

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PROF. DR. MICHAEL HAVBRO FABER (-NIELSEN)

ETH ZURICH, MAY 2010

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PERSONAL INFORMATION

Name	FABER (-NIELSEN), MICHAEL HAVBRO
Address	Am Börtli 17, CH-8049 Zurich, Switzerland
Office	Institute of Structural Engineering (IBK) ETH Zurich, HIL E23.3 Wolfgang-Pauli-Str. 15 CH-8093 Zurich
Telephone	+41-44-633 31 17
Fax	+41-44-633 14 22 / +41-44-633 10 64 (IBK)
Email	faber@ibk.baug.ethz.ch
Homepage	www.ibk.ethz.ch/fa
Nationality	Danish
Date of birth	03.07.1961

WORK EXPERIENCE

- Occupation or position held
 - Dates
 - Occupation or position held
 - Dates
 - Occupation or position held
 - Dates
 - Name and address of employer
 - Type of business or sector
 - Main activities and responsibilities
-
- Occupation or position held
 - Dates (from – to)
 - Name and address of employer
 - Type of business or sector
 - Main activities and responsibilities
-
- Occupation or position held
 - Dates
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 - Type of business or sector
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Guest Professor

October 1999

Department of Building Technology and Structural Engineering, University of Aalborg, Denmark
University

Lecturing PhD students on "*Bayesian Regression Analysis*".

Consulting Engineer

1998 – 1999

Det Norske Veritas, Høvik, Norway

Consulting

Specialist in structural reliability and risk based inspection planning.

Guest Professor

April 1998 – July 1998

Dep. of Civil, Surveying and Environmental Engineering, University of Newcastle, Australia
University

Sabbatical research leave funded by the COWI foundation, Denmark and the Faculty of Engineering, University of Newcastle, Australia.

Consulting Engineer

1993 – 1998

COWI, Consulting Engineers and Planners AS, Copenhagen, Denmark

Department of special engineering services

Consulting

Specialist in structural reliability analyses and reassessment.

Director, Software Developer

1990 – 1993

RCP-Denmark ApS Reliability Consulting Computing Programming, Denmark

Software Engineering

Development of a software system IMREL for reliability based inspection and repair scheduling of jacket type offshore structures.

Research Associate

1990 – 1993

Department of Building Technology and Structural Engineering, University of Aalborg, Denmark
University

Danish Science Foundation (STVF): funded project on decision analysis in applied structural engineering.

Consultant (free-lance)

1989 – 1990

RCP-GmbH Reliability Computing Programs, Munich, Germany

Engineering

Design review for the ARIANE-5 booster load introduction structure using advanced assessment methods and reliability analysis.

WORK EXPERIENCE

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 - Dates
- Name and address of employer
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- Main activities and responsibilities

EDUCATION AND TRAINING

- Dates
- Title of qualification awarded
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered

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- Title of qualification awarded
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

AWARDS AND GRANTS

- Dates
- Award
- Name and type of organization providing the Award

Post Doc

1989 – 1990

Institute for Structural Engineering at the "Technische Universität München", Munich, Germany
Research Group of: Prof. Dr.-Ing.-habil. R. Rackwitz

University

Reliability analysis of structures; Inspection and maintenance planning for offshore structures and pressure vessels.

Research Assistant / PhD

1985 – 1989

Department of Building Technology and Structural Engineering, University of Aalborg, Denmark
University

Danish Science Foundation (STVF): funded research project on reliability of structural systems.

1985 – 1989

PhD

Department of Building Technology and Structural Engineering
University of Aalborg, Denmark

Structural Engineering.

1980 – 1985

M.Sc.

Department of Building Technology and Structural Engineering
University of Aalborg, Denmark

Structural Engineering.

DANISH

ENGLISH, GERMAN

GOOD-EXCELLENT

GOOD-EXCELLENT

GOOD-EXCELLENT

April 1998 – July 1998

Personal grant DKR 120'000,- for a sabbatical research leave

COWI Foundation

COWI Consulting Engineers and Planners AS, Copenhagen, Denmark.

