

# eMIR Industry Days

## 26th-27th APRIL 2018

Hafen-Klub Hamburg | Landungsbrücken



### eMIR Industry Days

Bringing together European drivers from industry, research and public authorities to discuss new and future maritime systems.

This event covers current and future issues for system engineering, safety and security, verification and validation, high automation, artificial intelligence and technology development platforms.

### Programme

#### Day 1, 26th April 2018: Innovation Day

- > 11:30 – 12:00: Welcome Reception
- > 12:00 – 12:30: Lunch
- > 12:30 – 12:40: Welcome (Axel Hahn, OFFIS)
- > 12:40 – 12:50: Welcome (Holger Pfeifer, FORTISS)
- > 12:50 – 13:00: Welcome (Thomas Rüggeberg, German Federal Ministry of Economy and Energy)
- Session: Future of Navigation**
- > 13:00 – 13:20: Shore based Bridge (Ståle Høylandskjær, NAVTOR)
- > 13:20 – 13:40: Elbe 4.0 (Jan Ninnemann, Hanseatic Transport Consultancy)
- > 13:40 – 14:00: Future Piloting (Ben Lodemann, Pilot Brotherhood Elbe)
- Session: Maritime Security and Cyber Security**
- > 14:00 – 14:20: Maritime Identity Management (Rasmus Madsen Jensen, DMA)
- > 14:20 – 14:40: Cyber Security in Ship Bridge Systems (Fabian Gaude, Raytheon Anschütz)
- > 14:40 – 15:00: Sensor Fusion to ensure robust and reliable traffic situation awareness (Frank Heymann, German Aerospace Center)
- > 15:00 – 15:30: Coffee Break
- Session: Integration of Systems and Services**
- > 15:30 – 15:50: Maritime Connectivity Platform / SeaSWIM (Per Setterberg, Swedish Maritime Administration)
- > 15:50 – 16:10: How Marine Pilots can benefit from Maritime Connectivity Platform (Friedhelm Moggert-Kägeler / Christina Ulrich, SevenCs)
- > 16:10 – 16:30: System Integration from a Shipbuilder's Perspective (Wolfgang Franzelius, Fassmer)
- > 16:30 – 17:00: Refreshment – Change to BSH (Academic Track)

**Industry Track (Hafen-Klub):**

Development of Maritime CPSoS

- > 17:05 – 17:25: Certification of complex maritime systems (Christian Cabos / Wiegand Grafe, DNV GL,)
- > 17:25 – 17:45: Testing of complex systems (Claus-Henning Friederichs / Achim Przymusinski, AVL)
- > 17:45 – 18:15: e-Maritime Integrated Reference Platform (André Bolles, OFFIS)
- > 18:15 – 18:30: Closing and Recap (Holger Klindt, ATLAS)

**Academic Track (BSH Room 601 / 602):**

Safe Automation of Maritime Systems

- > 17:00 – 17:20: Verification and Validation of highly automated systems (Marius Brinkmann, Uni Oldenburg)
- > 17:20 – 17:40: Scenario based Verification (Sebastian Vander Maelen, OFFIS)
- > 17:40 – 18:00: Machine Learning in the maritime domain (Stefan Oehmcke, Uni Oldenburg)
- > 18:00 – 18:20: Spation-temporal Moving Object Data Stream Processing (Tobias Brandt, Uni Oldenburg)
- > 18:20 – 18:40: A domain-specific architecture framework for socio-technical maritime systems of systems (Benjamin Weinert, Uni Oldenburg)

- > 19:00: Reception and Opening of the eMaritime Integrated Reference Platform at BSH
  - > Demonstration of cyber-security simulation (Christian Hemminghaus, FKIE)
  - > Demonstration of V&V-Simulator and Ship Handling Simulator (BSH, OFFIS)

**Day 2, 27th April 2018: Workshop Day**

- > 08:00 – 08:30: Welcome Reception
- > 08:30 – 08:45: Recap Day 1, Introduction of Workshops (Michael Siegel, OFFIS)
- > 08:45 – 10:30: Roadmap Maritime System Engineering
- > 10:30 – 10:50: Coffee Break
- > 10:50 – 12:00: Workshop: Requirements on eMIR
- > 12:00 – 12:15: Summary (Axel Hahn, OFFIS)
- > 12:15 – 13:00: Closing and Lunch

Organized by:

