5. Publication list

Chalmers University
Concrete Structures, Chalmers University of Technology

Berg, F. ; Johansson, D. ; Lundgren, K. et al. (2012). *Anchorage capacity of naturally corroded reinforcement in an existing bridge,* Proceedings of the Sixth International Conference on Bridge Maintenance, Safety and Management, IABMAS 2012, Stresa, Lake Maggiore, 8-12 July 2012. s. 2800-2807. ISBN/ISSN: 978-041562124-3 [Nr. 163520]

Fall, D. ; Rempling, R. ; Jansson, A. et al. (2012). *Non-linear Finite Element Analysis of Steel Fibre Reinforced Beams with Conventional Reinforcement* , Proceedings of the Eigth RILEM International Symposium (BEFIB 2013). ISBN/ISSN: 978-2-35158-132-2 [Nr. 174996]

Jansson, A. ; Löfgren, I. ; Lundgren, K. et al. (2012). *Bond between Reinforcement and Self-Compacting Steel-Fibre-Reinforced Concrete,* Proceeding of the Fourth International Conference on Bond in Concrete 2012: Bond, Anchorage, Detailing. 1 s. 323-329. ISBN/ISSN: 978-88-907078-1-0 [Nr. 159602]

Jansson, A. ; Löfgren, I. ; Lundgren, K. et al. (2012). *Bond of reinforcement in self-compacting steel-fibre-reinforced concrete.* Magazine of Concrete Research. 64 (7) s. 617-630. [Nr. 160401]

Lundgren, K. ; Kettil, P. ; Zandi Hanjari, K. et al. (2012). *Analytical model for the bond-slip behaviour of corroded ribbed reinforcement.* Structure & Infrastructure Engineering . 8 (2) s. 157-169. [Nr. 150902]

Lundgren, K. ; Plos, M. ; Zandi Hanjari, K. et al. (2012). *Är förankringskapaciteten tillräcklig i broar med rostande armering?*. Bygg & Teknik. 104 (7) s. 17-19. [Nr. 170144]

Pacoste, C. ; Plos, M. ; Johansson, M. (2012). Recommendations for finite element analysis for the design of reinforced concrete slabs. Stockholm: KTH Royal Institute of Technology. [Nr. 176734]

Zandi Hanjari, K. ; Coronelli, D. ; Lundgren, K. et al. (2012). *Anchorage of corroded bars: eccentric pull-out tests and numerical analysis*, Proceeding of the Fourth International Conference on Bond in Concrete. 1 s. 429-436. [Nr. 159495]

Zandi Hanjari, K. (2012). *Effekterna av rostande armering kartlagda*. Betong. s. 51-53. [Nr. 177047]

Zandi Hanjari, K. ; Utgenannt, P. ; Lundgren, K. et al. (2012). *Influence of frost on the bond between steel and concrete*, Proceeding of the Fourth International Conference on Bond in Concrete. 1 s. 483-490. [Nr. 159497]

Zandi Hanjari, K. ; Flansbjer, M. ; Lindqvist, J. E. et al. (2012). *Structural analysis of concrete members with shear failure*, Proceeding of fib Symposium: Concrete Structures for Sustainable Community, 11 – 12 June 2012, Stockholm, Sweden. s. 165-168. [Nr. 159498]

List of the articles/thesis published in 2012 at CBI Swedish Cement and Concrete Research Institute, Chalmers University of Technology

Flansbjer, M., Lindqvist, J-E., Zandi Hanjari, K., Johansson, G., Löfgren, M. *Mechanical behaviour of concrete piles affected by sulphate attack.* International IABSE Conference: Assessment, Upgrading and Refurbishment of Infrastructures, May 6-8, 2013, Rotterdam, The Netherlands, pp. 556-557.