ACTIVITIES WITHIN THE INDUSTRY AND THE ACADEMIC SOCIETY

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- **WEF World Economic Forum**, member of Global Agenda Council on Catastrophic Risks, since 2009.
- **JCSS** - Joint Committee on Structural Safety (<http://www.jcss.ethz.ch/>), president since 01.01.2006, reporter since 2001 and board member since 1992.
- **IFED** - International Forum on Engineering Decision Making (<http://www.ifed.ethz.ch/>), founding member in 2004, chair since 01.01.2009.
- **CERRA** - Civil Engineering Risk and Reliability Association, member of the management board since 1999.
- **IABSE** (IVBH) - International Association for Bridge and Structural Engineering, member of working commission "Structural Performance, Safety and Analysis", since 2000.
- **SIA** - Swiss Code Committee, member since 2001.
- **adpc** - Asian Disaster Preparedness Center in Thailand, member of the International Advisory Council (IAC), since 2007.

PARTICIPATION IN EUROPEAN RESEARCH NETWORKS

- **COST** European Cooperation in the field of Scientific and Technical Research.
 - E24**: Reliability of timber structures, working group leader Switzerland, 2001-2005.
 - E53**: Quality control for wood and wood products, member Switzerland.
 - E55**: Modelling of the performance of timber structures, coordination member Switzerland.
 - C26**: Urban Habitat Constructions under Catastrophic Events, leader work group 4 (WG4) and member Switzerland.
 - TU0601**: Robustness of Structures, Chair and member Switzerland.
- Collaboration Project **SafeLand** "Living with landslide risk in Europe: Assessment, effects of global change, and risk management strategies", EU 7th Framework Programme, since 2009.
- EU-Network **Saferelnet**. Safety and reliability of industrial products, systems and structures. Leader of Working Package **WP4**: Integration of Risk and Reliability Formulations, 2001-2008. Task Leader: **T2.3** Bayesian Modelling in Risk Assessment. **T4.1** Integrated Risk Assessment. **T7.1** RBI Framework.
- International EU-Network **Technological Implementation Plan – eTIP**: Platform for all shared-cost RTD projects 5th Saferelnet Framework Program, www.cordis.europa.eu.

PROFESSIONAL SERVICES AT ETH ZURICH, SWITZERLAND

- **MAS** in **Natural Hazards Management** (MAS NATHAZ), Master of Advanced Studies organized by D-BAUG and HazNETH, ETH Zurich, leader since 01.09.2008.
- **Admission Committee** for Master Studies at the Department of Civil, Environmental and Geomatic Engineering, member since 01.10.2009.
- **HazNETH** - Research Network for Natural Hazards at ETH Zurich, chair since 01.10.2009, member since 2004, www.haznet.ethz.ch.
- **CAS** "Risiko und Sicherheit technischer Systeme", member of the general board since 2002.
- **NIDECO** - Network for International Development and Cooperation, steering committee since April 2006, member since 2004, www.nideco.ethz.ch.
- The **ETH Post-Tsunami Initiative**, co-initiator and member since 2005, www.tsunami.ethz.ch.
- **IBK** - Institute of Structural Engineering, director from 01.10.2006 to 30.09.2008.
- **Coordinator** of research & development activities between **D-BAUG** (Department of Civil, Environmental & Geomatic Engineering) and **WSL** (ETH research institution), appointed 2006.
- **ETH-CCES** Competence Center Environment and Sustainability, member of the planning group under the leadership of Prof. Dr. Hannes Flüeler, 2005.

EVALUATION COMMITTEES FOR NEW PROFESSORS

- Professor of *Construction Material* at ETH Zurich, Zurich, Switzerland, 2009-2010.
- *Promotion to Assistant Professor* at the Department of Civil and Environmental Engineering, University of Cyprus, 2009.
- Professor of *Structural Mechanics* at EPFL, Lausanne, Switzerland, 2005-2006.
- Professor of *Glaciology* at ETH Zurich, Zurich, Switzerland, 2001.

