort, T., Suleiman, M., Sritharan, S., 2009. Characterization of precast UHPC pile driveability. In: Proceedings of Selected Papers of the 2009 International Foundation Congress and Equipment Expo - Contemporary Topics in Deep Foundations, 15-19 March 2009, Orlando, FL, Geotechnical Special Publication 185, pp. 303-310.

Vanikar, S.N., Triandafilou, L.N., 2005. Implementation of high-performance concrete bridge technology in the USA. In: Proceedings of the Seventh International Symposium on Utilization of High-Strength/High-Performance Concrete, Ed. H.G. Russell (Farmington Hills, MI, USA: American Concrete Institute, 2005) ACI SP-228-1 I, pp. 1-11.

Vellmer, C., Gehrke, M., Middendor, B., 2004. Seeing at the nanoscale: Hydration of pozzolanic and cementitious materials. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 143-152.

+Verbeck, G., Copeland, L.E., 1972. Some physical and chemical aspects of high pressure steam curing. In: Proceedings of the Menzel Symposium on High Pressure Steam Curing (Detroit, MI, USA: American Concrete Institute, 1972) ACI SP-32-1, pp. 1-13.

+Vernet, C., Lukasik, J., Prat, E., 1998. Nanostructure, porosity, permeability, and diffusivity of ultra high performance concretes (UHPC). In: Proceedings of the First International Symposium on High-Performance and Reactive Powder Concretes (Sherbrooke '98), 16-20 August 1998, Sherbrooke, Quebec, Canada, Eds. P.-C. Aïtcin, Y., Delagrave 3, pp. 17-35.

-Vernet, C., 1999. Projet REACTIF betons ductiles 97 T 0087. Durabilite des betons du type Ductal®. Synthese global. Roapport interne du 06/12/99.

+Vernet, C., Moranville, M., Cheyrezy, M., Prat, E., 2000. Ultra-high durability concretes - Chemistry and microstructure. In: Proceedings of the International Conference on High Performance Concrete – Workability, Strength, and Durability, 10-15 December 2000, Hong Kong and Shenzhen, China, pp. 867-873.

Vernet, C., 2002. Enseignements tirés des recherches sur les BFUP – Synthèse de la présentation du 20.09.2002. Chapitre ACI de Paris, 14 pgs.

Vernet, C.P., 2003. UHPC microstructure and related durability performance - Laboratory assessment and field experience examples. In: Proceedings of the Third International Symposium on High Performance Concrete/PCI National Bridge Conference, 19-22 October 2003, Orlando, FL, USA, 19 pgs.

Vernet, C.P., 2004. Ultra-durable concretes: Structure at the micro- and nanoscale. MRS Bulletin 29(5), pp. 324-327.

-Vertergaard, N., 1994. Tensile post crack behaviour of steel fibre reinforced ultra high strength concrete. In: Bangkok Proceedings, 21(November, 1994).

Vincenzino, E., Culham, G., Perry, V.H., Zakariasen, D., Chow, T.S., 2005. First use of UHPFRC in thin precast concrete roof shell for Canadian LRT station. PCI Journal (September-October), pp. 50-67.

+Vogel, H., Davoudi, S., Noël, M., Svecova, D., 2008. Evaluation of properties of high strength concrete for prestressed concrete prisms. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 287-294. (in book pdf) (Noel)

Vogt, C., Lagerblad, B., Hugo-Persson, T., 2004. Optimization of UHPC for selective stabilization of deep boreholes. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 769-781.

Voo, J., Foster, S.J., Gilbert, R.I., Gowripalan, N., 2001. Design of disturbed regions in reactive powder concrete bridge girders. High Performance Materials in Bridges, ASCE, pp. 117-127.

-Voo, Y.L., 2002. Behaviour of non flexural regions of reactive powder concrete bridge girders. In: Proceedings of the Fourth International PhD Symposium in Civil Engineering, 2002, Munich, Springer-VDI-Verlag GmbH and Co. KG 2, pp. 403-409.

Voo, J.Y.L., Foster, S.J., Gilbert, R.I., 2003. Shear strength of fibre reinforced reactive powder concrete girders without stirrups. UNICIV Report No. R-421, The University of New South Wales, Studies from School of Civil and Environmental Engineering (Sydney, Australia: The University of New South Wales, 2003), 132 pgs.

-Voo, Y.L., 2004. An investigation into the behaviour of prestressed reactive powder concrete girders subject to non-flexural actions. PhD Thesis, School of Civil and Environmental Engineering, The University of New South Wales, Sydney, Australia.

Voo, Y.L., 2005. Evolution of concrete technology – The new challenge. Jurutera (March), pp. 20-26.

+Voo, Y.L., Foster, S.J., Gilbert, R.I., 2006. Shear strength of fiber reinforced reactive powder concrete prestressed girders without stirrups. In: Journal of Advanced Concrete Technology 4(1), pp. 123-132.

-Voo, Y.L., Poon, W.K., Foster, S., 2010. Shear strength of steel fiber-reinforced ultrahigh- performance concrete beams without stirrups. Journal of Structural Engineering 136(11), pp. 1393-1400.

— W —

+Walraven, J., 2003. Ultra-Hochleistungsbeton: Zukunftsvision oder Irrtum? In: Ultra-Hochfester Beton Planung und Bau der ersten Brücke mit UHPC in Europa, Tagungsbeiträge zu den 3. Kasseler Baustoff- und Massivbautagen, am 10. September 2003, Eds. M. Schmidt, E. Fehling (Kassel, Germany: University of Kassel Press GmbH, 2003), pp. 117- 118. (in book pdf) (in German)

Walraven, J.C., 2004. Designing with ultra-high performance concrete: Basics, potential and perspectives. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 853-864.

+Walraven, J.C., 2006. Ultra high performance concrete: From fundamentals to praxis. In: ibausil 2006, International Baustoffragung, 2006, Weimar 2, pp. 1457-1468.

-Walraven, J.C., 2006. Ultra-hogesterktebeton: een material in ontwikkeling. Cement 5, pp. 57-61. (in Dutch)

+Walraven, J., 2008. On the way to design recommendations for UHPFRC. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 45-56. (in book pdf)

-Wang, B., Dai, J.-G., Xu, S.-L., 2010. Evaluation of the fracture properties of the bond interfaces between UHTCC overlays and concrete substrates. In: Proceedings of the Twelfth International Conference on Engineering, Science, Construction, and Operations in Challenging Environments - Earth and Space 2010, pp. 3512-3520.

Wang, D.-R., Ge, T., Zhou, Z.-P., Wang, M.-Y., 2006. Investigation of calculation method for anti-penetration of reactive power steel fiber concrete (RPC). Explosion and Shock Waves 26(4), pp. 367-372. (in Chinese)

Wang, D.-R., Song, H., Zhao, Y.-T., Wang, Z.-H., 2006. Experimental investigation of local failure of steel-fiber reactive power concrete (RPC) shelter plate under contact explosion. Blasting 23(3), pp. 5-9. (in Chinese)

-Wang, D.-R., Dai, M., Li, J., Wang, M.-Y., 2008. Failure effect of steel-fiber reactive power concrete (RPC) shelter plate under contact explosion. Baozha Yu Chongji/Explosion and Shock Waves 28(1), pp. 67-74. (in Chinese)

-Wang, F., Fang, Z., 2009. Performance research on long-span RPC concrete continuous rigid frame bridge. Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences 36(4), pp. 6-12. (in Chinese)

-Wang, L.-W., Pang, B.-., Yang, Z.-Q., Chi, R.-Q., 2010. Dynamic behavior for steel-fiber reinforced reactive powder concrete after exposure in high temperature. Jianzhu Cailiao Xuebao/Journal of Building Materials 13(5), pp. 620-625. (in Chinese)

+Wang, Y., Wang, Z., Liang, X., An, M., 2008. Experimental and numerical studies on dynamic compressive behavior of reactive powder concretes. Acta Mechanica Solida Sinica 21(5), pp. 420-430.

