

3RD WORKSHOP
TRAINING AND ASSESSMENT
Need for paradigm shift

4th of May, 2016

University College of Southeast Norway, Research Park, Campus Vestfold, Norway

Industrial and technological revolution as witnessed in recent decades has demonstrated increased automation and engineering advancement - the ways humans interact with their environment have dramatically changed when compared with three decades before. New technologies, automated devices, and computerized systems have improved the overall productivity and efficiency of systems; nevertheless, have also brought new challenges to individuals as well as to teams. Unpredictable dynamics of economy, organizations, and complex systems calls for a *paradigm shift* in both training and assessment of modern systems. Maritime operations – which play a significant role in the Norwegian economy – involve complex challenges faced by the seafarers. The operations in maritime and offshore process industries require training facilities aimed at delivering risk-free training environments as well as repeatable safe training scenarios. There is a need for cooperation and mutual understanding between the academia/researchers and practitioners. This workshop is aimed at resolving the foregoing challenge. It is expected that discussions on these topics, during the workshop, will lead to possible solutions to existing challenges and highlight recent challenges in relevant domains.

The expected outcomes are (but not limited to):

- The need of new approaches towards Training and Assessment
- Cooperation between academia/researchers and practitioners/industries
- Lectures by leading experts in order to gain insight into current solutions
 - New Paradigms in Training Methods
 - Challenges and solutions in evaluation of Training
 - Gap between current training practices and tasks handled by seafarers/operators
- Development of new programs and projects aiming at safer/efficient maritime operations
- Collaboration and cooperation among participants

The experts are invited from prestigious institutions (Politecnico di Milano from Italy, World Maritime University from Sweden, Kongsberg Maritime from Norway, Liverpool John Moores University from United Kingdom and Department of Maritime Technology, Management and Innovation, HSN). Representatives from Aalesund University College, University of Oslo and other institutions, as well as from industries (Simsea, BW Gass and Hucon Global) will enable a long-term collaboration on relevant topics. The theme of the workshops falls under the rubric of the MARKOM 2020.

Participation is free of charge. Looking forward to meeting you in May.

Salman Nazir
Associate professor
Head of Training and Assessment Research Group (TARG)
University College of Southeast, Norway

Location for the workshop: [Research Park \(behind the main building\), Bakkenteigen, Campus Vestfold](#)

Please forward your registration (by email) for workshop before 01 of May to: sanda.knutson@hbv.no

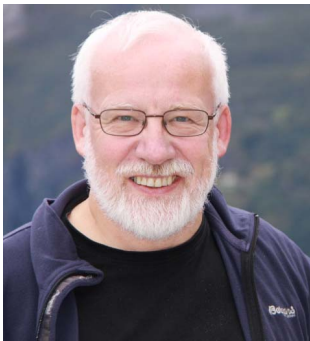
Speakers' Profile



Davide Manca

Professor of Process Systems Engineering
Politecnico di Milano
Italy

Davide Manca graduated and received the PhD in Chemical Engineering at Politecnico di Milano (POLIMI). He is a professor of Process Systems Engineering and head of the PSE-Lab at POLIMI. He is coauthor of more than 200 peer-reviewed publications on international journals and conferences with a few chapters on books. Design, simulation, control, optimization, and assessment are the main features that use computer algorithms and methods to produce the quantification of the phenomenon, process, and plant under study.



Jon Ivar Håvold

Professor in Maritime Human Factors
Aalesund University College
Norway

Jon Ivar Håvold is a professor in maritime human factors, work and organizational psychology at the Norwegian University of Science and Technology (NTNU), Aalesund. He has a background in chemical engineering, business management and a doctorate in engineering. His main research focus include maritime safety, safety culture, team training and stress. Apart from the academia, he also have professional work experiences from different industries such as iron and steel, telecommunications, insurance and education as well as held several board positions.

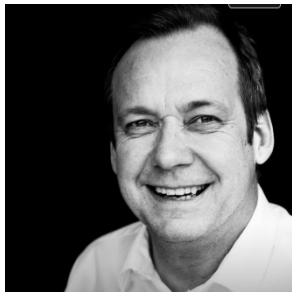


Gesa Praetorius

Research Associate

World Maritime University
Sweden

Dr Gesa Praetorius is currently working as a Research Associate within the Maritime Risk and System Safety (MaRiSa) Research Group at the World Maritime University (Malmö, Sweden). She holds an M.Sc degree in Cognitive Science (Linköping University) and a Ph.D in Shipping Technology (Chalmers University of Technology). Gesa is a recognized expert in maritime human factors and resilience engineering. In her research she focuses on understanding and modelling the complex interactions between human operators, technical equipment and organizational settings. She is specifically interested in how safety and resilience in maritime operations can be promoted through end-user involvement in the design of technology and organizations.