Flansbjer, M., Lindqvist, JE., Zandi Hanjari, K., Johansson, G. and Löfgren, G., 2012. *Mechanical behaviour of concrete piles affected by sulphate attack.* Proceeding of fib Symposium: Concrete Structures for Sustainable Community, 11 – 12 June 2012, Stockholm, Sweden, pp. 389-392.

Chen Ning, Hao Du, 2012, *Detailed study of the cracking process at the shear failure through FE analysis of beam tests.* Master's Thesis 2012:70, Division of Structural Engineering, Chalmers university of Technology, in collaboration with CBI Swedish Cement and Concrete research Institute.

Delft University of Technology

A.T. Slobbe, M.A.N. Hendriks, J.G. Rots, "*Sequentially Linear Analysis of Shear Critical Reinforced Concrete Beams without Shear Reinforcement*", Finite Elements in Analysis and Design, 50, 2012, 108-124.

M. A. Kyriakides, M. A. N. Hendriks and S. L. Billington, *"Simulation of unreinforced masonry beams retrofitted with Engineered Cementitious Composites in flexure"*, Journal of Materials in Civil Engineering (ASCE), 24, 2012.

Giorgia Giardina, Alessandra Marini, Max A.N. Hendriks, Jan G. Rots, Fabio Rizzardini, Ezio Giuriani, "*Experimental analysis of a masonry façade subject to tunnelling-induced settlements",* Engineering Structures, 45, 2012, 421-434.

Beatrice Belletti, Cecilia Damoni, Max Hendriks, "*Analisi non lineare ad elementi finiti di piastre in c.a.: confronti fra i livelli di approssimazione proposti dal MC2010"*, Proceedings of the 19th CTE conference, Bologna, November 8-10, 2012, pp 1-11.

G. Giardina, S. Boldrini, M.A.N. Hendriks and J.G. Rots (2012), "Pile foundation in 3D modelling of building damage due to settlement", 8th International Conference on Structural Analysis of Historical Constructions 2012, Wroclaw.

R. Esposito, M.A.N. Hendriks, *"Degradation of the mechanical properties in ASR-affected concrete : overview and modeling"*, SSCS 2012: Numerical Modeling Strategies for Sustainable Concrete Structures, Aix en Provence, France, 29 May-1 June, 2012, pp 1-12.

S.W.H. Ensink, A.V. van de Graaf, A.T. Slobbe, M.A.N. Hendriks, J.A. den Uijl, J.G. Rots , *"Modeling of bond behaviour by means of sequentially linear analysis and concrete-to-steel interface elements"*, 4th international symposium on Bond in Concrete, Brescia, Italy, 2012, pp 1-8.

C. Anac, R. Esposito, O. Copuroglu, H.E.J.G. Schlangen, M.A.N. Hendriks, *"A tool for concrete performance assessment for ASR affected structures: An outlook",* in B. Fournier & J.H. Ideker (Eds.), International conference on alkali-aggregate reaction, Texas: University of Texas, 2012, pp. 1-8.

R. Esposito, M.A.N. Hendriks, *"A review of asr modeling approaches for finite element analyses of dams and bridges"*, in B. Fournier & J.H. Ideker (Eds.), International conference on alkali-aggregate reaction, Texas: University of Texas, 2012, pp. 1-10.

G. Giardina, V. Floria, M.A.N. Hendriks and J.G. Rots. *"Vulnerability assessment of buildings subject to tunnel-induced settlements: the influence of orientation and position of the building."* Proc. World Tunnelling Congress 2012, Bangkok, Editors: N. Phienwej, T. Boonyatee, ISBN: 978-974-7167-78-5.

RWS Centre for Infrastructure

Ane de Boer & Nico Booij, “Inspection method related to structural safety of RC structures”, IABMAS2012 Stresa Italy July 2012

RWS Centre for Infrastructure & Delft University of Technology

Ane de Boer and Cornelis van der Veen "Longterm behaviour of cantilever concrete bridges”, Fib Stockholm june 2012

prof.dr.ir. Max Hendriks ir. Joop den Uijl dr.ir. Ane de Boer, “Richtlijn NL-EEM berekeningen”, Cement 2012/4

RWS Centre for Infrastructure & Delft University of Technology & University of Parma

Max A.N. Hendriks, Joop den Uijl, Ane de Boer, Beatrice Beletti, Cecilia Damoni, `Guidelines for Nonlinear Finite Element Analysis of Concrete Structures`, Scope Girder members, Doc.nr.: RTD 1016:2012, Versie:1.0, RWS-DI May 2012

RWS Centre for Infrastructure & Delft University of Technology & TNO

prof.dr.ir.Dr.-Ing. h.c. Joost Walraven, dr.ir. Ane de Boer ir. Gerrie Dieteren “Proefbelasten bruggen”, Cement 2012/4

dr.ir. Cor van der Veen, ir. Jan Gijsbers, dr.ir. Ane de Boer "Drukmembraanwerking”, Cement 2012/4

R.D.J.M. Steenbergen, A. de Boer, C. van der Veen, “Calibration of partial factors in the safety assessment of existing concrete slab bridges for shear failure”, Heron 2012

RWS Centre for Infrastructure & RHDHV

dr.ir. Ane de Boer, ir. Marius Naaktgeboren, ir. Gerrit Wolsink, ir. Rob Vergoossen “Beoordeling gewapende constructies”, Cement 2012/4

RWS Centre for Infrastructure & TNO

dr.ir. Raphaël Steenbergen dr.ir. Ane de Boer “Modellering verkeerslasten”, Cement 2012/4

TNO DIANA BV

E.L. Jansen, T. Rahman, and R. Rolfes. DYNAMIC STABILITY ANALYSIS OF CYLINDRICAL SHELLS USING A REDUCED ORDER MODEL
Proc. ‘12th European Conference on Space Structures, Materials & Environmental Testing’ Noordwijk, The Netherlands, 20–23 March 2012 (ESA SP-691, July 2012)

Chantal Frissen, Gerd-Jan Schreppers, Ane de Boer. MODELL OF SUCCESS
Bridge Design and Engineering, issue 66, 2012, pag. 62-63

TNO Earth, Environmental and Life Sciences

Orlic, B. and Wassing, B.B.T. (2012). A study of stress change and fault slip in producing gas reservoirs overlain by elastic and visco-elastic caprocks. Rock Mechanics and Rock Engineering. DOI 10.1007/s00603-012-0347-6.

Orlic, B., Wassing, B.B.T. (2012). Modeling stress development and fault slip in producing hydrocarbon reservoirs overlain by rock salt caprocks. Proc. of the 46th US Rock Mechanics / Geomechanics Symposium (ARMA), Chicago. Paper no ARMA 12-145.

TNO Technical Sciences Structural Reliability

Abspoel, L.M., Burggraaf, H.G., Borsje, H., Onderzoek naar de oorzaak van het ongeval in de Grolsch Veste - Deelrapport C: Constructieve beoordeling van de overkapping, TNO-rapport TNO-060-DTM-2012-00423, Delft, 7 februari 2012

Pijpers, R.J.M., Borsje, H., Burggraaf, H.G., Onderzoek naar de oorzaak van het bezwijken van een hefdeur van de sluis Eefde - fase 2, TNO-rapport TNO 2012 R10096, Delft, 9 juli 2012 (VERTROUWELIJK)

Burggraaf, H.G., Gijsbers, F.B.J., Vervuurt, A.H.J.M., Veen, C. van der (TU-Delft), Controle hoofdtrekspanningen boven vloer in tussendwarsdrager Brug over de Oude Weg (KW 10H-101) op basis van een 3D eindige elementenanalyse in DIANA, TNO-rapport TNO 2012 R10456, Delft, 17 augustus 2012

University Minho

INTERNATIONAL JOURNALS (cited on ISI Web of Knowledge)

