

IWB-Veröffentlichungen 2010

Assmann, A.; Reinhardt, H.-W.: Some aspects of superabsorbent polymers (SAPs) in concrete technology. - In: Fisher, G.; Geiker, M.; Hededal, O.; Ottosen, L.; Stang, H.: *8th Int. PhD Symposium in Civil Engineering; June 20-23, 2010, Techn. Univ. of Denmark ; Proceedings*. Lyngby : Techn. Univ. of Denmark, 2010, S. [299-304]

Bachmaier, S. A.: A report on system and radio transmission issues in a star topology WSN. - In: Kolla, R. (Hrsg.): *9. Fachgespräch Sensornetze der GI/ITG Fachgruppe Kommunikation und Verteilte Systeme; 16. -17. September 2010*, S. 63-66

Bekalo, S.; A.; Reinhardt, H.-W.: Fibers of coffee husk and hulls for the production of particleboard. - In: *Materials and Structures* 43 (2010), Nr. 8, S. 1049-1060

Eligehausen, R.; Fuchs, W.: Design of fastenings for use in concrete - actual state of codes. - In: Hirt, M.A.; Radic, J.; Mandic, A.: *Codes in Structural Engineering : developments and needs for international practice ; Joint IABSE - FIB Conference Dubrovnik 2010, Cavtat, May 3-5, 2010*. Zagreb : SECON-CSSE, 2010, S. 599-606

Fischer, C.; Ozbolt, J.; Gehlen, C.: Numerical investigations on bond behavior of corroded reinforcement. - In: Oh, B.H.; Choi, O.C.; Chung, L. (Eds.): *Proceedings of the 7th Int. Conf. on Fracture Mechanics of Concrete and Concrete Structures (FRAMCOS-7), Jeju, Korea, May, 23-28, 2010*. Seoul : Korea Concrete Institute, 2010, S. 779-785

Fischer, C.: Experimental investigations on the effect of corrosion on bond of deformed bars. - In: Fisher, G.; Geiker, M.; Hededal, O.; Ottosen, L.; Stang, H.: *8th Int. PhD Symposium in Civil Engineering; June 20-23, 2010, Techn. Univ. of Denmark ; Proceedings*. Lyngby : Techn. Univ. of Denmark, 2010, S. [99-104]

Fischer, C.; Ozbolt, J.; Gehlen, C.: Experimentelle und numerische Untersuchungen zum Einfluss der Bewehrungskorrosion auf das Verbundverhalten zwischen Stahl und Beton. - In: *Beton- und Stahlbetonbau* (2010), Nr. 5, S. 284-293

Fuchs, W.: Die neue VDI / BV-BS 6205 Guideline for transport anchors : eine praxisgerechte Richtlinie?. - In: *Betonwerk und Fertigteiltechnik* (2010), Nr. 254. *Betontage, Ulm*, S. 106-107

Fuchs, W.: Transportanker und Transportankersysteme für Betonfertigteile : Grundlagen, Bemessung, Anwendungen. - In: *Bauingenieur* 85 (2010), Nr. 4, S. A 8 - A 10

Fuchs, W.; Kintscher, M.; Roik, M.: Inserts for Lifting and Handling of Precast Elements – Where are the European Codes? A State of the Art. In: Hirt, M.A.; Radic, J.; Mandic, A.: *Codes in Structural Engineering : developments and needs for international practice ; Joint IABSE - FIB Conference Dubrovnik 2010, Cavtat, May 3-5, 2010*. Zagreb : SECON-CSSE, 2010, S. 1357-1364

Genesio, G.; Eligehausen, R.; Akgüzel, U.; Pampanin, S.: Application of post-installed anchors for seismic retrofit of RC frames. - In: *14th European Conference on Earthquake Engineering, August 30-September 03, 2010, Ohrid, Republic of Macedonia*. Skopje : Macedonian Association for Earthquake Engineering, 2010

Genesio, G.; Eligehausen, R.; Pampanin, S.: Seismic assessment of pre-1970s RC beam-column joints. - In: *14th European Conference on Earthquake Engineering, August 30-September 03, 2010, Ohrid, Republic of Macedonia*. Skopje : Macedonian Association for Earthquake Engineering, 2010