ACTIVITIES WITHIN THE INDUSTRY AND THE ACADEMIC SOCIETY

ACADEMIC, SCIENTIFIC AND TECHNICAL COMMITTEES

- Project: **Development of Swedish University of Building Engineering Sciences**, member of the International Advisory Panel, since 2009.
- **ESRA** - Technical Committee on *Offshore Safety*, member since 1992; management board and treasurer in the period 1992-1998.
- **FBH / sia**- Fachverein für Brückenbau und Hochbau, member „Arbeitsgruppe Umgangskultur“ since 2007.
- **fib** Working Party 5.3-1 “Assessment and Residual Service Life Assessment”.
- **fib** Working Party 5.6 “Model Code for Service Life Design of Concrete Structures”.
- Geotechnical Safety Network **GEOSNet**, member of executive board, since 2007.
- **IASSAR-CSMSE** International Association for Structural Safety and Reliability, Committee on Stochastic Methods in Structural Engineering, member of subcommittee SC3: Structural Reliability and Optimization, since 2008.
- **ICASP** - Scientific Committee at the *International Conferences on “Applications of Statistics and Probability in Civil Engineering”*, 4-year conference, since 2003.
- **IFIP WG7.5 Conference on Reliability and Optimization**, Scientific and Technical Committee, Chair since 2010, member since 2003.
- **ISO/TC98/SC2/WG6** - Assessment of existing structures, work group member since 1996.
- **ISO/TC98/SC2/WG11** - General principles on risk assessment for structures, work group member since 2005.
- **JCSS** - Joint Committee on Structural Safety, member of the working party since 1992, Reporter of WP2 Risk Assessment since 2001, development and management of the web-site <http://www.jcss.ethz.ch/>.
- **OMAE** - Scientific Committee “Structures, Safety and Reliability” at the *ASME International Conferences on Offshore Mechanics and Arctic Engineering*, yearly conference, since 2000.
- **SIA 260** - Swiss Code Committee on Actions on Structures, work group member 2001-2004.
- **SIA 269** - Swiss Code Committee on Assessment of existing Structures, work group member since 2005.
- **Swiss Dam Committee** - Schweizerisches Talsperrenkomitee (STK), work group on Risk Assessment, since 2000.

ACADEMIC COMMITTEES FOR INTERNATIONAL CONFERENCES AND WORKSHOPS (2006-2010)

- International Scientific Committee at **ISRERM'2010**, International Symposium on Reliability Engineering & Risk Management, Shanghai, P.R. China, September 23-26, 2010.
- International Scientific Committee at **8th fib International PhD Symposium** in Civil Engineering, TU Denmark, Copenhagen, Denmark, June 20-23, 2010.
- International Scientific Committee at **ICOSSAR2009**, 10th International Conference on Structural Safety and Reliability, Osaka, Japan, September 13-17, 2009.
- Scientific Committee at **NDTCE'09**, International Symposium on Non Destructive Testing in Civil Engineering, Nantes, France, June 30 - July 03, 2009.
- Scientific Committee at the **6th Probabilistic Workshop**, Technical University, Darmstadt, Germany, November 26-27, 2008.
- Scientific Committee at **IWRERM'08**, International Workshop on Reliability Engineering and Risk, Tongji University, Shanghai, China, August 21-23, 2008.
- Technical Advisory Panel at the **4th International ASRANet Colloquium**, Athens, Greece, June 25-27, 2008.
- Scientific Committee at the **Interdisciplinary Workshop on Rockfall Protection**, organized by IBK ETH Zurich, Morschach, Switzerland, June 23-25, 2008.
- Technical Program Committee at **PSAM9**, 9th International Probabilistic Safety Assessment and Management Conference, Hong Kong, China, May 18-23, 2008.

ACTIVITIES WITHIN THE INDUSTRY AND THE ACADEMIC SOCIETY

ACADEMIC COMMITTEES FOR INTERNATIONAL CONFERENCES AND WORKSHOPS (2006-2010)