-Wang, Y.-C., Ho, W.-C., Lee, M.-G., 2007. Experimental study on seismic performance of damaged beam-column joints repaired by different retrofit schemes. Journal of the Chinese Institute of Civil and Hydraulic Engineering 19(3), pp. 449-457. (in Chinese)

-Wang, Y.-H., Liang, X.-Y., Wang, Z.-D., An, M.-Z., Yan, G.-P., 2008. Experimental study on the impact compressive behavior of reactive powder concrete. Gongcheng Lixue/Engineering Mechanics 25(11), pp. 167-172+204. (in Chinese)

-Wang, Y.-H., Xiao, Y.-N., Bi, Y.-J., Lu, M., Cai, L.-G., 2008. Anti-penetration performance of reactive powder concrete reinforced with steel-wire-net. Jiefangjun Ligong Daxue Xuebao/Journal of PLA University of Science and Technology (Natural Science Edition) 9(1), pp. 57-61. (in Chinese)

-Wang, Y.-M., Duan, J.-X., Wang, D.-R., Zhang, J.-X., 2010. Test on anti-fragment ability of ultra-high reactive powder concrete blast-door. Jiefangjun Ligong Daxue Xuebao/Journal of PLA University of Science and Technology (Natural Science Edition) 11(3), pp. 296-300. (in Chinese)

Washer, G., Fuchs, P., Graybeal, B., 2003. Elastic properties of reactive powder concrete. In: Proceedings of the International Symposium on Non-Destructive Testing in Civil Engineering (NDT-CE 2003) (Deutsche Gesellschaft fur Zerstorungsfreie Prufung), 9 pgs.

Washer, G., Fuchs, P., Graybeal, B.A., Hartmann, J.L., 2004. Ultrasonic testing of reactive powder concrete. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 51(2), pp. 193-201.

Washer, G., Fuchs, P., Rezai, A., Ghasemi, H., 2005. Ultrasonic measurement of the elastic properties of ultra high performance concrete (UHPC). In: Proceedings of the SPIE Conference on Nondestructive Evaluation and Health Monitoring of Aerospace Materials, Composites, and Civil Infrastructure IV, 8-10 March 2005, San Diego, CA, USA (Bellingham, Washington: SPIE, 2005) 5767, pp. 416-422.

+Weber, S., Rümmelin, A., 2007. Ultra high performance fibre reinforced cement composite under dynamic loading. In: Advances in Construction Materials, Ed. C.U. Grouse (Berlin: Springer, 2007), pp. 229-235. (Rummelin)

-WeiBe, D., 2003. Verbundverhalten der Bewehrung in UHFB. In: Ultrahochfester Beton, Innovationen im Bauwesen, Beitrage aus Praxis und Wissenschaft, Eds., G. Konig, K. Holschemacher, F. Dehn. Bauwerk-Verlag, Berlin, pp. 199-214.

+Weiße, D., Ma, J., 2003. Mechanical properties of ultra high strength concrete. Leipzig Annual Civil Engineering, LACER 8, pp. 175-184. (Weibe)

Weisman, J., web2007. Reactive Powder Concrete. Penn State University, 13 pgs. (presentation) http://www.personal.psu.edu/users/j/r/jrw5001/Reactive%20Powder%20Concrete2.ppt

-Weizu, Q., Feng, C., 1999. A new ultra-high performance concrete – reactive powder concrete. Industrial construction 29(4), pp. 16-18. (in Chinese)

Wen-yu, J., Ming-zhe, A., Gui-ping, Y., Jun-min, W., 2004. Study of reactive powder concrete used in the sidewalk system of the Qinghai-Tibet railway bridge. In: Proceedings of the International Workshop on Sustainable Development and Concrete Technology, 20-21 May 2004, Beijing, China, Ed. K. Wang (Ames, Iowa, USA: Center for Transportation Research and Education, Iowa State University, 2004), pp. 333-338.

+Wiens, U., Schmidt, M., 2008. State of the art report on ultra high performance concrete of the German committee for structural concrete (DafStb). In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 629-637. (in book pdf)

-Wight, G., Rebentrost, M., Cavill, B., 2007. Designing bridges with Ductal® reactive powder concrete. In: Proceedings of the Twenty-third Biennial Conference of the Concrete Institute, 18-20 October 2003, Adelaide, Australia, pp. 249-258.

-Wille, K., Kim, D.J., Naaman, A., 2010. Strain-hardening UHP-FRC with low fiber contents. Materials and Structures/Materiaux et Constructions, pp. 1-16.

+Williams, E.M., Graham, S.S., Akers, S.A., Reed, P.A., Rushing, T.S., 2009. Mechanical properties of a baseline UHPC with and without steel fibers. In: Proceedings of the Fourth International Conference on Computational Methods and Experiments in Materials Characterisation (Materials Characterisation 2009), 17-19 May 2009, New Forest, UK 64, pp. 93-104.

+Williams, E.M., Graham, S.S., Reed, P.A., Rushing, T.S., 2009. Laboratory characterization of Cor-Tuf concrete with and without steel fibers. US Army Corps of Engineers – Engineer Research and Development Center, ERDC/GSL TR-09-22, 86 pgs.

Wise, S., Satkowski, J.A., Scheetz, B., Rizer, J.M., Mackenzie, M.L., Double, D.D., 1985. Development of a high strength cementitious tooling/moulding material. In: Proceedings of the Very High Strength Cement-Based Materials Symposium, 27-28 November 1984, Boston, Massachusetts, USA, Ed. J.F. Young (Pittsburgh, PA: Materials Research Society, 1985) 42, pp. 253-263.

Wittel, F.K., Kun, F., Herrmann, H.J., 2006. Damage simulation of high performance fiber reinforced concrete. In: Proceedings of the Conference on Damage in Composite Materials: Simulation and Non-Destructive Testing, 18-19 September 2006, Stuttgart, Germany (CDCM06), 11 pgs.

Wong, A.C.L., Childs, P.A., Berndt, R., Macken, T., Peng, G.-D., Gowripalan, N., 2007. Simultaneous measurement of shrinkage and temperature of reactive powder concrete at early-age using fibre Bragg grating sensors. Cement and Concrete Composites 29, pp. 490-497.

+Wu, C., Oehlers, D.J., Rebentrost, M., Leach, J., 2009. Energy-controlled design of reinforced ultra-high performance fiber concrete slabs against airblast loads. Key Engineering Materials 400-402, pp. 107-112.

+Wu, C., Oehlers, D.J., Rebentrost, M., Leach, J., Whittaker, A.S., 2009. Blast testing of ultra-high performance fibre and FRP-retrofitted concrete slabs. Engineering Structures 31(9), pp. 2060-2069.

Wu, H.-C., Li, V.C., 1994. Trade-off between strength and ductility of random discontinuous fiber reinforced cementitious composites. Cement and Concrete Composites 16(1), pp. 23-29.