Stig-Einar Wiggen

Research Head

Kongsberg Maritime AS
Norway

Stig-Einar Wiggen has a military education which encompasses Norwegian Army Jr. Officer school, Norwegian Naval Academy, Norwegian and NATO Staff Collages. He has served as both Captain and Squadron commander with the Royal Norwegian Navy and has also served with the Royal Dutch Navy. Since 1997, Stig has held several posts with Ship Modelling & Simulation Centre (SMSC). He was the CEO from 2003 until January 2016 when the company was acquired by Kongsberg Maritime. He is currently employed as Research Head with Kongsberg Maritime.



Daniel Quintana

Postdoctoral Research Fellow

Norment, KG Jebsen Centre for Psychosis Research, Oslo
University Hospital & Institute of Clinical Medicine
University of Oslo, Norway

Daniel Quintana is a postdoctoral Research Fellow at the University of Oslo. He received his PhD in Psychology from the University of Sydney, for which he was awarded the H. Tasman Lovell Medallion for the best psychology PhD thesis in 2013. His work is focused on psychophysiology and neuropsychopharmacology research. His current research topics are: heart rate variability in psychological processes and intranasal oxytocin treatment for severe mental illnesses. He is also an Associate Editor for BMC Psychology.



Barbara Kelly

Programme Leader
Liverpool John Moores University
United Kingdom

Barbara Kelly has over thirty years' experience in the Maritime Industry. A career at sea that led to a Master Mariner's Certificate and experience in Container and Ro-Ro shipping. Lecturing experience in both the UK and the Middle East in the Maritime and Oil sectors. Development, management and teaching on seafaring programs in the Higher Education sector in the UK and in collaborations in India and Malaysia. Research has been focused on cadet training, and she is currently studying for a PhD in recruitment and retention in the UK Merchant Navy. Barbara is involved in the ongoing developing of cadet training programs in the UK through their training board and the International Association of Maritime Institutions.



Bjarte Knappen Røed

Adjunct Associate Professor
Department of Maritime Technology and Innovation (MTDI)
University College of Southeast Norway
Norway

Dr. Bjarte Røed is Adjunct Associate Professor at the Department of Maritime Technology and Innovation at the University College of Southeast Norway. He is also the Head of Risk Consulting and Engineering at Aqualis Offshore AS. Dr. Røed has extensive experience in human factors integration and risk analyses in the energy industry and within marine operations. Currently he is leading the work on identification of safety-critical tasks and management of operational barriers in the engineering of the Johan Sverdrup oil-drilling platform. Dr. Røed has twenty years' experience from the Norwegian Navy as ship navigator, commanding officer and navigation instructor. Dr. Røed holds a Ph.D in human factors and a M.Sc in nautical engineering. He is a member of the Training and Assessment Research Group (TARG) at the University College of Southeast Norway.



Dr. Linda J. Sørensen, C.ErgHF, MIEHF

Organizational Development and Human Factors Specialist
BW Fleet Management, BW Gas AS
Norway

Linda J. Sørensen, PhD, is a human factors professional with BW Fleet Management, working on operational HF and safety issues as well as organizational development to set industry safety leadership standards. Linda has 8 years human factors experience spanning research at HBV (Research Fellow) and University of Southampton (Research Assistant) as well as practitioner experience from the National Physical Laboratory, Perseus GST and Lloyd's Register Consulting. Linda achieved her PhD at the University of Southampton (2013) on "Distributed Situation Awareness: Experimental Studies into Teamwork" and has published a range of papers on topics such as command and control, team performance and distributed situation awareness. Linda remains keenly interested in problems faced by individuals and teams in complex operational environments.



Jon Lars Syversen

Sr. Psychologist Hucon Global AS
Director SIAP Norway AS
Norway

Jon Lars graduated as a Clinical Psychologist, but has worked as a consultant within selection, leadership assessment and training for 30 years. His main area has been aviation; airline companies, helicopter operators and flying training schools, but he has also worked within the maritime and offshore industry. His focus has been on performance and safety in risk sensitive team operations. During the last years, he has worked in Hucon Global with a tool integrating assessment of technical and non-technical skills. The tool is applied in aviation, by maritime training centers, and it is now being introduced in the medical sector in US and Norway.



Sturle Danielsen Tvedt

Human Factors Specialist
Simsea
Norway

Sturle is a PhD in Organizational Psychology and COO of Human behavior at Simsea based in Haugesund, Norway. He has developed the current simsea model of Resource management training and has several years experience as an instructor. He is also COO of Simsea Test centre, which examine and certify Specialized Operators in Dynamic Positioning under the DNV-GL regime. His research focuses on evaluation of intervention and training and assessment of non-technical skills.



Salman Nazir

Associate professor
Department of Maritime Technology and Innovation (MTDI)
University College of Southeast Norway
Norway

Salman Nazir is an Associate Professor at University College of Southeast, Norway. He received his Masters and PhD in Chemical Engineering (focus on System Engineering and Human Factors) from Hanyang University, South Korea, and Politecnico di Milano, Italy, respectively. He is mainly focused on Human Factors research. His current research topics are: Effective training methods, performance assessment, training transferability and evaluation. He was awarded with Cum Laude (outstanding honor) with the title of his PhD. He is a co-chair of affiliated conference of Applied Human Factors and Ergonomics (AHFE) and also leading the research group: Training and Assessment Research Group (TARG).