- Scientific Committee at **MEDACHS'08 1st International Conference** "Construction Heritage in Coastal and Marine Environments", Lisboa, Portugal, January 28-30, 2008.
- Scientific Committee at the **5th Probabilistic Workshop**, Ghent University, Ghent, Belgium, November 28-29, 2007.
- International Advisory Committee at **ISGSR2007**, First International Symposium on Geotechnical Safety & Risk, Shanghai, China, October 18-19, 2007.
- Technical Committee at **ESREL 2007**, Safety & Reliability Conference, Stavanger, Norway, June 25-27, 2007.
- Steering Committee at **LCC5**, 5th International Workshop on "Life-Cycle Cost Analysis and Design of Civil Infrastructure Systems", Seoul, South Korea, October 16-18, 2006.
- Scientific Committee at the **4th Probabilistic Workshop** "Safety and Risk", Berlin, Germany, October 12-13, 2006.
- Scientific Committee at **IABMAS 2006**, 3rd International Conference on Bridge Maintenance, Safety and Management, Porto, Portugal, July 16-19, 2006.
- Technical Advisory Panel at the **3rd International ASRANet Colloquium** "Network for Integrating Structural Analysis, Risk and Reliability", Glasgow, UK, July 10-12, 2006.

INDUSTRY SCIENTIFIC COMMITTEES

- International Advisory Council (IAC) of **adpc** - Asian Disaster Preparedness Center in Thailand, since 2006.
- Technical Position Audit for TNO Building and Construction Research, member of auditing committee, January 2002.
- Specialist Group on Decommissioning of Offshore Installations (TotalFinaElf), member of the group together with Dr. S. Fjeld and Prof. Dr. P. Schiessl, since 2000.
- CRIS – Joint Industry Project on reliability and inspection planning of pressure vessels and pipelines subject to corrosion, managed by Prof. Dr. W. Dover, University College London.

RESEARCH PROJECT APPLICATION REVIEWS

- ARC – Australian Research Council, since 2003.
- DFG – Deutsche Forschungsgemeinschaft, since 2000.
- ESF – European Science Foundation, since 2009.
- FORMAS – The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, since 2004.
- FWF – Austrian Science Fund, since 2004.
- ISF – Israel Science Foundation, since 2007.
- LZA – Latvian Science Council, since 2010.
- QNR – Qatar National Research Fund, since 2008.
- RWTH Aachen: Human Technology Centre (HumTec), since 2008.
- SNF – Swiss National Science Foundation, since 2007.

EDITORIAL AND REVIEW BOARDS

- **Probabilistic Engineering Mechanics**, editorial board since 2006.
- **Structural Safety**, editorial board since 2008.
- **Georisk** Assessment and Management of Risk for Engineered Systems and Geohazards, editorial board since 2007.
- **IJRS International Journal of Reliability and Safety**, editorial board since 2006.
- **International Journal of Engineering under Uncertainty: Hazards, Assessment and Mitigation**, assoc. editor, since 2008.
- **SEI** - Journal of "*Structural Engineering International*", Ed. **IABSE** International Association for Bridge and Structural Engineering, editorial board since 2000.
- Journal of **Computer & Structures**, review board since 2006.
- **Waste Management & Research**, ISWA International Solid Waste Association, review board since 2005.

