

Remote Hydrography

CONFERENCE PROGRAMME DAY 1

Timings are subject to change

TUESDAY 27 FEBRUARY 2024

08:30 – 10:00

Registration & Exhibition Opens

The exhibition will be open to delegates, with refreshments served in the Main Exhibition Area and the Remote Operations Room

10:00 – 10:30

Welcome & Keynote Address

10:00 – 10:10 **Organiser's welcome**

Trish Buxton, THS:UKI Chair and Becky Conway, THS:UKI CEO

10:10 – 10:30 **AI & Geospatial – Looking beyond the hype**

Ed Parsons, Geospatial Techologist at Google

10:30 – 12:00

Session 1 | Extending Platform Capability

Session Chair: Mark Poole, bp Solutions

10:30 – 10:50 Fulfilling the potential of USVs will require an evolution of mindset – but everyone will benefit, *Michael King, Sulmara*

10:50 – 11:10 Enabling USVs to use the same equipment as traditional vessels, *Shepard M. Smith, XOCEAN*

11:10 – 11:30 Developments in mini-MASS to conduct Hydrographic and Geophysical surveys for offshore energy, *Kerry Beckwith, Unmanned Survey Solutions (USS)*

11:30 – 11:50 Streamlining shallow water pipeline survey with Unmanned Surface Vessels, *David Rennie, Unique Group*

11:50 – 12:00 Questions & Answers

12:00 – 13:00

Lunch & Exhibition | Sponsored by EdgeTech

Lunch will be available in the Main Exhibition area and the Remote Operations Room



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13:00 – 14:30

Session 2 | Technology

Session Chair: John Dillon-Leetch, Port of London Authority

- 13:00 – 13:20 Cortix – a vessel automation solution enabling remote operations, *Adrien Barral, Exail*
- 13:20 – 13:40 Remote surveying with real-time situational awareness from shore, *Terje Haga Pedersen, Colleen Peters, Jose Cordero, Kongsberg*
- 13:40 – 14:00 Compute, Cloud and Storage – challenges and solutions to next generation offshore acquisition, *Darren Briggs, Jon Moore, ET Works*
- 14:00 – 14:20 How developments in simultaneous technology strands have enabled the barriers to wide scope USV operations to be overcome, *Andre Fabik, L3Harris*
- 14:20 – 14:30 Questions & Answers

14:30 – 15:00

Break & Exhibition | Sponsored by Trimble Applanix

Refreshments will be available in the Main Exhibition area and the Remote Operations Room

15:00 – 16:50

Session 3 | Regulations & Risk in Remote Hydrography

Session Chair: Cathal Leigh-Doyle, Stephenson & Harwood

- 15:00 – 15:10 Opening presentation from *Cathal Leigh-Doyle, Stephenson & Harwood*
- 15:10 – 15:30 Autonomy and regulating the future, *Gwilym Stone, Maritime and Coastguard Agency (MCA)*
- 15:30 – 15:50 UK legislation on mini-MASS – one size fits all, *James Williams, USS/FAST Cluster*
- 15:50 – 16:20 The regulatory and risk environment around USVs – an operators perspective, *Nicolas Gracieux, Exail*
- 16:20 – 16:50 Panel Discussion

17:00 – 19:00

Taste of Ireland | Networking Event

Join THS:UKI, INFOMAR and all the Remote Hydrography 2024 exhibitors for an evening of networking and socialising within the Main Exhibition area and Remote Operations Room. Visit participating stands to sample different **Tastes of Ireland** and see if you can crack the anagram to be in with the chance to win a prize.



