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Short bibliography Prof. Dr. Michael H. FABER

Michael Havbro Faber has been working at the Institute of Structural Engineering at ETH-Zürich as a professor since April 2000 and in June 2004 he received his tenure. He was born in 1961 and completed his MSc in 1985 as a structural engineer specialized in offshore structural engineering. In 1989 he received his PhD in structural reliability theory from the Institute of Structural Engineering at Aalborg University, Denmark.

Prior to his employment at ETH-Zürich he has been active as an engineering consultant with COWI in Denmark and DNV in Norway but also held positions at the Technical University of Munich, Germany, Aalborg University in Denmark, the Danish Technical University in Lyngby and the University of Newcastle, Australia.

Presently he is responsible for research and teaching activities in the area of risk and safety in civil, environmental and geomatic engineering at ETH-Zürich. Bayesian decision theoretical approaches to risk based decision making and structural reliability analysis play a central role in his research.

Michael H. Faber's main research activities have been centered around time variant reliability analysis, Bayesian decision analysis, reliability based structural design and assessment, probabilistic modeling of fatigue crack growth, probabilistic modeling of corrosion of concrete structures, risk based inspection and maintenance planning, modeling of preferences and consequences in decision making, generic approaches in risk assessment, large scale risk assessment, earthquake risk management, typhoon loss estimation and issues relating to sustainability. He has an extensive practical experience in the development and implementation of theories and methods of statistics and probabilistic structural analysis for the purpose of load analysis, structural design, assessment of existing structures and risk based inspection and maintenance planning. A significant part of his practical experience originates in projects concerning bridges, cable structures, offshore installations, ships and aeronautical structures.

During his career Michael H. Faber has been actively involved in several international committees including the Joint Committee on Structural Safety where he presently is acting as president, the International Forum on Engineering Decision Making (IFED) for which he was the founding president, the European Safety and Reliability Association (ESRA) where he was a member of the general board in the period from 1993-1998 and is currently active in the working group on offshore safety, the ISO committees on Assessment of Existing Structures as well as Risk Assessment of Structures, the international association CERRA: Civil Engineering Reliability and Risk Analysis, where he has been a board member since 1999.