Genesio, G.; Eligehausen, R.; Sharma, A.; Pampanin, S.: Experimental and numerical study towards a deformation-based seismic assessment of substandard exterior R.C. beam-column joints. - In: Oh, B.H.; Choi, O.C.; Chung, L. (Eds.): *Proceedings of the 7th Int. Conf. on Fracture Mechanics of Concrete and Concrete Structures (FRAMCOS-7), Jeju, Korea, May, 23-28, 2010*. Seoul : Korea Concrete Institute, 2010, S. 1794-1801

Genesio, G.; Sharma, A.; Eligehausen, R.; Pampanin, S.; Reddy, G.R. Development of seismic retrofit technique of rc frame using fully fastened haunch elements: static to dynamic testing. In: Kumar, A. (Ed.): *Earthquake engineering : proceedings of 14th Symposium on Earthquake Engineering, held at Indian Institute of Technology, December 17 - 19, 2010, Roorkee, India*. New Delhi : Elite Publ. House, 2010

Grosser, P.; Eligehausen, R.; Ozbolt, J.: 3D FE Analysis of anchor channels and headed anchors under shear load close to an edge. - In: Oh, B.H.; Choi, O.C.; Chung, L. (Eds.): *Proceedings of the 7th Int. Conf. on Fracture Mechanics of Concrete and Concrete Structures (FRAMCOS-7), Jeju, Korea, May, 23-28, 2010*. Seoul : Korea Concrete Institute, 2010, S. 560-567

Hofmann, J.: Die Qual der Wahl. In: *Fasadentechnik* 16 (2010), Nr. 2, S. 20-23

Huss, A.; Reinhardt, H.W.: Design and flow of powder-type SCC with crushed aggregates. - In: Khayat, K.H.; Feys, D. (Eds.): *Design, Production and Placement of Self-Consolidating Concrete : Proceedings*. Dordrecht : Springer, 2010. - (RILEM Bookseries ; 1), S. 3-11

Jensen, O.M.; Mechtcherine, V.; Reinhardt, H.-W.: Preface. - In: Jensen, O.M.; Hasholt, M.T.; Laustsen, S.: *Use of Superabsorbent Polymers and Other New Additives in Concrete : Proceedings of the Int. RILEM Conf., Lyngby, Denmark, August 15-18, 2010*. Bagneux : RILEM Publ.RILEM, 2010. - (Proceedings PRO ; 74), S. XIII-XIV

Krüger, Markus; Grosse, Christian U.; Bachmaier, Sebastian A.; and Willeke, Jan (2010): Wireless Monitoring of the Johanniskirche in Schwäbisch Gmünd. In: N. Banthia; A. Mufti (Eds.): *Conservation of Heritage Structures. 3rd International Workshop on Civil Structural Health Monitoring. Vancouver: The University of British Columbia*. Vancouver : University of British Columbia, 2010, S. 467-480.

Mahrenholtz, C.; Eligehausen, R.; Sharma, A. (2010): Behavior of post-installed concrete undercut anchors subjected to high loading rate and crack cycling frequency. In: *9th U.S. National and 10th Canadian Conference on Earthquake Engineering, 2010*. Oakland, Calif. : Earthquake Engineering Research Institute, 2010, Proceeding Paper No 1589

Mahrenholtz, P.; Eligehausen, R.: Behavior of anchor groups installed in cracked concrete under simulated seismic actions. - In: Oh, B.H.; Choi, O.C.; Chung, L. (Eds.): *Proceedings of the 7th Int. Conf. on Fracture Mechanics of Concrete and Concrete Structures (FRAMCOS-7)*, Jeju, Korea, May, 23-28, 2010. Seoul : Korea Concrete Institute, 2010, S. 816-822

Maierhofer, C., Reinhardt, H.-W., Dobmann, G. (Hrsg.): *Non-destructive evaluation of reinforced concrete structures, Vol. 1 + Vol. 2*. Woodhead Publishing 2010

Nürnberger, U.: Anwendungstechnisches Verhalten verzinkter und nichtrostender Betonstähle. - In: *GfKORR: Korrosionsschutz der Stähle im Kontakt mit Beton : neue Entwicklungen und Forschungsergebnisse; Tagung 7. und 8. Oktober 2010, VDI-Haus Stuttgart*. Frankfurt a.M. : DECHEMA, 2010, S. 62-81

Nürnberger, U., Bütetführ, M., Beul, W.: Möglichkeiten und Grenzen des Einsatzes verzinkter Bauteile in Hallenschwimmbädern. In: *Feuerverzinken - Korrosionsschutz zwischen Tradition und Moderne, Hannover, GAV-Forschungskolloquium 8. - 9. März 2010*. Düsseldorf : Gemeinschaftsausschuss Verzinken, 2010

Nürnberger, U., Köse, C.: Korrosionsverhalten von Anschweißankern aus nichtrostendem Stahl bei hinterlüfteten Außenwandbekleidungen aus Naturwerkstein. In: *Bautechnik* 87 (2010), Nr. 7, S. 373-382

Nürnberger, U., Köse, C.: Korrosionsverhalten geschweißter nichtrostender Stähle bei hinterlüfteten Außenwandbekleidungen. In: *Nichtrostende Stähle - Spezielle Anwendungen und angepasste Lösungen, Dreiländer-Korrosionstagung, Berlin, 19. -20.04.2010*. Frankfurt am Main: GfKORR, 2010, S. 117 -121

Nürnberger, U., Wu, Y.: Corrosion properties of high strength stainless steels in view of a use as prestressing steel. In: *Proceedings of the 3 rd. International fib Congress and PCI Annual Convention 2010, Washington 29.5-2.6.2010*. Chicago, Ill. : PCI, 2010

Ozbolt, J.; Balabanic, G.; Periskic, G.; Kuster, M.: Modelling the effect of damage on transport processes in concrete. - In: *Construction and Building Materials* 24 (2010), S. 1638-1648

Periskic, G.; Ozbolt, J.; Eligehausen, R.: 3d FE analysis of fasteners at elevated temperatures. - In: Oh, B.H.; Choi, O.C.; Chung, L. (Eds.): *Proceedings of the 7th Int. Conf. on Fracture Mechanics of Concrete and Concrete Structures (FRAMCOS-7)*, Jeju, Korea, May, 23-28, 2010. Seoul : Korea Concrete Institute, 2010, S. 835-842

Rao, A., G.; Navya, V.; Hofmann, J.: Strengthening of Non-Seismically Designed Reinforced Concrete Beam-Column Joints, In: *Proceedings of International Conference on Innovative World of Structural Engineering. (ICIWSE-2010, 17.-19.09.2010, Aurangabad, Maharashtra, India, S. 72 -81*

Reinhardt, H.-W.: Behaviour of special concretes in fire. - In: Miao, Ch. (Ed.): *Advances in civil engineering : the 50-year teaching and research anniversary of Prof. Sun Wei, Nanjing, China, October 15, 2008*. Bagnaux : RILEM Publ., 2010. - (RILEM Proceedings PRO ; 71), S. 235-249

Reinhardt, H.-W.: Fully prestressed concrete members with transverse cracks. - In: Forde, M.C. (ed.): *Structural Faults & Repair 2010; 13th Int. Conf.; 15th-17th June 2010*. Edinburgh : Engineering Technics Press, 2010

Reinhardt, H.-W.: *Ingenieurbaustoffe*. 2. Auflage, Berlin: Ernst & Sohn, 2010. - ISBN 978-3-433-02920-6, 382 Seiten

Reinhardt, H.W.: Concrete materials: high-tech and sustainable. - In: Wu, Z.; Wu, G.; Miao, Ch. (Eds.): *Progress in Concrete Structures and Materials : the 4th Int. Forum on Advances in Structural Engineering*, S. 58-79

Reinhardt, H.W.: Perspektiven für nachhaltiges Bauen. In: *Jahresbericht Konstruktiver Ingenieurbau 2010*. Kaiserslautern :Techn. Univ., 2010, S. 31

Reinhardt, H.W.: When to use non-destructive testing of reinforced concrete structures: an overview. - In: Maierhofer, Ch.; Reinhardt, H.W.; Dobmann, G. (Eds.): *Non-destructive evaluation of reinforced concrete structures. Vol. 1: Deterioration processes and standard test methods*. Boca Raton : Woodhead, 2010, S. 24-27

Reinhardt, H.W., Aicher, S.: Cellulose fiber gypsum boards and wall panels under cyclic loading. In: Parra-Montesinos, G.J.; Balaguru, P. (Eds.): *Antoine E. Naaman Symposium – Four decades of progress in prestressed concrete, fiber reinforced concrete, and thin laminate composites*. Farmington Hills, MI, 2010. (ACI Special Publication ; 272), S. 269-280