ACTIVITIES WITHIN THE INDUSTRY AND THE ACADEMIC SOCIETY

INITIATION AND ORGANIZATION OF INTERNATIONAL CONFERENCES AND WORKSHOPS

- Organizer of **ICASP11**, 11th International Conference on “*Applications of Statistics and Probability in Civil Engineering*”, ETH Zurich, Zurich, Switzerland, 01.-04.08.2011, <http://www.icasp11.ethz.ch>.
- Organizer of **IFED** - International Forum on Engineering Decision Making, “**Fifth Forum** – Global Catastrophic Risk Management”, Stoos, Switzerland, 07.-11.12.2010.
- Co-Organizer with Prof. Daniel Straub (TUM) & Prof. Luis Esteva (UNAM) of **IFIP WG 7.5 Working Conference** on “Reliability and Optimization of Structural Systems”, TU Munich, Munich, Germany, 07.-10.04.2010.
- Co-Organizer with Prof. Jun Kanda of **IFED** - International Forum on Engineering Decision Making, “**Fourth Forum** - Long-term Policy Makings for Sustainable Society”, Hakone, Japan, 13.-16.05.2009.
- Co-Organizer with Ass. Prof. Jack W. Baker, Stanford University and **JCSS** of “International Workshop on Structural Robustness, Stanford University, Palo Alto CA, USA, 28.10.2008.
- Organizer of **1st Workshop “Robustness of Structures”** - COST-Action TU0601, ETH Zurich, Zurich, Switzerland, 04.-05.02.2008.
- Co-Organizer with Prof. Mark Stewart of **IFED** - International Forum on Engineering Decision Making, “**Third Forum** – Optimal strategies for disaster and hazard mitigation”, Port Stephens, NSW, Australia, 12.-15.12.2007.
- Organizer (in collaboration with Prof. Marc A. Maes, Prof. Ton Vrouwenvelder) of Technical Session “OS21 Developments in the JCSS” at **ICASP10**, Tokyo, Japan, 31.07.-03.08.2007.
- Organizer (in collaboration with Ass.Prof. Jack W. Baker, Stanford University and JCSS) of **International Workshop on “Risk Acceptance and Risk Communication”**, Stanford University, Palo Alto CA, USA, 26.-27.03.2007.
- Organizer of **International Interdisciplinary Workshop** on “Management of Earthquake Risks”, ETH Zurich, Zurich, Switzerland, 28.-29.08.2006.
- Co-Organizer with Prof. Marc A. Maes of **IFED** - International Forum on Engineering Decision Making, “**Second Forum** - Decision making involving spatially distributed systems”, Lake Louise, Canada, 26.-29.04.2006.
- Organizer (in collaboration with Bureau Veritas, Switzerland) of „**Expertentagung Sicherheit**“ ETH Zurich, Zurich, Switzerland, 10.01.2006.
- Organizer (in collaboration with JCSS and IABSE) of the **International Workshop on “Robustness of Structures”**, Garston, Watford, United Kingdom, 28.-29.11.2005.
- Organizer (in collaboration with AIT, Bangkok) of **Post-Tsunami Workshop** on “Sustainable Management of Natural Hazards in the Region of South-East Asia”, Bangkok, Thailand, 22.-26.08.2005.
- Organizer (in collaboration with Prof. Marc A. Maes) of Session 7: “Decision Making in Engineering”, **ICOSSAR2005**, Rome, Italy, 19.-23.06.2005.
- Session Chair of Technical Session 2-10: “Risk Based Inspections and Maintenance II”, **OMAE2005**, Halkidiki, Greece, 12.-17.06.2005.
- The group “Risk and Safety” organized the platform “Rockfall Simulation” at the **150Jahre ETH Zurich Exhibition** “Welten des Wissens”, Zurich, Switzerland, 22.04.-08.05.2005.
- Organizer of **IFED** International Forum on Engineering Decision, “**First Forum** – Consequence modeling in engineering decision making”, Stoos, Switzerland, 05.-09.12.2004.
- Organizing Committee for **Saferelnet** Workshop on “Integration of Approaches and Methodologies for SRA & QRA in Risk Engineering”, Copenhagen, Denmark, 19.-21.05.2003.
- Organizer (in collaboration with EPFL) of the joint event: **3rd International Workshop LCC03/IABMAS, fib WG 5.3-1, WG 5.6 and JCSS**, Lausanne, Switzerland, 24.-26.03.2003.
- Organizer of **2nd Saferelnet General Meeting**, Zurich, Switzerland, 16.-18.10.2002.
- Organizer of **International COST E24 Workshop** on “Reliability of Timber Structures”, Zurich, Switzerland, 10.-11.10.2002.
- Organizer of **International Workshop** on “Reliability Based Code Calibration”, Zurich, Switzerland, 21.-22.03.2002.
- Organizer of **International Workshop** on “Reliability and Risk Based Inspection and Maintenance Planning”, Zurich, Switzerland, 14.-15.12.2000.

