14TH IALA Symposium
Enhanced Maritime Safety and Efficiency by Connectivity
12 - 16 April 2021 | Rotterdam | Netherlands

IALA

Ministry of Infrastructure and Water Management

Programme Overview

Day 1 — Monday - 12 April

Live broadcast: 11.00 - 14.00 UTC
Moderator | Ms Pauline de Wilde

11.00 • Opening session

Household/safety briefing

Welcome speech by *Mrs Brigit Gijsbers, Deputy Director-General for Aviation and Maritime Affairs | Director Maritime Affairs | Member of the IALA Council for the Netherlands*

Welcome speech by *Mrs Cora van Nieuwenhuizen, NL Minister of Infrastructure and Water Management*

Welcome speech by *Mr Arjan van Gils, Vice Mayor for Port, Finance, Organization and Large Projects of Rotterdam*

Welcome speech by *Mr Francis Zachariae, IALA Secretary-General*

Keynote speech by *Mr Mathias Jonas, IHO Secretary-General*

Coffee/Tea break

12.00 • Session 0,5 – Introductory session by VTS and ENAV Committee Chairs (setting the scene)
Monica Sundklev and Hideki Noguchi

12.15 • Session 1 - Opportunities in a digital world
Chair: Hideki Noguchi

Session introduction

Future VTS' - Embracing opportunities in a digital world | *Neil TRAINOR, AMSA, Australia*

Whenever e-Navigation lost its holistic edge | *Jan-Hendrik OLTMANN, Federal Waterways and Shipping Administration, Germany*

Questions and Answers

Coffee/Tea break

13.05 • Session 2 - Developing VTS
Chair: Monica Sundklev

Session introduction

Introduction on China's VTS management and future development | *JIN Shengli, China MSA*

Case study: VTS of Colombia | *Juan Carlos OSPINA ARIAS, Servicio Nacional de Aprendizaje (SENA), Colombia*

Introduction of development on effective calculation formula for adequate number of VTS operator | *JEONG Byung-Woo, Korea Coast Guard*

Questions and Answers

Day 2 — Tuesday - 13 April

Live broadcast: 11.00 - 14.25 UTC
Moderator | Ms Pauline de Wilde

11.00 • Session 3 - Managing risk
Chair: Trond Ski

Session introduction

Analyses of AIS data for real time risk detection in maritime traffic | *Takeharu KATO, Japan Coast Guard*

Artificial intelligence to predict long term collision risk | *Jordi DANIËLS, SAAB Technologies, Sweden*

Risk management in XiaZhiMen channel | *KE Ranxuan, Navigation Institute of Jimei University, P.R. China*

Questions and Answers

Coffee/Tea break

12.10 • Session 4 – Anomaly detection and decision support
Chair: Jorge Arroyo

Session introduction

VTS intelligent technology | *LI Lina, School of Navigation, Jimei University, P.R. China*

Development and trials of the concept of new generation decision support system in VTS | *Dmitry ROSTOPSHIN, Wärtsilä Digital Technologies, Russia*

Analysis paralysis: breaking free from traditional decision making in the VTS environment | *Ernest BATTY, IMIS Global Limited, UK*

Questions and Answers

Coffee/Tea break

13.20 • Session 5 - Embracing ENAV
Chair: Mahesh Alimchandani

Session introduction

A lay-person's description of e-Navigation | *Axel HAHN, OFFIS e.V., Germany*

Advances of the Maritime Connectivity Platform | *Thomas CHRISTENSEN, Maritime Connectivity Platform Consortium*

Canada's eNavigation architecture and the place for VTS | *Jean-François COUTU, Canadian Coast Guard*

Questions and Answers

Day 3 — Wednesday - 14 April

Live broadcast: 11.00 - 14.30 UTC
Moderator | Ms Pauline de Wilde

11.00 • Session 6 – Connectivity and resilient PNT
Chair: Michael Hoppe

Session introduction

VDES developments with a focus on R-Mode | *Jan SAFAR, General Lighthouse Authorities, UK*

