



**HUMAN-CENTRED DESIGN (HCD)
SUB-WORKING GROUP INSIGHTS
WEBINAR 2026**

AGENDA

HUMAN-CENTRED DESIGN (HCD) SUB-WORKING GROUP INSIGHTS WEBINAR 2026

INTRODUCTION

11:30 - 11:36

Dr Jonathan Earthy AMIMarEST
Human Factors Coordinator, Technical Policy Group
Lloyd's Register

PUTTING PEOPLE FIRST: OCEAN PROJECT FINDINGS ON MARITIME SYSTEM DESIGN

11:36 - 11:50

Dr Erik Petersen
Senior Researcher
Western Norway University of Applied Sciences

VOICES FROM THE SEA: HOW SEAFARER FEEDBACK SHAPES HUMAN-CENTRED DESIGN

11:50-12:02

Aly Elsayed
Senior Technical Manager
The Nautical Institute

HUMAN CENTRED DESIGN OF ENGINE CONTROL ROOM ALARM MANAGEMENT (ECRAM) SYSTEMS & THE SYSTEM-OF SYSTEMS CHALLENGE.

12:02 - 12:14

Dr Bernard Twomey PhD, BEng(Hons), CEng, FIMarEST, FIET,
IMechE
Regulatory Development, Kongsberg Maritime

ORGANISATIONAL DYNAMICS OF HUMAN CENTERED DESIGN: KEY FINDINGS AND HOW YOU CAN GET INVOLVED

12:14 - 12:20

Dhwani Oakley
Rules Ergonomist
Lloyd's Register

Q&A

12:20- 12:27

Dr Jonathan Earthy AMIMarEST
Human Factors Coordinator, Technical Policy Group
Lloyd's Register

CLOSING REMARKS

12:27 - 12:30

Dr Jonathan Earthy AMIMarEST
Human Factors Coordinator, Technical Policy Group
Lloyd's Register

SPEAKERS

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Dr Jonathan Earthy

Human Factors Coordinator, Technical Policy Group, Lloyd's Register

Dr Earthy has over 30 years' experience at Lloyd's Register and is the technical authority for human factors in LR Marine & Offshore, specialising in human-centred design and ergonomics. He is a leading contributor to international research, standards, and IMO-related work, with academic, editorial, and industry leadership roles.



Dr Bernard Twomey PhD, BEng(Hons), CEng, FIMarEST, FIET, IMechE

Regulatory Development, Kongsberg Maritime

Twomey is a former Merchant Navy officer with over 12 years at sea and a PhD in Assurance of Complex Systems from the University of York. His career spans classification, manufacturing and maritime technology, including senior roles at Lloyd's Register, Rolls-Royce Marine and Kongsberg Maritime, where he specialises in regulatory development and maritime autonomy. He holds multiple academic fellowships and serves in advisory roles to leading classification societies and the Danish Maritime Authority at the IMO.



Dr Erik Styhr Petersen, AFNI

Senior Researcher, Western Norway University of Applied Sciences

Petersen is a Naval Architect with a background in ship design and stability who later specialised in maritime research, human factors, and navigation systems. He is a Senior Researcher in Norway, where he coordinates international research projects including OCEAN and CUED.



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Captain Aly Elsayed AFNI

Senior Technical Manager, The Nautical Institute

He is a seafarer and ex-Master Mariner with over 25 years' experience in vessel operations, maritime training, and human-centred research. He is Senior Technical Manager for Research and Development at The Nautical Institute, representing the Institute at IMO and leading international research initiatives.



Dhwani Oakley

Rules Ergonomist, Lloyd's Register

Oakley is an early career professional specialising in maritime human factors, ergonomics, and human-centred design. She is a doctoral researcher at the University of Southampton and a Rules Ergonomist at Lloyd's Register, where she develops human factors requirements, advises industry stakeholders, and contributes to research and IMO-related initiatives.

THANK YOU FOR ATTENDING!