RESEARCH AND ADVISOR ACTIVITIES

1) CHAIR "RISK AND SAFETY" AT THE INSTITUTE OF STRUCTURAL ENGINEERING IBK ,ETH ZURICH, SWITZERLAND

	Name	Year	Position
SCIENTISTS	Annett Anders	Since 2009	Scientific assistant, PhD student
	Gianluca De Sanctis	Since 2009	Scientific assistant, PhD student
	Markus Deublein	Since 2007	Scientific assistant, PhD student
	Gerhard Fink	Since 2009	Scientific assistant, PhD student
	Mathias Graf	Since 2007	Scientific assistant, PhD student
	Dr. Jochen Köhler	Since 2001	Scientific employee, PhD (2001-2005)
	Katharina Krämer	Since 2008	Scientific assistant, PhD student
	Dr. Nebosja Mojsilovic	Since 2006	Scientific employee
	Harikrishna Narasimhan	Since 2007	Scientific assistant, PhD student
	Dr. Kazuyoshi Nishijima	Since 2004	Scientific employee, PhD (2004-2009)
	Jianjun QIN	Since 2006	Scientific assistant, PhD student
	Eva Sabiote	Since 2006	Scientific assistant, PhD student
	Dr. Matthias Schubert	Since 2004	Scientific employee, PhD (2004-2009)
	Sebastian Thöns	Since 2007	External PhD student (BAM, Berlin)
	Shuoyun ZHANG	Since 2009	External PhD student (China)
	Zhi-jun ZHANG	Since 2010	External PhD student (China)
	ADMINISTRATION, IT	Patricia Meile	Since 2004
Roberto Pascolo		Since 2004	IT-specialist
Annette Walzer		Since 2001	Administration (Teaching)
Palmira Zaniboni		Since 2008	Administration (MAS)
ALUMNI	Dr. Jack W. Baker	2005-2006	Scientific employee / Post-Doc
	Dr. Yahya Y. Bayraktarli	2002-2008	Finalization PhD in December 2009
	Dr. Oliver Kübler	2000-2005	PhD
	Dr. Vasiliki Malioka	2001-2008	Finalization PhD in April 2009
	Dr. Daniel Straub	2000-2005	PhD (2000-2004), Post-Doc (2005)
Dr. Jens P. Ulfkjaer	2004-2006	Scientific employee	

2) RECENT ADVISOR ACTIVITIES

Activity	Year	Level
Supervisor and Co-Advisor: PhD projects, ETH Zurich.	Since 2000	PhD
Co-Advisor to PhD projects at ICOM, EPFL Lausanne, Switzerland.	Since 2003	PhD
Advisor and Co-Advisor to Master and Bachelor projects, ETH Zurich.	Since 2001	Master / Bachelor, Civil-, Environmental- and Geomatic Engineering and Planning
External Supervisor at DTU, Lyngby, Denmark.	Since 2000	M.Sc.
Advisor to final thesis, ETH Zurich.	Since 2000	Students of "Risk and Safety" continuing education

3) EXTERNAL REFEREE FOR PHD PROJECTS

University	Year
Aalborg University, Denmark	2001
EPFL Lausanne, Switzerland	2001, 2005 and 2006
Technical University Munich, Germany	2006 and 2009
Technical University Delft, The Netherlands	2003 and 2007
University of Newcastle, Australia	2003 and 2005

RECENT TEACHING ACTIVITIES AT ETH ZURICH, SWITZERLAND

	Name	Year	Level
1) BASIC STUDIES	Statistics and Probability Theory (lectures and exercises).	Spring 10	Bachelor Studies in Civil-, Environmental- and Geomatic Engineering and Planning, 2 nd Semester.
	Risk and Safety in Civil Engineering (lectures).	Fall 2010	Master Studies in Civil-, Environmental- and Geomatic Engineering and Planning, 7 th Semester.
2) PHD STUDIES	Aspects of integral risk management in engineering.	Fall 2010	PhD-Seminar, general course in Civil Engineering.
	Bayesian probabilistic networks in engineering.	Fall 2009	PhD-Seminar, in collaboration with Prof. Dr. Marc A. Maes, Dr. K. Nishijima.
3) CONTINUING EDUCATION	<u>Modules:</u> Statistics and Probability Risk Assessment Consequence Modeling Case Study	2009-2011	MAS ETH Zurich in "Natural Hazards Management": September 2009 – August 2011
	<u>Modules:</u> G1: Methoden der systemorientierten Risikoanalyse. Modul V3: Sicherheit in der Konstruktion.	2008-2010	CAS ETH Zurich "Risiko und Sicherheit technischer Systeme": G1: September 17-19, 2008 October 01-03, 2008. V3: May 13-15 and May 28-29, 2009.