Ghiassi, B., Marcari, G., Oliveira, D.V., Lourenço, P.B., *Numerical analysis of bond behaviour between masonry bricks and composite materials, Engineering Structures, 43, pp. 210-220 (2012).*
DOI: http://dx.doi.org/doi:10.1016/j.engstruct.2012.05.022,
URI: *http://hdl.handle.net/1822/21821*

Lourenço, P.B., Trujillo, A., Mendes, N., Ramos, L.F., *Seismic performance of the St. George of the Latins church: Lessons learned from studying masonry ruins, Engineering Structures, 40(7),* 501-518 (2012). ISSN: 0141-0296. DOI: http://dx.doi.org/10.1016/j.engstruct.2012.03.003. URI: http://hdl.handle.net/1822/21415

INTERNATIONAL JOURNALS (not cited on ISI Web of Knowledge)

Araújo, A.S., Lourenço, P.B., Oliveira, D.V., Leite, J., *Seismic assessment of St. James church by means of pushover analysis – Before and after the New Zealand earthquake, The Open Civil Engineering Journal, 6, p. 160-172 (2012).* ISBN: 1874-1495. DOI: http://dx.doi.org/doi:10.2174/1874149501206010160.
URI: http://hdl.handle.net/1822/21468

INTERNATIONAL MEETINGS

Ademović, N., Oliveira, D.V., *Seismic assessment of a typical masonry residential building in Bosnia and Herzegovina, Proc. 15th World Conference on Earthquake Engineering, Lisbon, Portugal, September 24-28*, CD-ROM, 10 pp. (2012)
URI: http://hdl.handle.net/1822/21997

Araújo, A.F., Lourenço, P.B., Oliveira, D.V., Leite, J.C., *Post-earthquake numerical assessment and reinforcement of St James Church, New Zealand, Proc. 15th World Conference in Earthquake Engineering, SPES, Lisboa, Portugal, September,* 24-28, CD-ROM, 10 pp. (2012). URI: http://hdl.handle.net/1822/21487

Ghiassi, B., Oliveira, D.V., Lourenço, P.B., Marcari, G., *Meso-scale three-dimensional modeling of bond in FRP-strengthened masonry, Proc. First ECCOMAS Young Investigators Conference, Aveiro, Portugal, April 24-27,* CD-ROM, 9 pp. (2012) URI: http://hdl.handle.net/1822/22018

Lourenço, P.B., Filippoupolitis, M., Corallo, C., Mendes, N., *Safety assessment of the South oculus, Canterbury cathedral, Proc. 8th Int. Conf. on Structural Analysis of Historical Constructions, DWE, Wroclaw, Poland, October,* 15-17, p. 302-310 (2012). URI: http://hdl.handle.net/1822/21485

Lourenço, P.B., Roque, J., Oliveira, D.V., *Seismic safety assessment of the church of Monastery of Jerónimos, Portugal, Proc. 15th International Brick and Block Masonry Conference, Florianópolis, Brazil, June, 3-6,* CD-ROM, 10 pp. (2012). URI: http://hdl.handle.net/1822/21477

Mohamad, G., Lourenço, P.B., Roman, H.R., Rizzatti, E., Sartori, T., *Numerical simulation of concrete block masonry under compression, Proc. 15th International Brick and Block Masonry Conference, Florianópolis, Brazil, June, 3-6,* CD-ROM, 10 pp. (2012). URI: http://hdl.handle.net/1822/21479

Parker, W., Uno, M., Lourenço, P.B, Marques, R., Pereira, J.M., Meyer, J., Mayes, R., Weaver, B., *The old Municipal Chambers building – Damaged but nor destroyed – Will it be there in another 125 years?, Proc. the 2012 Structural Engineering Society (SESOC) NZ Conference, Auckland, New Zealand, November, 2-3,* 10 pp. (2012). http://hdl.handle.net/1822/21481