-Wu, X.., Han, S., Xu, S., 2008. Pseudo strain hardening model of ultra high performance cementitious composites under flexural loading. Fuhe Cailiao Xuebao/Acta Materiae Compositae Sinica 25(2), pp. 129-134. (in Chinese)

-Wu, X.-G., Xu, S.-L., Wu, M.-X., 2009. Fracture parameters study and application of ultra high performance fiber reinforcement concrete. Gongcheng Lixue/Engineering Mechanics 26(3), pp. 93-98. (in Chinese)

-Wu, X.-G., Han, S.-M., 2010. Interface shear connection analysis of ultrahigh-performance fiber-reinforced concrete composite girders. Journal of Bridge Engineering 15(5), pp. 493-502.

+Wu, X.-T., Hu, S.-S., Chen, D.-X., Yu, Z-Q., 2005. Impact compression experiment of steel fiber reinforced high strength concrete. Explosion and Shock Waves 25(2), pp. 125-131. (in Chinese)

-Wu, Y., Lin, Z.-Y., 2005. Experimental study of behavior on RPC filled steel tubular stub columns under axial compression. Zhongguo Gonglu Xuebao/China Journal of Highway and Transport 18(1), pp. 57-62. (in Chinese)

-Wuest, J., 2004. Etude exploratoire des proprietes mechaniques de betons de fibres ultra performants de structures. Diploma thesis, MCS. Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland, 137 pgs. (in French)

-Wuest, J., 2004. Flexural tests on UHPFRC plates. Internal report, MCS, Lausanne.

-Wuest, J., Michels, J., Denarie, E., Bruhwiler, E., 2005. Comportement en traction d'elements en beton de fibres ultra performant combine avec des barres d'armature. In. Proceedings of the RF²B, 4-5 juillet 2005, Lyon, France. (in French)

-Wuest, J., 2007. Comportement structural des betons de fibres ultra performant en traction dans des elements composes. Doctoral thesis No. 3987 (in press). Swiss Federal Institute of Technology (EPFL). Lausanne, Switzerland.

+Wuest, J., Denarié, E., Brühwiler, E., 2007. Measurement and modelling of fibre distribution and orientation in UHPFRC. In: Proceedings of the Fifth International Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC5), July 2007, Mainz, Germany, pp. 259-266. (Bruhwiler, Denarie)

+Wuest, J., Denarié, E., Brühwiler, E., 2008. Model for predicting the UHPFRC tensile hardening response. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 153-160. (in book pdf) (Bruhwiler, Denarie)

— X —

Xiao, G.-L., Gao, R., Li, C.-G., 2004. The static and dynamic properties of combination box girders composed of reactive powder concrete and conventional concrete. Tiedao Xuebao (Journal of the China Railway Society) 26(4), pp. 116-119. (in Chinese)

-Xiao, J., Schneider, H., Dehn, F., Konig, G., 2003. Test on fracture behaviour of ultra high-strength concrete. In: Proceedings of the International Symposium Celebrating Concrete: People and Practice, 3-4 September 2003, Dundee, UK, pp. 369-378.

Xiao, J., Schneider, H., Donnecke, C., Konig, G., 2004. Wedge splitting test on fracture behaviour of ultra high strength concrete. Construction and Building Materials 18(6), pp. 359-365.

+Xiao, X., Guan, F.L., Yan, S., 2008. Use of ultra-high-strength bars for seismic performance of rectangular high-strength concrete frame columns. Magazine of Concrete Research 60(4), pp. 253-259.

Xiao, Y.-N., Wang, Y.-H., Bi, Y.-J., Lu, M.-I., Han, J., Zhang, H.-M., 2005. Anti-penetration of reinforced reactive powder concrete. Jiefangjun Ligong Daxue Xuebao (Journal of PLA University of Science and Technology 6(3), pp. 262-264. (in Chinese)

-Xiao, Y.-N., Wang, Y.-H., Bi, Y.-J., Lu, M., 2008. Study on mechanical performance tests of RPC reinforced with steel wire net and steel fiber. Binggong Xuebao/Acta Armamentarii 29(2), pp. 249-252. (in Chinese)

Xie, Y.-J., Liu, B.-J., Long, G.-C., 2001. Study on reactive powder concrete with ultra-pulverized fly ash. Jianzhu Cailiao Xuebao (Journal of Building Materials) 4(3), pp. 280-284. (in Chinese)

Xing, F., Huang, L.-D., Cao, Z.-L., Deng, L.-P., 2006. Study on preparation technique for low-cost green reactive powder concrete. Key Engineering Materials - Environmental Ecology and Technology of Concrete 302-303, pp. 405-410.

-Xu, S., Li, H., 2008. Review on the development of research and application of ultra high toughness cementitious composites. Tumu Gongcheng Xuebao/China Civil Engineering Journal 41(6), pp. 45-60. (in Chinese)

+Xu, S., Zhang, X., Leung, C.K.L., 2009. A study on flexural performance of RC beam strengthened with UHTCC for improved durability. Key Engineering Materials 400-402, pp. 43-54.

+Xu, S., Hou, L., Zhang, X., 2010. Flexural characteristics of ultrahigh toughness cementitious composite beams with different depths. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 123, 9 pgs.

-Xu, S., Wang, N., Li, Q., 2010. Experimental study on the flexural performance of concrete beam strengthened with ultra high toughness cementitious composites. Tumu Gongcheng Xuebao/China Civil Engineering Journal 43(5), pp. 17-22. (in Chinese)

-Xu, S.-L., Jiang, R., Jia, J.-Q., Sun, G.-Q., Hou, T., 2007. Experimental research on steel reinforced ultra high-strength concrete short columns in seismic performance. Dalian Ligong Daxue Xuebao/Journal of Dalian University of Technology 47(5), pp. 699-706. (in Chinese)

-Xu, S.-L., Wang, H.-C., 2008. Experimental study on bond-slip between ultra high toughness cementitious composites and steel bar. Gongcheng Lixue/Engineering Mechanics 25(11), pp. 53-61. (in Chinese)

— Y —

-Yan, C., Jia, J., 2010.Seismic performance of steel reinforced ultra high-strength concrete composite frame joints. Earthquake Engineering and Engineering Vibration 9(3), pp. 439-448.

+Yan, C., Jia, J., Zhang, J., 2010. Crack pattern and ductility of steel reinforced ultra high strength concrete composite joint subjected to reversal cycle load. Key Engineering Materials 417-418, pp. 845-848.

-Yan, C., Jia, J., Zhang, J., 2010. Seismic behavior of steel reinforced ultra high strength concrete column and reinforced concrete beam connection. Transactions of Tianjin University 16(4), pp. 309-316.

-Yan, C., Jia, J., Zhang, J., 2011. Crack resistance of connections of cross shaped steel encased ultra high-strength concrete column to RC beam under cycle loads. In: Advanced Materials Research – Proceedings of the 2010 International Conference on Advances in Materials and Manufacturing Processes (ICAMMP 2010), 6-8 November 2010, Shenzhen, China 150-151, pp. 1005-1008.

Yan, G., Yan, Z., Fang, Y., 2005. An optimization design procedure for prestressed reactive powder concrete bridge. In: Proceedings of the International Conference on Cement Combinations for Durable Concrete, 5-7 July 2005, Dundee, Scotland, UK, Eds. R.K. Dhir, T.A. Harrison, M.D. Newlands (London: Thomas Telford Publishing, 2005), pp. 449-456.