A demonstration experiment for the practical implementation of VDES | *Tomoya NAKAJIMA, Japan Coast Guard*

R-Mode Baltic – Testbed for safe navigation at the Baltic Sea | *Stefan GEWIES, German Aerospace Center (DLR)*

Questions and Answers

Coffee/Tea break

12.15 • Session 7 – Digital communication
Chair: Jin Park

Session introduction

Developments in maritime radio communication - Outcome of the World Radiocommunication Conference 2019 | *Stefan BOBER, Federal Waterways and Shipping Administration, Germany*

Camera-based location detection of non-AIS vessels | *Kazuhiko NAKAMURA, Japan Coast Guard*

Internet AIS of e-Navigation background | *REN Yalei, Yangshangang Maritime Safety Administration, P.R. China*

Questions and Answers

Coffee/Tea break

13.25 • Session 8 – Navigation safety
Chair: Richard Aase

Session introduction

VTS and e-Navigation: Traffic organisation by moving havens | *Thomas PORATHE, Norwegian University of Science and Technology*

Smart shipping and the impact on port authority | *Harmen VAN DORSSER, Port of Rotterdam, The Netherlands*

Technology Psychology – looking at the skill set for VTS Personnel in a changing maritime environment | *Jillian CARSON-JACKSON, The Nautical Institute*

Questions and Answers

Day 4 — Thursday - 15 April

Live broadcast: 11.00 - 14.05 UTC
Moderator | Ms Pauline de Wilde

11.00 • Session 9 – Transport chain efficiency
Chair: Dirk Eckhoff

Session introduction

The changing world of VTS - From analog binoculars to digital decisions, increasing capacity and accuracy | *Anders JOHANNESSON, Swedish Maritime Administration*

The PortCDM (Port Collaborative Decision Making) concept | *Michael BERGMANN, International PortCDM Council, RISE, Germany*

The progress and prospect on e-Navigation of China MSA | *XU Binsheng, Maritime Safety Administration, P.R. China*

Questions and Answers

Coffee/Tea break

12.15 • Session 10 – Safety and security in a connected world
Chair: Neil Trainor

Session introduction

Is '5G' for e-Navigation and VTS? | *Jan-Hendrik OLTMANN, Federal Waterways and Shipping Administration, Germany*

A tale of 5 ships | *Todd SCHUETT, SESAME Solution II Project, Norway*

Cyber-security in VTS | *Martijn EBBEN, Port of Rotterdam, The Netherlands*

Questions and Answers

Coffee/Tea break

13.20 • Session 11 – VTS training and certification
Chair: Els Bogaert

Session introduction

Making the Grade? An overview of [experience gained in auditing] VTS training | *Jillian CARSON-JACKSON, The Nautical Institute*

Designing simulation exercises for recruitment of future VTS operators | *Juan Carlos FERNANDEZ SALINAS, Spain*

Questions and Answers

Day 5 — Friday - 16 April

Live broadcast: 11.00 - 13.05 UTC
Moderator | Ms Pauline de Wilde

11.00 • Session 12 – MASS challenges
Chair: René Hogendoorn

Session introduction

VTS and MASS - Responsibilities and consequences | *Pia MELING, Massterly AS, Norway*

MASS for aids to navigation needs - The Chilean approach | *James CRAWFORD, Chilean Navy DIRECTEMAR, Chile*

A decision support tool based on the collision avoidance algorithm for autonomous ships | *Koichi NISHIMURA, TST Corporation, Japan*

Innovations needed for autonomous and sustainable shipping technology | *Harmen VAN DORSSER, Port of Rotterdam, The Netherlands*

Questions and Answers

Coffee/Tea break

12.25 • Closing session
Chair: Monica Sundklev and Hideki Noguchi

Symposium summary and highlights

Presentation Conference 2022 - Brazil

Presentation Symposium 2024 - Singapore

Closing speech by *Mr Francis Zachariae, IALA Secretary-General*

Wrap-up and closing