27-28th February 2024



Dublin Castle, Ireland



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CONFERENCE PROGRAMME DAY 2

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WEDNESDAY 28 FEBRUARY 2024

08:30 – 09:00

Registration & Exhibition Opens

The exhibition will be open to delegates, with refreshments served in the Main Exhibition Area and the Remote Operations Room

09:00 – 10:30

Session 1 | Academia / Early Experience

Session Chair: Cassandra Nanlal, University College London

- 09:00 – 09:20 Utilising an Uncrewed Survey Vessel to investigate Tonga's Hunga-Tonga Huna-Ha'apai submarine volcanic eruption, *Aileen Bohan & Kevin Mackay, INFOMAR, GSI & NIWA*
- 09:20 – 09:40 Innovations in subsea autonomy and Low-carbon remote operations as a student founder, *Aryan Shah & Andrew Boyd, Imperial College London*
- 09:40 – 10:00 The sustainability of Unmanned Survey Vessels within port engineering applications, *Oliver Foulds, University College London*
- 10:00 – 10:20 Taking navigation off our hands: enabling autopilot capabilities outside of USVs, *Graham Christie, Daniel Neville & Ian Church, University of New Brunswick*
- 10:20 – 10:30 Questions & Answers

10:30 – 11:00

Break & Exhibition | Sponsored by Saildrone

Refreshments will be available in the Main Exhibition area and the Remote Operations Room

11:00 – 12:30

Session 2 | Operational Experience – 1

Session Chair: Becky Conway, THS:UKI & OceanWise

- 11:00 – 11:20 Satellite and drone based multispectral analysis of shallow waters – new innovations, *Knut Hartmann, Mona Reithmeier, Kim Knauer, Manfred Stender & Carlos R Videira, EOMAP, Fugro & Instituto Hidrografico*
- 11:20 – 11:40 The Port of London's use of remote platform technology for interdisciplinary topics – A Surveyor's Perspective, *Tom Ford & Tom Ochman*
- 11:40 – 12:00 Ping to Bridge: Joining cloud technology and remote operations to improve navigation in dynamic channels, *Travis Hamilton & Leonardo Figueroa, Teledyne CARIS & Kongsberg*
- 12:00 – 12:20 Exploring the boundaries of uncrewed surface vessels for ocean mapping and scientific assistance, *Avery Munoz, Val Schmidt, Airlie Pickett, University of New Hampshire*
- 12:20 – 12:30 Questions & Answers



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12:30 – 13:30

Lunch & Exhibition | Sponsored by Clinton Marine Survey

Lunch will be available in the Main Exhibition area and the Remote Operations Room

13:30 – 15:00

Session 3 | Operational Experience – 2

Session Chair: David Parker, UK Hydrographic Office

- 13:30 – 13:50 Our journey to simplification: MASS pilot in Nigeria, *Olajide Fagbewesa, Awotiwon Olusola & Steve Keedwell, Shell Nigeria*
- 13:50 – 14:10 Applying the Appropriate Tool for the Job: How the National Oceanic and Atmospheric Administration Office of Coast Survey has optimized their Autonomous Platform Toolbox, *Michael Stephens, Robert Downs & Megan Greenaway, NOAA*
- 14:10 – 14:30 Satellite Bathymetry: Empowering hydrographers for future workforce diversity & opportunities, *Kyle Goodrich, TCarta*
- 14:30 – 14:50 Using USV operational experience to inform innovation strategy within a port environment, *Niall Mason, Peel Ports*
- 14:50 – 15:00 Questions & Answers

15:00 – 15:30

Break & Exhibition

Refreshments will be available in the Main Exhibition area and the Remote Operations Room

15:30 – 17:00

Session 4 | The Future

Session Chair: Gordon Johnston, Venture Geomatics

- 15:30 – 15:50 Remote Hydrography – impact and opportunities for hydrographers, *Brian D. Connon, Saldrone*
- 15:50 – 16:10 INFOMAR for Policy, Research and Development – Technical evolution of a national mapping programme, *Tommy Furey & Sean Cullen, INFOMAR*
- 16:10 – 16:30 Automation and unmanned solutions in hydrographic surveys with the use of smart tools, *Martin Wikmar, Clinton Marine Surveys*
- 16:30 – 17:00 Panel Discussion: Strategic Direction

17:00

Conference & Exhibition Closes