-Yan, G., Liu, P., Yu, Q., 2006. Experimental investigation on compressive strength of 200 MPa reactive powder concrete. Jianzhu Jiegou Xuebao/Journal of Building Structures 27, pp. 94-96. (in Chinese)

-Yan, G., 2009. Application of reactive powder concrete in highway barriers. In: Proceedings of the Second International Conference on Transportation Engineering (ICTE 2009), 25-27 July 2009, Chengdu, China 345, pp. 1232-1237.

Yan, G.-J., Yan, G.-P., An, M.-Z., Chen, Y.-A., 2004. Experimental study on 200 MPa reactive powder concrete. Tiedao Xuebao (Journal of the China Railway Society) 26(2), pp. 116-119. (in Chinese)

Yan, H., Sun, W., Chen, H., 1999. The effect of silica fume and steel fiber on the dynamic mechanical performance of high-strength concrete. Cement and Concrete Research 29(3), pp. 423-426.

+Yan, P.Y., Feng, J.W., 2008. Mechanical behavior of UHPC and UHPC filled steel tubular stub columns. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 355-362. (in book pdf)

Yan, Z., Yan, G., Fang, Y., 2004. Safety and reliability experimental study and finite element analysis on RPC footwalk decks. In: Proceedings of the 2004 International Symposium on Safety Science and Technology, 25-28 October 2004, Shangai, China (Science Press, 2004) 4(B), pp. 2189-2193.

-Yan, Z., An, M., Wu, P., Li, J., Zhang, L., 2009. Experimental study of the bond strength at the interface of reactive powder concrete-filled steel tube columns. Zhongguo Tiedao Kexue/China Railway Science 30(6), pp. 7-11. (in Chinese)

-Yan, Z., An, M., Zhong, T., Yu, Z., 2009. Optimization design study of railway reactive powder concrete bridge. Zhongguo Tiedao Kexue/China Railway Science 30(2), pp. 38-42. (in Chinese)

-Yan, Z., Ji, W., An, M., 2009. Design and experimental study of low-height reactive powder concrete beams. Tumu Gongcheng Xuebao/China Civil Engineering Journal 42(5), pp. 96-102. (in Chinese)

-Yan, Z., Luo, H., An, M., 2010. A study of the bond behavior of the interface of reactive powder concrete filled steel tube columns. Tumu Gongcheng Xuebao/China Civil Engineering Journal 43(8), pp. 57-62. (in Chinese)

-Yan, Z., Huang, Y., An, M., 2011. Axial compression experimental research of RPC filled steel tube columns. In: Advanced Materials Research – Advanced in Composites - Proceedings of the 2010 International Conference on Advances in Materials and Manufacturing Processes (ICAMMP 2010), 6-8 November 2010, Shenzhen, China 150-151, pp. 198-202.

-Yan, Z., Ji, W., An, M., 2011. Design of simple-supported reactive powder concrete railway bridge with span of 32m. In: Advanced Materials Research – Advanced in Structures - Proceedings of the 2010 International Conference on Structures and Building Materials (ICSBM 2011), 7-9 January 2011, Guangzhou, China 168-170, pp. 904-907.

-Yan, Z., Zhong, T., An, M., Ji, W., 2011. Mechanical performance of Reactive Powder Concrete for structure engineering. In: Proceedings of the 2011 International Conference on Materials Science and Engineering Applications (ICMSEA 011), 15-16 January 2011, Xi'an, China, Advanced Materials Research - Materials Science and Engineering Applications 160-162, pp. 498-502.

-Yan, Z.-G., Yan, G.-P., Wu, X., 2005. Study on optimization design of prestressed reactive powder concrete simply supported beam. Beijing Jiaotong Daxue Xuebao/Journal of Beijing Jiaotong University 29(1), pp. 18-22. (in Chinese)

Yan, Z.-G., Yan, G.-P., 2006. Experimental study and finite element analysis on RPC footwalk braces. Key Engineering Materials - Environmental Ecology and Technology of Concrete 302-303, pp. 713-719.

-Yang, I.H., Joh, C., Kim, B.-S., 2010. Structural behavior of ultra high performance concrete beams subjected to bending. Engineering Structures 32(11), pp. 3478-3487.

+Yang, J., Fang, Z., 2009. Behavior of prestressed ultra high performance concrete beams. Key Engineering Materials 400-402, pp. 385-390.

-Yang, J., Fang, Z., 2009. Flexural behaviors of ultra high performance concrete T beams prestressed with CFRP tendons. Tiedao Xuebao/Journal of the China Railway Society 31(2), pp. 94-103. (in Chinese)

-Yang, J., Fang, Z., 2009. Normal section bearing capacity of ultra high performance concrete beam. Zhongguo Tiedao Kexue/China Railway Science 30(2), pp. 23-30. (in Chinese)

-Yang, J., Fang, Z., 2009. Research on flexural behaviors of prestressed ultra high performance concrete beams. Zhongguo Gonglu Xuebao/China Journal of Highway and Transport 22(1), pp. 39-46. (in Chinese)

-Yang, S.-W., Liu, L.-M., Wang, Y.-W., Ba, H.-J., 2010. SHPB experiment of steel fiber reactive powder concrete exposed to high temperature. Sichuan Daxue Xuebao (Gongcheng Kexue Ban)/Journal of Sichuan University (Engineering Science Edition) 42(1), pp. 25-29. (in Chinese)

+Yang, S.L., Millard, S.G., Soutsos, M.N., Barnett, S.J., Le, T.T., 2009. Influence of aggregate and curing regime on the mechanical properties of ultra-high performance fibre reinforced concrete (UHPFRC). Construction and Building Materials 23(6), pp. 2291-2298.

+Yang, W., Huang, Z., 2003. Study on RPC durability capacity. Hunningtu Yu Shuini Zhipin (China Concrete and Cement Products), pp. 19-20. (in Chinese)

-Yang, Y., 2000. Manufacturing reactive powder concrete using common New Zealand materials. Thesis – Master of Engineering, Department of Civil and Resource Engineering, University of Auckland, New Zealand, Report No. 598, 153 pgs.

Yao, Z.-X., Zhou, J., 2005. Study on fracture energy of reactive powder concrete reinforced by steel-polypropylene hybrid fiber. Jianzhu Cailiao Xuebao (Journal of Building Materials) 8(4), pp. 356-360. (in Chinese)

Yao, Z.-X., Zhou, R.-Z., Shi, C.-E, 2005. Fracture mechanical properties of reactive powder concrete. Fuzhou Daxue Xuebao (Ziran Kexue Ban) (Journal of Fuzhou University (Natural Science Edition)) 33(2), pp. 196-200. (in Chinese)

Yao, Z.-X., Zhou, J., Zhou, R.-Z., 2006. Experimental study on fracture properties of reactive powder concrete (RPC). Journal of Building Materials 9(6), pp. 654-659. (in Chinese)

Yazici, H., 2007. The effect of curing conditions on compressive strength of ultra high strength concrete with high volume mineral admixtures. Building and Environment 42, pp. 2083-2089.

+Yazici, H., Yardimci, M.Y., Aydin, S., Karabulut, A.S., 2008. Mechanical properties of reactive powder concrete containing mineral admixtures under different curing regimes. Construction and Building Materials 23(3), pp., 1223-1231.

+Yazici, H., Yigiter, H., Karabulut, A.S, Baradan, B., 2008. Utilization of fly ash and ground granulated blast furnace slag as an alternative silica source in reactive powder concrete. Fuel 87(12), pp. 2401-2407.

