Webinar Series

Risk, resilience and sustainability informed integrity management of infrastructure systems

General aspects of risk, resilience and sustainability of infrastructure systems

29th August, 2022
15:00 – 16:00 CET

Lecture outline:

In the present lecture I will address generic aspects of how to decide on development, integrity management and renewal of societal infrastructure systems. This includes a presentation of a framework for decision making subject to uncertainty, modelling of systems risk, modelling and assessment of resilience of systems, and how we may relate decisions on infrastructure systems to CO2 emissions as well as to other critical impositions affecting sustainability. Finally, I will shortly introduce the lectures of the webinar and how they relate to the presented framework.



ZOOM LINK

https://aaudk.zoom.us/j/62348138248

About the speaker:

Michael Havbro Faber is Professor at the Department of the Built Environment at Aalborg University, Denmark, leader of structural risks and safety at the Danish Hydrocarbon Research and Technology Center (DHRTC) and Head of Danish Centre for Risk and Safety Management (RISK). From 2011-2015 he was head of the Department of Civil Engineering at DTU, Denmark and from 2000-2011, tenured professor at ETH, Zurich, Switzerland. His research interests are directed on applied decision theory in engineering. Application areas include offshore, civil, naval and aeronautical engineering, global risks as well as management of natural hazards. His industrial experience mostly originates from COWI, Denmark, Det Norske Veritas, Norway, Matrisk GmbH, Switzerland and North Consulting, Denmark. He has taken leadership in several international committees, including the Joint Committee on Structural Safety (JCSS), Joint Committee on the GLOBE Consensus (JCGC) and the WEF; Global Expert Network on Risk and Resilience. He is a Research Fellow of the Global Risk Forum in Davos, a member of the Danish Council of Independent Research and is member of the Danish Academy of Technical Sciences (ATV). In 2019, he received the C. Allin Cornell Award for his academic contributions to the fields of safety, resilience and sustainability in pursuit of enhancing societal decision making.

JCSS Joint Committee on Structural Safety

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