Short CV - HENRIK STANG

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EDUCATION

Master of Science in Engineering
Technical University of Denmark, Lyngby, July 31, 1981.
Lic.techn./ Ph.D.
Department of Structural Engineering,
Technical University of Denmark, June 2,1985. Title of thesis: "A Composite Material Theory and its Application to The Description of Cement Composites Loaded in Tension." (In Danish).

EXPERIENCE

Recent employments

From April 1st, 2000: Director of "3H Inventors ApS"' - licensing patents and know-how on process technology of FRC.

From January 1st , 2006: Professor, Integrated Structures and Materials Design, Department of Civil Engineering, Technical University of Denmark.

From July 1st, 2006 until October 31, 2009: Head of Section for Structural Engineering, Department of Civil Engineering, Technical University of Denmark

From November 1, 2009 until January 2011: Acting Head of Department, Department of Civil Engineering, Technical University of Denmark

From January 2011: Vice Director, Department of Civil Engineering, Technical University of Denmark

Recent major research projects

Marie Curie RTN: NANOCEM. Responsible for one of two subprojects at the Department. Duration: 2006-2009.

FTP-project: Prediction of Flow Induced Inhomogeneities in Self Compacting Concrete. Member of project team at the Department. Duration 2009-2012

NICe-project: Sustainable Rehabilitation of Civil and Building Structures. Responsible for Department's participation. Duration: 2009-2012

Innovation Consortium: Sustainable Concrete Structures using Steel Fiber Reinforcement. Responsible for Department's participation. Duration: 2010-2012

Danish Center for Composite Structures and Materials for Wind Turbines. Responsible for Department's participation. Duration 2010-

Danish Expert Centre for Infrastructure Constructions in collaboration with the Concrete Centre at the Danish Technological Institute. Duration: 2010-2012.

Højteknologifonden: Connovate – optimized building system using High Performance Concrete. Duration: 2011-2013

ACTIVE RESEARCH NETWORKS

ECC Technology Network. Department of Civil and Environmental Engineering, University of Michigan. 2002- (http://www.engineeredcomposites.com/)

Nanocem. A European industrial/ academic partnership for fundamental research on cementitious materials. 2004- (http://nanocem.epfl.ch/nanocem/nanocem2.html)

PUBLICATIONS
List of references comprises 54 papers in refereed journals and 91 conference papers

RECENT Ph.D. STUDENTS AND PROJECTS

Find Mølholt Jensen: *Ultimate strength of a large wind turbine blade*, 2003-2008.

Jesper Lundegaard Asferg: *Fracture mechanical modeling of reinforced concrete structures*, 2003-2006.

Lars Dick-Nielsen: *Modeling of ECC Materials using Numerical Formulations Based on Plasticity*, 2004-2007.

Bradley Justin Pease: *Modeling of Liquid and Ion Transport Mechanisms in Cracked Reinforced Concrete Structures* 2005-2010, (co-advisor).

Benjamin Riisgaard: *Modelling and Experimental Verification of Reinforced Concrete under Blast Load*, 2005-, (co-advisor).

Jens Henrik Nielsen: *The Properties and Structural Use of Toughened Glass*, 2005-2008.

Jan Skocek: *Fracture Mechanics for Cement Paste and Mortar: Measurement and Modeling*. 2006-2009.

Jens Falkenskov Mougaard: *Modeling of Interacting Crack in Reinforced Concrete Structure*,. 2006 - 2010.

Anders Ole Stubbe Solgaard: *Application of Fiber Reinforced Concrete in Civil Infrastructure*. 2008 -.

Lárus Helgi Lárusson: *Development of flexible concrete joints for deck structures with deteriorated mechanical joints and corrosion damage*. 2008-, (co-advisor).

Alexander Michel: *Nanotechnology for Civil Engineering Structures: Resistance to Reinforcement Corrosion in Concrete Structures*, 2008-, (co-advisor).

Christian Skodborg Hansen: *Shear Strengthening of Concrete Walls, 2008-*.

Fedja Arifovic: *Reinforcing Structures using Adhesively Bonded Composite Materials*.2009-2010.

Jon Spangenberg: *Numerisk modellering af formfyldning ved støbning i selvkompakterende beton* 2009 – (co-advisor)

Oldrich Svec: *Stochastic Modeling of Structural Performance of Steel Fiber Reinforced Concrete Structures.* 2010-

Anna Emile Thybo: *Numerical Modeling of Reinforcement Corrosion in Cracked Concrete*. 2011-

HONORS AND AWARDS
Fabrikant Ulrik Brinch og Hustru Marie Brinchs Legat. February 5, 1988. Awarded as recognition of excellent scientific work. **The Robert L'Hermite Meda**l. November 8, 1991. Awarded by the RILEM Bureau in recognition of distinguished authorship in the field of building materials and structures. **Limprisen**, 1993. Awarded as recognition of promising scientific work.

MEMBERSHIP OF SCIENTIFIC COUNCILS AND COMMITEES
The Industrial PhD Program Committee under the **Danish Agency for Science, Technology and Innovation**. 2007-. **Building Material and Components Expert Panel** under the Swedish Research Council **Formas**. 2007-. **Evaluation Committee, MISTRA**, The foundation for Strategic Environmental Research. 2008- **The Rector's Review Panel** (Technical University of Denmark) 2010-.

RESEARCH AREA
Since January 2006 heading the *Integrated Structures and Materials Design group*. The research group aims at modeling the entire life of structures with particular focus on reinforced concrete structures. Present focus is computational and experimental fracture mechanics of concrete and fiber reinforced concrete as well as structural use of thoughend glass. The ultimate, long term goal is the development of a well calibrated and reliable numerical model which enables service life simulation for reinforced concrete structures covering aspects of production, construction and in-service life.