-Yazici, H., Yardimci, M.Y., Yigiter, H., Aydin, S., Türkel, S., 2010. Mechanical properties of reactive powder concrete containing high volumes of ground granulated blast furnace slag. Cement and Concrete Composites 32(8), pp. 639-648.

+Ye, H.-W., 2009. Technology of ultra-high strength/high performance concrete applied to Guangzhou Xita Tower construction. Key Engineering Materials 405-406, pp. 1-4.

-Ying-Zi, Y., Lepech, M.D., Li, V.C., 2005. Self-healing of engineered cementitious composites under cyclic wetting and drying. In: Proceedings of the International Workshop on Durability of Reinforced concrete under Combined Mechanical and Climatic Loads, Qingdao, China, pp. 231-242.

+Young, J.F., 1991. Macro-defect-free cement: A review. Materials Research Society Symposium Proceedings 179, pp. 101-121.

Yu, L.-H., Zhong, J.-R., Luo, W.-N., 2002. Technology of reactive powder concrete. Journal of East China Jiaotong University 19(4), pp. 28-31. (in Chinese)

-Yu, Z., An, M., Yan, G., 2008. Experimental research on the fatigue performance of reactive powder concrete. Zhongguo Tiedao Kexue/China Railway Science 29(4), pp. 35-40. (in Chinese)

-Yu, Z., An, M., 2010. Economic study on structural members of environmental friendly high performance concrete. In: Proceedings of the 2010 International Conference on Mechanic Automation and Control Engineering, MACE2010, 26-28 June 2010, Wuhan, China 5536395, pp. 4717-4720. (in Chinese)

Yu, Z.-R, Yan, G.-P., Zhang, M.-B, 2006. Bending strength and deformation character of reactive powder concrete. Beijing Jiaotong Daxue Xuebao (Journal of Beijing Jiaotong University) 30(1), pp. 40-43. (in Chinese)

-Yu, Z.-R., An, M.-Z., 2009. Fatigue damage of reactive powder concrete. Huanan Ligong Daxue Xuebao/Journal of South China University of Technology (Natural Science) 37(3), pp. 114-119. (in Chinese)

-Yu, Z.-R., An, M.-Z., Sun, M.-L., 2010. The damage cumulative and residual life prediction of RPC under multi-stage fatigue load. Beijing Gongye Daxue Xuebao/Journal of Beijing University of Technology 36(7), pp. 907-913. (in Chinese)

+Yuguang, Y., Walraven, J., Uijl, J.D., 2008. Study on bending behaviour of an UHPC overlay on a steel orthotropic deck. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 639-646. (in book pdf)

+Yunsheng, Z., Wei, S., Sifeng, L., Chujie, J., Jianzhong, L., 2008. Preparation of C200 green reactive powder concrete and its static-dynamic behaviors. Cement and Concrete Composites 30, pp. 831-838.

— Z —

Zakariasen, D., Perry, V., 2004. Ultra-high performance concrete with ductility: Design, prototyping, and manufacturing of panels and boxes. In: Thin Reinforced Cement-Based Products and Construction System, Ed. A. Dubey, ACI SP-224-06 (Farmington Hills, MI: American Concrete Institute, 2004), pp. 71-79.

Zanni, H., Cheyrezy, M., Maret, V., Philippot, S., Nieto, P., 1996. Investigation of hydration and pozzolanic reaction in reactive powder concrete (RPC) using 29Si NMR. Cement and Concrete Research 26(1), pp. 93-100.

+Zehentner, H., 2007. Innovative precast elements of high-strength and ultra-high-strength concrete to increase the punching shear resistance of flat slabs (Innovative Fertigteilelemente aus hochfestem und ultrahochfestem Beton zur Erhöhung des Durchstanzwiderstandes von Flachdecken). BFT 73(2), pp. 52-53. (in English and German)

-Zenati, A., Arroudj, K., Lanez, M., Oudjit, M.N., 2009. Influence of cementitious additions on rheological and mechanical properties of reactive powder concretes. Physics Procedia 2(3), pp. 1255-1261.

-Zeng, J., Klingenberg, P. Bayasi, Z., 2000. Slurry infiltrated mat concrete (SIMCON) for rehabilitation of bridges and pavements. In: High Performance Fiber-Reinforced Concrete in Infrastructural Repair and Retrofit, ACI SP-185, pp. 55-68.

-Zhang, C.-Y., Ji, W.-Y., An, M.-Z., 2010. Experimental study on early autogenous shrinkage of 20m-span low-height reactive powder concrete T-beam. In: Proceedings of the 2010 International Conference on Mechanic Automation and Control Engineering (MACE2010), 26-28 June 2010, Wuhan, China, pp. 1068-1071. (in Chinese)

Zhang, D., Li, Z., Chen, H., Shi, J., Su, Q., Wang, H., Wang, W., 2004. On designing and implementing for Chinese use 150 MPa ultra-high-strength cement-based composites. Xibei Gongye Daxue Xuebao (Journal of Northwestern Polytechnical University) 22(3), pp. 309-312. (in Chinese)

Zhang, H.-M., Wang, Y.-H., Bi, Y.-J., Lu, M., 2005. An investigation on the static and dynamic performance for the particular kind of concrete reinforced with steel-wire-net. Journal of Experimental Mechanics 20(2), pp. 315-319. (in Chinese) (? UHPC/RPC, but of interest)

-Zhang, J., 2003. Experiment investigation on behavior of reactive powder concrete filled steel stub-columns. Master thesis. Fuzhou University, Fuzhou.

-Zhang, J., Yan, C., Jia, J., 2010.Crack resistance capacity of SRUHSC column to RC beam joint under frequent earthquake load. In: Proceedings of the 2010 International Conference on Mechanic Automation and Control Engineering, MACE2010, 26-28 June 2010, Wuhan, China 5536864, pp. 1106-1109.

-Zhang, J., Yan, C., Jia, J., 2011. Calculation methods on crack resistance capacity of SRUHSC column to SRC beam joint subjected to reversal cycle load. In: Advanced Materials Research – Proceedings of the 2010 International Conference on Advances in Materials and Manufacturing Processes (ICAMMP 2010), 6-8 November 2010, Shenzhen, China 152-153, pp. 1835-1838.

-Zhang, J., Yan, C., Jia, J., 2011. Crack pattern of SRUHSC column and SRC beam joint subjected to reversal cycle load. In: Advanced Materials Research – Proceedings of the 2010 International Conference on Advances in Materials and Manufacturing Processes (ICAMMP 2010), 6-8 November 2010, Shenzhen, China 152-153, pp. 1125-1128.

Zhang, L., An, M., Yan, G., 2005. Reactive powder concrete and its application. The World's Science and Technology Research and Development 27(6), pp. 49-52. (in Chinese)

-Zhang, L.-J., An, M.-Z., 2005. Preliminary study on fabrication process of RPC500. Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology 37, pp. 85-88. (in Chinese)

Zhang, M., Yan, G., Zhong, T., Yan, G., 2006. Study on flexural performance of 200 MPa reactive powder concrete. Progress in Safety Science and Technology, pp. 2335-2339.

-Zhang, M., Yan, G., Yu, Z., Zhong, T., 2008. Nonlinear full-range flexural analysis of reactive powder concrete beams. Zhongguo Tiedao Kexue/China Railway Science 29(3), pp. 24-28. (in Chinese)

+Zhang, M., Xing, F., Deng, L.-P., Cao, Z.-L., Huang, Z., 2009. Study on low-cost reactive powder concrete and its application. Key Engineering Materials 405-406, pp. 62-68.