Reinhardt, H.-W.; Assmann, A.: Application of superabsorbent polymers in lightweight concrete with porous matrix. - In: Jensen, O.M.; Hasholt, M.T.; Laustsen, S.: *Use of Superabsorbent Polymers and Other New Additives in Concrete : Proceedings of the Int. RILEM Conf., Lyngby, Denmark, August 15-18, 2010*. Bagneux : RILEM Publ., 2010. - (RILEM Proceedings PRO ; 74), S. 207-212

Reinhardt, H.W.; Assmann, A.: The effects of SAPs on drying shrinkage, porosity and setting of concrete. - In: Brameshuber, W. (Ed.): *International RILEM Conference on Materials Science : Vol. III: AdIPoC Additions Improving Properties of Concrete; Aachen, Germany, September 6-8, 2010*. Cachan : RILEM, 2010. - (RILEM Proceedings PRO ; 77), S. 155-162

Reinhardt, H.-W., Assmann, A.: *Improved durability of concrete due to SAP*. In: Castro-Borges, P. et al. (Eds.): *Concrete under Severe Conditions - Environment and Loading, Proceedings of the 6th Conference CONSEC'10, Merida, Yucatan, Mexiko, 07-09 June 2010*. Boca Raton : CRC Press, 2010, S. 823-830

Reinhardt, H.-W.; Ozbolt, J.; Travas, V.: Response of concrete members to impact loading. - In: Oh, B.H.; Choi, O.C.; Chung, L. (Eds.): *Proceedings of the 7th Int. Conf. on Fracture Mechanics of Concrete and Concrete Structures (FRAMCOS-7), Jeju, Korea, May, 23-28, 2010, Vol. 3*. Seoul : Korea Concrete Institute, 2010, S. 1707-1714

Reinhardt, H.-W.; Piehl, Ch.; Schwarte, J.: Online-Informationssystem "NBB-Info". - In: *Betonwerk und Fertigteiltechnik* (2010), Nr. 254. *Betontage, Ulm*, S. 26-27

Schmid, K.; Eligehausen, R.: Technical specifications (TS) for anchor channels. - In: Hirt, M.A.; Radic, J.; Mandic, A.: *Codes in Structural Engineering : developments and needs for international practice ; Joint IABSE - FIB Conference Dubrovnik 2010, Cavtat, May 3-5, 2010*. Zagreb : SECON-CSSE, 2010, S. 1349-1356

Sharma, A.; Genesio, G.; Reddy, G.R.; Vaze, K.K. Eligehausen, R.; Pampanin, S. Experimental investigations on seismic retrofitting of reinforced concrete beam-column joints. In: Kumar, A. (Ed.): *Earthquake engineering : proceedings of 14th Symposium on Earthquake Engineering, held at Indian Institute of Technology, December 17 - 19, 2010, Roorkee, India*. New Delhi : Elite Publ. House, 2010

Sharma, A.; Mahrenholtz, C., Eligehausen, R.; Reddy, G.R.; Vaze, K.K.; Ghosh, A.K.; Kushwaha, H.S.: Evaluation of load on anchor for concrete structures corresponding to maximum crack width - A probabilistic approach. In: *International Journal of Earth Sciences and Engineering*, 3 (2010); Nr. 4, S. 798-811

Sharma, A.; Reddy, G.R.; Eligehausen, R.; Vaze, K.K.; Ghosh, A.K.; Kushwaha, H.S.: Experiments on *reinforced concrete* beam-column joints under cyclic loads and evaluating their response by nonlinear static pushover analysis. - In: *Structural Engineering and Mechanics* 35 (2010), Nr. 1

Sharma, A.; Reddy, G. R.; Vaze, K. K.; Ozbolt, J.; Hofmann J.: *Behaviour of plain and reinforced concrete under high rate loading – numerical simulation*. Mumbai, India : Bhaba Atomic Research Centre, 2010. BARC Report BARC/2010/E/014

Wiggenhauser, H., Reinhardt, H.W.: NDT in civil engineering: experience and results of the FOR 384 research group. In: Thompson, D.O. Chimenti, D.E. (Eds.) *Review of Progress in Quantitative Nondestructive Evaluation Volume 29*. Melville, NY : American Inst. of Physics, 2010. (AIP Conference Proceedings ; 1211), pp 47-54