INVITED PRESENTATIONS, LECTURES AND COURSES

- 2011
 - Keynote lecture on *Probabilistic modeling of infrastructure performance and socio-economical optimization*, Royal Society discussion meeting, London, United Kingdom, to be held in 2011.
- 2010
 - Invited Plenary Lecture on *Risk assessment and earthquake risk management*, ISRERM'2010, Shanghai, China, 25.09.2010
 - Invited lecture on *Risk assessment and earthquake risk management*, Internationales Graduiertenkolleg 802, Universität Braunschweig, Braunschweig, Germany, 28.06.2010.
 - Invited lecture on *Risk Assessment of Systems*, Department of Structural Engineering, Magnel Lab for Concrete Research, University Ghent, Ghent, Belgium, 30.03.2010.
 - Invited presentation on *Application of Risk and Safety for Sustainable Developments in Civil Engineering*, Seminar organized by Dr. Jens-Peder Ulfkjaer IHA, Aarhus School of Engineering at ETH Zurich, Zurich, Switzerland, 22.03.2010.

INVITED PRESENTATIONS, LECTURES AND COURSES

2009

- Invited lecture on *Resilience and Robustness of Structures*, UNESCO/COST C22 Urban Flood Management Conference, Paris, France, 26.11.2009.
- Invited lecture on *Socio Economical Preference Conform Safety Regulation*, International Symposium on Risk and Reliability Applications on Engineering Planning and Design, Engineering School, UAEM, Toluca, Mexico, 09.11.2009.
- Invited lecture on *HazNeth and risk research*, Interdisciplinary CCSS Seminar on Modeling Complex Socio-Economic Systems and Crises, ETH Zurich, Zurich, Switzerland, 29.09.2009.
- Keynote-Lecture on *Risk informed decision making concerning engineered facilities*, SEDUREC 2009 International Symposium on Safety and Durability of Materials and Constructions, Barcelona, Spain, 27.02.2009.
- Invited lecture on *Risk and Reliability Analysis for Integrity Management of Offshore Facilities*, Faculty of Engineering, University of Genoa, Genoa, Italy, 14.01.2009.
- Invited lecture on *Risk and Reliability in Civil Engineering*, Department of Structural Mechanics, University of Pavia, Pavia, Italy, 13.01.2009.

2008

- Guest lectures on *Application of risk and safety for sustainable developments in civil engineering*, Aalborg University, Aalborg, Denmark, 12.12.2008.
- Presentation on *Risk assessment on the roadway system*, IVT-Seminar Gefährdete Verkehrsnetze, ETH Zurich, Zurich, Switzerland, 04.12.2008.
- Invited lecture on *Management of structural risks*, advanced course in "Risk management in civil engineering", LNEC, Lisbon, Portugal, 20.11.2008.
- Invited lecture on *RBI for floating facilities (FPSO/FSO)*, American Bureau of Shipping Technology, Houston, Texas, USA, 17.11.2008.
- Keynote lecture on *Thesen zur Rolle der Umgangskultur*, FBH/SIA Herbsttagung "Umgangskultur im Bauwesen - ein Tabu wird zum Thema", Zurich, Switzerland, 12.11.2008.
- Keynote lecture on *Advances in the evaluation of robustness of structures*, COST C26 International Symposium, University of Malta, Valetta, Malta, 23.10.2008.
- Keynote lecture on *Risk based approach to the management of structural robustness*, IWRERM08 - International Workshop on Reliability Engineering and Risk Management, Nagoya Institute of Technology at Tongji University, Shanghai, China, 21.08.2008.
- Invited lecture on *Optimal bridge maintenance with Bayesian Networks*, Course-Workshop on "Optimal Bridge Maintenance based on Risk and Reliability", Engineering School, UAEM, Toluca, Mexico, 12.08.2008.
- Invited presentation on *Assessment and Management of Risk in Public Infrastructure*, Workshop on "Performance and Management of Core Public Infrastructure", NRC National Research Council of Canada, Ottawa, Canada, 08.07.2008.
- Invited guest presentation on *The Joint Committee on Structural Safety, fib-Meeting* Technical Council, Amsterdam, NL, 17.05.2008.
- Invited presentation on *Decision Making on Sustainable Life Safety*, Tsinghua University, Beijing, China, 24.04.2008.