Zhang, M.H., Shim, V.P.W., Lu, G., Chew, C.W., 2005. Resistance of high-strength concrete to projectile impact. International Journal of Impact Engineering 31(7), pp. 825-841.

-Zhang, M.-B., Yan, G.-P., Yan, G.-J., An, M.-Z., 2007. Experimental research on the flexing resistance of 200 MPa reactive powder concrete. Beijing Jiaotong Daxue Xuebao/Journal of Beijing Jiaotong University 31(1), pp. 81-84. (in Chinese)

Zhang, R.-Q., Tang, W.-H., Zhao, G.-M., Shi, Z.-Y., Sun, Y., Gong, C.-C., 2004. Experimental study of the long rod projectile penetrating three kinds of concrete. Journal of National University of Defense Technology 26(5), pp. 22-25. (in Chinese) (not UHPC/RPC, but of interest)

Zhang, S., Guo, Z.-K., Huang, Y., Wang, Z.-Q., 2004. Application of neural networks to strength forecast of reactive powder concrete. Henan Keji Daxue Xuebao (Ziran Kexue Ban) (Journal of Henan University of Science and Technology (Natural Science)) 25(2), pp. 75-77. (in Chinese)

-Zhang, S.-L., Zhu, P.-C., Dong, X.-L., 2009. Discussion of some problems in larger-size Hopkinson compressive bar. Binggong Xuebao/Acta Armamentarii 30(2), pp. 288-291. (in Chinese)

Zhang, W., Can, J., Cheng, R., Xiao, Y., Lu, F., Wang, Z., 2006. Experimental study of mechanical properties of CFT under blast loading. Journal of Vibration and Shock 25(5), pp. 96-101. (in Chinese) (not UHPC/RPC, but of interest)

+Zhang, X., Sun, W., Rong, Z., Zhang, Q., 2008. Investigation of the microstructure and mechanism of ultra-high performance cementitious composites. In: Proceedings of the International Conference on Microstructure Related Durability of Cementitious Composites, Eds. W. Sun, K. van Breugel, C. Miao, G. Ye, H. Chen, (RILEM Publications), pp. 77-86.

-Zhang, X., Xu, S., 2008. Improvement of the flexural and cracking behavior of RC beams using ultra-high toughness cementitious composites (I): Theoretical analysis. Tumu Gongcheng Xuebao/China Civil Engineering Journal 41(12), pp. 48-54. (in Chinese)

-Zhang, X., Xu, S., Hou, L., 2009. Influence of reinforcement ratio on flexural behavior of RUHTCC beams. Tumu Gongcheng Xuebao/China Civil Engineering Journal 42(12), pp. 16-24. (in Chinese)

-Zhang, X., Xu, S., Li, H., 2010. Theoretical analysis of flexural performance of plain concrete composite beams strengthened with ultrahigh toughness cementitious composite. Tumu Gongcheng Xuebao/China Civil Engineering Journal 43(7), pp. 51-62. (in Chinese)

+Zhang, X.F., Xu, S.L., 2010. Ductility evaluation of UHTCC reinforced structural members. In: Proceedings of the Third International fib Congress and Exhibition and PCI Bridge Conference, 29 May-2 June 2010, National Harbor, MD, Paper 122, 9 pgs.

-Zhang, X.-Z., Sun, W., Rong, Z.-D., Zhang, Q.-Q., 2008. Influence of reactive mineral admixtures on microstructure of ultra-high performance cementitious composites. Shenzhen Daxue Xuebao (Ligong Ban)/Journal of Shenzhen University Science and Engineering 25(4), pp. 338-344. (in Chinese)

+Zhao, G., Hao, W., 2010. Strength and ductility of reactive powder concrete columns. Key Engineering Materials 417-418, pp. 621-624.

Zhao, G.-F., 2000. Development and applications of concrete and its reinforcing materials. Jianzhu Cailiao Xuebao (Journal of Building Materials) 3(1), pp. 1-6. (in Chinese)

Zhao, G.-F., Zhong, W.-Q., 2003. Development and application of high-performance materials in structural engineering. Dalian Ligong Daxue Xuebao (Journal of Dalian University of Technology) 43(3), pp. 257-261. (in Chinese)

-Zhao, M., Yan, G., Hao, W., 2008. Simulation analysis and design of RPC lattice slab in high-speed railway. Beijing Jiaotong Daxue Xuebao/Journal of Beijing Jiaotong University 32(1), pp. 64-68. (in Chinese)

-Zhao, Q., Liu, Z., Zhang, J., Zhao, R., 2011. Research on impact behavior of reactive powder concrete. In: Advanced Materials Research – Advanced in Composites - Proceedings of the 2010 International Conference on Advances in Materials and Manufacturing Processes (ICAMMP 2010), 6-8 November 2010, Shenzhen, China 150-151, pp. 779-782.

-Zheng, W., Lu, S., Zhang, M., 2009. Experimental research on mechanical property of reactive powder concrete with fly ash and blast slag beam. Jianzhu Jiegou Xuebao/Journal of Building Structures 39(3), pp. 62-70. (in Chinese)

-Zheng, W.-Z., Zhao, J.-W., Zhang, B.-Y., 2008. Experiment and analysis of local compression bearing capacity of reactive powder concrete. Nanjing Li Gong Daxue Xuebao/Journal of Nanjing University of Science and Technology 32(3), pp. 381-386. (in Chinese)

-Zheng, W.-Z., Li, L., 2009. Preparation and mix proportion calculation of reactive powder concrete. Hunan Daxue Xuebao/Journal of Hunan University Natural Sciences 36(2), pp. 13-17. (in Chinese)

-Zhong, S.-Y., Gao, H.-Q., Wang, Y.-M., 2008. Preparation of reactive powder concrete with high fluidity. Jianzhu Cailiao Xuebao/Journal of Building Materials 11(1), pp. 58-63. (in Chinese)

-Zhong, S.-Y., Wang, Y.-M., Gao, H.-Q., 2008. Effect of fibers on strength of self-compacting reactive powder concrete. Jianzhu Cailiao Xuebao/Journal of Building Materials 11(5), pp. 522-527. (in Chinese)

Zhou, B.-K., Tang, D.-G., Chen, X.-X., Zhou Z.-S., He, H.-C., 2004. Experimental study of anti-penetration characteristics of nubbly corundum concrete. Journal of Experimental Mechanics 19(1), pp. 79-84. (in Chinese) (not UHPC/RPC, but of interest)

Zhou, B.-K., Tang, D.-G., Zhou, Z.-S., Wang, A.-B., 2005. Study of influence of hit velocity on the anti-penetration behavior of nubbly corundum concrete. Explosion and Shock Waves 25(1), pp. 59-63. (in Chinese) (not UHPC/RPC, but of interest)

-Zhou, C.-M., Ji, W.-Y., 2005. Analysis of shear lag effect in prestressed reactive powder concrete box girder. Harbin Gongye Daxue Xuebao/Journal of Harbin Institute of Technology 37(3), pp. 296-299. (in Chinese)

Zhou, Q.Q., ?et al, 2003. Microstructure and strength of reactive powder concrete. Journal of Chinese Electron Microscopy Society 22(6) pp. 594-595. (in Chinese)

Zhou, R., Yao, Z., Shi, C., 2005. Experimental study on material fracture and fatigue properties based on reactive powder concrete. Shuili Fadian Xuebao (Journal of Hydroelectric Engineering) 24(6), pp. 40-44. (in Chinese)

+Zilch, K., Muhlbauer, C., 2007. Zum Fügen von Ultra-Hochfestem Beton (UHPC) durch Verkleben – Grundlegende Untersuchungen (Joining of ultra high performance concrete (UHPC) by gluing – Basic research). VDI-Berichte 1970, pp. 37-46. (in German)

-Zilch, K., xxxx. Fugen von Bauteilen aus ultrahochfestem Beton (UHPC) durch Verkleben. DFG SPP 1182, ZI 134/22-1.

Zimmerman, G., Teichmann, T., 2004. Membrane concrete grid shells – UHPC grid shells. In: Ultra High Performance Concrete (UHPC), Proceedings of the International Symposium on Ultra High Performance Concrete, 13-15 September 2004, Kassel, Germany, Eds. M. Schmidt, E. Fehling, C. Geisenhanslüke (Kassel, Germany: Kassel University Press, 2004), pp. 839-852.

+Zimmermann, G., Grohmann, M., 2008. UHPC free form design with pneumatic formwork. In: Ultra High Performance Concrete (UHPC), Proceedings of the Second International Symposium on Ultra High Performance Concrete, 5-7 March 2008, Kassel, Germany, Eds. E. Fehling, M. Schmidt, S. Stürwald (Kassel, Germany: Kassel University Press, 2008), pp. 871-878. (in book pdf)

-Znidaric, A., Denarie, E., Richardson, M., Woodward, R., 2004. SAMARIS Project: Advanced materials for the rehabilitation of highway structures in Europe. In: Proceedings of the Second International Conference on Bridge Maintenance, Safety and Management (IABMAS'04), Kyoto, Japan.

Section 3: U.S. and Foreign Patents on UHPC and Precursor Materials

The following is a listing of patent websites and patents on UHPC and precursor materials:

Patent websites

European Patent Office

http://www.epo.org/patents.html

http://gb.espacenet.com/search97cgi/s97_cgi.exe?Action=FormGen&Template=gb/EN/home.hts

US Patent and Trademark Office, Department of Commerce

http://www.uspto.gov/patents/index.jsp

World Intellectual Property Organization

http://www.wipo.int/portal/index.html.en

Patent download

http://free.patentfetcher.com/Patent-Fetcher-Form.php

Patents

DE 36 36 644 A1. Sicherheitstechnik, G., 1988. Verwendung einer Betonmischung als Füllstoff für Tresorwände, 4 pgs.

+EPO 0 038 126 A1. Birchall, J.D., Kendall, K., Howard, A.J., 1981. Cementitious composition and cement product produced therefrom, 20 pgs. (Application)

+EPO 0 038 126 B1. Birchall, J.D., Kendall, K., Howard, A.J., 1984. Cementitious composition and cement product produced therefrom, 7 pgs.

+EPO 0 055 035 A1. Birchall, J.D., Howard, A.J., Kendall, K., Ralstrick, J.H., 1982. Cementitious composition and cementitious product of high flexural strength, 39 pgs.

+EPO 0 269 715 B1. Bache, H.H., 1993. Compact reinforced composite. 122 pgs.

EPO 0 273 181 A3. Double, D.D., Wise, S., 1989. Cementitious composite material containing metal fiber, 2 pgs.

EPO 0 350 365 A1. Ficheroulle, B., Serfass, J.-P., 1990. Béton compacté renforcé de fibres et son utilisation, 9 pgs.

EPO 0 350 365 B1. Ficheroulle, B., Serfass, J.-P., 1991. Béton compacté renforcé de fibres et son utilisation, 9 pgs.

EPO 0 451 014 A1. Thiery, J., Schoennahl, J., 1991. Composition de béton pour la fabrication de moules, moule et procédé de fabrication d'un moule, 7 pgs.

FR 2 633 922. Ficheroulle, B., Serfass, J.-P., 1990. Béton compacté renforcé de fibres et son utilisation, 14 pgs.

FR 2 640 962. Faure, J.-C., Hanus, F., Thiery, J., 1990. Béton composite à très hautes performances et procédé pour sa mise en œuvre, 10 pgs.

+GB 2 391 010 A. Karihaloo, B.L., Benson, S.D.P., Alaee, F.J., 2004. Cementitious mixtures, 2 pgs. (Application – CARDIFF)

+GB 2 391 010 B. Karihaloo, B.L., Benson, S.D.P., Alaee, F.J., 2005. Cementitious mixtures and a method of production thereof, 16 pgs. (CARDIFF)

+US 3,689,294. Braunauer, S., 1972. Portland cement compositions and method, 7 pgs.

US 4,118,242. Kjöhl, O., Olstad, P.H., 1978. Process for Manufacturing Concrete of High Corrosion Resistance, 5 pgs.

US 4,310,486. Cornwell, C.E., Plunguian, M., 1982. Compositions of Cementitious Mortar, Grout and Concrete, 3 pgs.

+US 4,353,746. Birchall, J.D., Kendall, K., Howard, A.J., 1982. Hydraulic cement composition, 6 pgs.

+US 4,353,747. Birchall, J.D., Kendall, K., 1982. Hydraulic cement composition, 5 pgs.

+US 4,353,748. Birchall, J.D., Kendall, K., Howard, A.J., 1982. Cementitious product, 7 pgs.

+US 4,363,667. Birchall, J.D., Kendall, K., Howard, A.J., 1982. Cementitious composition and cement produced therefrom, 5 pgs.

+US 4,366,255. Lankard, D.R., 1982. Highly reinforced refractory concrete with 4-20 volume % steel fibers, 4 pgs.

US 4,410,366. Birchall, J.D., Howard, A.J., Kendall, K., Raistrick, J.H., 1983. Cement Composition and Product, 11 pgs.

US 4,472,201. Ochi, Y., Uchida, Y., Ohnishi, Y., Kuroda, K., Shibata, Y., 1984. Hydraulic Heat-resisting Materials and Premold Product Made of Such Hydraulic Heat-resisting Materials, 9 pgs.

US 4,482,385. Satkowski, J.A., Scheetz, B., Rizer, J.M., Gotzmer, C., 1984. Cementitious Composite Material with Stainless Steel Particulate Filler, 8 pgs.

US 4,501,830. Miller, R., Rizer, J.M., 1985. Rapid Set Lightweight Cement Product, 3 pgs.

US 4,504,320. Rizer, J.M., Gotzmer, C., 1985. Light-weight Cementitious Product, 6 pgs.

US 4,505,753. Scheetz, B., Rizer, J.M., Hahn, M., 1985. Cementitious Composite Material, 4 pgs.

US 4,559,881. Lankard, D.R., Shoop, J.D, 1985. Burglary Resistant Steel Fiber Reinforced Concrete Construction for Vault Walls and Doors and Manufacture Thereof, 17 pgs.

+US 4, 593,627. Lankard, D.R., Shoop, D., 1986. Burglary attack resistant money safe high fiber concrete reinforced metal encased wall and door construction and manufacture, 13 pgs.

US 4,599,211. Wise, S., MacKenzie, M.L., 1986. Thermal Treatment of Concretes Containing Stainless Steel, 3 pgs.

US 4,666,520. Bright, R.P., Double, D.D., Wise, S., 1987. Cementitious Composite Materials with Silicon Carbide Aggregate, 4 pgs.

US 4,780,141. Double, D.D., Wise, S., 1988. Cementitious Composite Material Containing Metal Fiber, 11 pgs.