2007

- Invited lecture on *Large Scale Risk Management Using Real Time Information*, Expert Symposium "Climate Change: Modelling, Impacts and Adaptations", National University of Singapore, Singapore, 18.12.2007.
- Presentation on *Beurteilung von Restrisiken und Kriterien zur Festlegung akzeptierter Risiken in Folge aussergewöhnlicher Einwirkungen bei Kunstbauten*, 4. ASTRA/FBH Tagung "Neues aus der Brückenforschung", Bern, Switzerland, 20.11.2007.
- Keynote lecture on *Recent developments in the management of risks due to large scale natural hazards*, SMIS - XVI Mexican National Conference on Earthquake Engineering, Ixtapa, Guerrero, Mexico, 03.11.2007.
- Keynote lecture on *Assessing and Managing Risks due to Natural Hazards*, ISGSR2007, First International Symposium on Geotechnical Safety & Risk, Shanghai, China, 19.10.2007.
- Keynote lecture on *Recent Advances in Risk Assessment of Engineered Facilities*, CERUP International Conference "Risk Management in Production Activities", Porto, Portugal, 10.10.2007.

INVITED PRESENTATIONS, LECTURES AND COURSES

2007

- Keynote lecture on *Reliability Assessment of Structures*, COST E55 Opening Workshop, Graz University of Technology, Graz, Austria, 14.05.2007.
- Richardson lecture on *Applied Engineering Decision Analysis*, University of Colorado at Boulder, Boulder, USA, 16.03.2007.
- Presentation on *Recent Developments in Large Scale Risk Assessment*, Tsinghua University, Beijing, China, 12.01.2007.

2006

- Course on *Risk Based Decision Making*, Norwegian Road Directorate, Stavem, Norway, 28.11.2006.
- Presentation on *Temporal and Spatial Probabilistic Engineering Modeling*, The Rackwitz Symposium – a Milestone in Structural Reliability, TUM, Munich, Germany, 24.11.2006.
- Presentation on *Methods of Structural Reliability for Engineering Decision Making*, ACI Fall Convention, Denver, USA, 05.11.2006.
- Presentation on *Risikoanalyse zur gesellschaftlichen Entscheidungsfindung*, Herbsttagung SBGf Schweizerische Gesellschaft für Boden- und Felschenmechanik, Lucerne, Switzerland, 03.11.2006.
- Lectures on *How safe is safe enough*, Tsinghua University, Beijing, China, 23.10.2006.
- Lectures on *Methods of Risks and Reliability in Civil Engineering, Decision Making for Society, Risk based Planning and integrated Management, Assessment of Structural Robustness and Basics of Bayesian Decision Analysis*, HARBIN Institute of Technology, Heilongjiang, China, 20. and 21.10.2006.
- Presentation on *New Directions in Risk Assessment in Civil Engineering*, CRR Centre for Risk Analysis and Risk Assessment, University of Technology, Lulea, Sweden, 29.09.2006.
- Keynote lecture on *Robustness of Structures* at Workshop "Robust Structures", CBI Swedish Cement and Concrete Research Institute, Stockholm, Sweden, 28.09.2006.
- Keynote Speaker on *Construction Safety & Health in the Framework of Civil Engineering Risk Assessment*, CIB W99 - International Conference on Global Unity for Safety & Health in Construction, Beijing, China, 29.06.2006.
- Presentations on *Wie sicher ist sicher genug?* Senioren-Universität in Zurich and Winterthur, Switzerland, 23.05. and 14.06.2006.
- Presentation on *Spatial and Temporal Modeling of Degradation of Concrete in Maintenance Management*, COWI, Lyngby-Copenhagen, Denmark, 17.05.2006.
- Lecture on "On Applied Decision Making for Society", Tsinghua University, Beijing, China, 30.03.2006.
- Presentation on *Reliability and Risks in Construction*, SAFERELNET Seminar "Reliability and Risk in Civil Infrastructure, Klokner Institute CTU, Prague, Czech Republic, 13.02.2006.

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