US 4,891,071. Bright, R.P., Wise, S., MacKenzie, M.L., 1990. Cementitious Composite Material with Vacuum Integrity at Elevated Temperatures, 4 pgs.

US 4,979,992. Bache, H.H., 1990. Compact Reinforced Composite, 75 pgs.

US 5,188,791. Thiery, J., Schoennahl, J., 1993. Concrete Composition for the Manufacture of Moulds, Mould and Process for the Manufacture of a Mould, 4 pgs.

US 5,246,495. Helmstetter, J.G., 1993. Material for Improving the Strength of Cementitious Material, 4 pgs.

US 5,503,670. Richard, P., Cheyrezy, M.H., Roux, N., 1996. Metal Fiber Concrete Compositions for Molding Concrete Elements, Elements Obtained and Curing Process, 17 pgs.

US 5,522,926. Richard, P., Cheyrezy, M.H., Dugat, J., 1996. Method and a Composition for Preparing Concrete Elements Having Remarkable Compressive Strength and Fracture Energy, and Elements Obtained Thereby, 8 pgs.

+US 5,609,680. Kobayashi, T., Pushpalal, G.K.D., Hasegawa, M., 1997. Cement, cement products, molding material, a concrete member and a method of producing the same, 15 pgs.

+US 5,614,009. Kobayashi, T., Pushpalal, G.K.D., Hasegawa, M., 1997. Cement, cement products, molding material, a concrete member and a method of producing the same, 15 pgs.

+US 5,651,816. Kobayashi, T., Pushpalal, G.K.D., Hasegawa, M., 1997. Cement, cement products, molding material, a concrete member and a method of producing the same, 16 pgs.

US 5,783,297. Wise, S., Herzfeld, C.J., 1998. Materials for Shock Attenuation, 15 pgs.

US 6,080,234. Clavaud, B., Cochet, G., Gnagne, C., Targe, J.-P., 2000. Composite Concrete, 7 pgs.

US 6,358,603 B1. Bache, H.H., 2002. Hard Impact Resistant Composite, 24 pgs.

US 6,478,867 B1. Cheyrezy, M., Dugat, J., Clavaud, B., Orange, G., Frouin, L., 2002. Metal Fibre Concrete, Cementitious Matrix and Pre-mixes for Preparing Matrix and Concrete, 22 pgs.

US 6,723,162 B1. Cheyrezy, M., Dugat, J., Orange, G., Froin, L., 2004. Concrete Comprising Organic Fibres Dispersed in a Cement Matrix, Concrete Cement Matrix and Premixes, 21 pgs.

US 6,881,256 B2. Orange, G., Prat, E., Casanova, P., Behloul, M., 2005. Fire-resistant High Performance Concrete Composition, 8 pgs.

US 6,887,309 B2. Casanova, P., Chong, H., Clavaud, B., 2005. Highly Resistant and Ductile Fiber Concrete, 8 pgs.

+US 7,744,690 B2. Durst, B.P., Neeley, B.D., O'Neil, E.F., Cummins, T.K., 2010. Blast-resistant concrete also suitable for limiting penetration of ballistic fragments, 10 pgs.

+WO 87/07597 A1, PCT/DK87/00072. Bache, H.H., 1987. Compact reinforced composite, 178 pgs.

WO 95/01316, PCT/FR94/00800. Richard, P.E., Cheyrezy, M.H., Roux, N.P.J., 1995. Metal Fiber Concrete Composition for Casting a Concrete Element, Elements Obtained and Method of Thermal Curing, 40 pgs.

WO 95/01317, PCT/FR94/00798. Richard, P.-E., Cheyrezy, M.H., Dugat, J., 1995. Method and Composition for Fabricating Concrete Elements having Remarkable Compression Resistance and Fracturation Energy, and Elements thus Obtained, 22 pgs.

WO 96/01234, PCT/EP95/02586. Di Maggio, R., Franchini, M., Guerrini, G., Migliaresi, C., Poli, S., 1996. MDF Cement Compositions with Improved Impact Strength, 24 pgs.

WO 96/22953, PCT/FR96/00122. Clavaud, B., Cochet, G., Gnagne, C., Targe, J.-P., 1996. Composite Concrete, 24 pgs.

WO 99/28267, PCT/FR98/02552. Cheyrezy, M., Dugat, J., Clavaud, B., Orange, G., Frouin, L., 1999. Metal Fibre Concrete, Cementitious Matrix and Pre-mixes for Preparing Matrix and Concrete, 59 pgs.

WO 99/58468, PCT/FR99/01145. Cheyrezy, M., Dugat, J., Boivin, S., Orange, G., Frouin, L., 1999. Concrete Comprising Organic Fibres Dispersed in a Cement Matrix, Concrete Cement Matrix and Premixes, 52 pgs.

WO 01/58826 A1, PCT/FR01/00369. Orange, G., Prat, E., Casanova, A., Behloul, M., 2001. Fire-resistant High Performance Concrete Composition, 31 pgs.

WO 02/083590 A3, PCT/GB02/01774. Karihaloo, B.L., Benson, S.D.P., Alaee, F.J., 2002. Cementitious mixtures, 5 pgs.

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. REPORT DATE *(DD-MM-YYYY)*
August 2011

2. REPORT TYPE
Final report

3. DATES COVERED *(From - To)*

4. TITLE AND SUBTITLE
Ultra High Performance Concrete Information and Literature Search-2011 (UHPC I&LS-2011)

5a. CONTRACT NUMBER

5b. GRANT NUMBER

5c. PROGRAM ELEMENT NUMBER

6. AUTHOR(S)
Beverly P. DiPaolo

5d. PROJECT NUMBER

5e. TASK NUMBER

5f. WORK UNIT NUMBER

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Army Engineer Research and Development Center
Geotechnical and Structures Laboratory
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

8. PERFORMING ORGANIZATION REPORT NUMBER
ERDC/GSL SR-11-1

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
Headquarters, U.S. Army Corps of Engineers
Washington, DC 20314-1000

10. SPONSOR/MONITOR'S ACRONYM(S)

11. SPONSOR/MONITOR'S REPORT NUMBER(S)

12. DISTRIBUTION / AVAILABILITY STATEMENT
Approved for public release; distribution is unlimited.

13. SUPPLEMENTARY NOTES

14. ABSTRACT Ultra high performance concrete (UHPC) materials are advanced cementitious materials that display much higher levels of technical performance compared to conventional strength and high strength concretes. This category can include materials such as defect-free, dense particle, reactive powder, engineered composite, multi-scale particle, and fiber-reinforced concretes. UHPC materials can have unique advantages with respect to response capabilities, mechanical properties, environmental stability, construction methods and forms, and aesthetic qualities and have the potential to help revitalize a deteriorating infrastructure. This report is the 2011 version of search results for open-source information and technical literature references on UHPC materials. References are provided on product information from engineering and scientific journals, conference proceedings, magazine articles, books, and patents. The scope extends from basic and applied research to construction projects.

15. SUBJECT
Ultra high performance concrete
UHPC
Defect free, Dense particle,
Reactive powder, Engineered composite
Multi-scale particle
Fiber -reinforced

16. SECURITY CLASSIFICATION OF:			**17. LIMITATION OF ABSTRACT**	**18. NUMBER OF PAGES**	**19a. NAME OF RESPONSIBLE PERSON**
a. REPORT	**b. ABSTRACT**	**c. THIS PAGE**			**19b. TELEPHONE NUMBER** *(include area code)*
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED		176	

Standard Form 298 (Rev. 8-98)
Prescribed by ANSI Std. 239.18