

DAY 1 - TUESDAY 28TH OCT

INNOVATION IN HYDROGRAPHIC EFFICIENCY, AUTOMATION & COASTAL INTELLIGENCE

09:00 - 10:15

REGISTRATION OPENS 08:30

CONFERENCE PLENARY

Conference Opening & Welcome, **THS:UKI**

The Golden Age in Shipwreck Discovery and Exploration, **David L. Mearns OBE, OAM, Blue Water Recoveries Ltd**

Advances in Tidal Prediction for Offshore & Coastal Survey Work, **Layton Quinton, National Oceanography Centre**

10:15 - 10:45 REFRESHMENT BREAK SPONSORED BY CHC NAVIGATION

10:45 - 12:15

SESSION 1 | SATELLITE & SIMULATION FOR SURVEY EFFICIENCY

Enhancing Maritime Positioning Resilience with LEO-Based PPP Delivery, **Simon Canning, DDK Positioning**

Protecting Critical Underwater Infrastructure using Earth Observation & Advanced Analytics, **Dr. Kim Knauer, EOMAP**

A Test Environment for Simulation-Based Testing of MASS-Functions in Traffic Separation Schemes, **Nina Wetzig, German Aerospace Centre (DLR)**

Portuguese Shallow Seabed Monitoring Through Satellite Derived Bathymetry, **Ruben Santos, Instituto Hidrográfico**

12:15 - 13:45 LUNCH BREAK SPONSORED BY NORBIT

13:45 - 15:15

SESSION 2 | AUTOMATION & ASSURANCE IN HYDROGRAPHIC DATA

Bathymetry Processing - Moving the Needle to Full Automation, **Harold Orlinsky, Chesapeake Technology**

AI in Hydrography: Automate What You Can, Validate What You Must, **Andrijana Horvat, Hidrocibalae**

Reviewing Quality Assurance (QA) at Hydrographic Surveys, **Carlos Rubrio, Instituto Hidrográfico**

Efficient Extraction of Reference Seabed Level from High-Resolution Bathymetric Data Using Percentile Filtering & Parallel Processing, **Efemena Clinton Annie, Next Geosolutions**

Shom-UKHO Partnership for AI-Driven MBES Bathymetric Processing Evaluation, **Coraline Delblond, Shom**

15:15 - 15:45 REFRESHMENT BREAK

15:45 - 17:15

SESSION 3 | MODERN SURVEY TOOLS FOR COASTAL PORT MANAGEMENT

Real-Time Insights: Rapid Situational Awareness & Essential Resource Management for Ports & Harbours, **Tom Broomfield, NORBIT**

Evaluating the Applicability & Efficiency of Two MBES Systems for Port Engineering Purposes, **Cassandra Nanlal, UCL**

Unfolding Vertical Structures: Enhancing Port Survey Workflows with 3D Coordinate Transformations, **Travis Hamilton, Teledyne CARIS**

Two Decades of Topo-Bathymetric LiDAR for the French Coastal Mapping Programme, **Julien Smeckaert, Shom**

DAY 2 - WEDNESDAY 29TH OCT

EXPANDING CAPABILITY THROUGH DATA, PARTNERSHIP & RESEARCH

REGISTRATION OPENS 08:30

09:00 - 10:30

SESSION 4 | INNOVATIVE TOOLS FOR SURVEY OPERATIONS

The Benefits of Integrating 3D Chirp Data & Magnetic Data for Detecting Buried Unexploded Ordnance, **Abby Martin, Kraken Robotics**

The Use of Innovative Technologies in Offshore Cables - The Pitfalls & Positives, **Phil Payne, National Grid**

A New Era of Efficient Survey Operations: Enabling MASS, ROV & AUV Integration in Nigeria, **Olajide Fagbewesa, Shell**

Precise Array Network Positioning for High-Resolution 3D Seismic Surveys, **Craig Dyer, RWE**

10:30 - 11:00 REFRESHMENT BREAK SPONSORED BY SURVEY EQUIPMENT SERVICES

11:00 - 12:30

SESSION 5 | NEXT-GEN PROCESSING FOR HYDROGRAPHIC INTELLIGENCE

Massively Scalable, Cloud-Native Hydrographic Data Processing - From Sensor Data to High-Resolution Deliverables, **Jann Wendt, north.io**

Navigating the Future: Transforming Nautical Chart Production with "ENC First" Initiative, **Ross Havery, Port of London Authority (PLA)**

New Waters for LiDAR Bathymetry: Experience from Use Cases Related to Underwater Object Recognition, **Ursula Riegl, RIEGL Laser Measurement Systems GmbH**

Navigating the Hydrospace Evolution: Transforming Dredging Operations in the Digital Era, **Cristhian Bermudez, HYPACK**

Evaluating the YellowScan Navigator Topo-Bathymetric Lidar against IHO S44 Standards, **Coralie Monpert, Shom**

12:30 - 14:00 LUNCH BREAK SPONSORED BY TELEDYNE CARIS

14:00 - 15:30

SESSION 6 | EMERGING RESEARCH - QUICK FIRE PRESENTATIONS

THS:UKI Alan Ingham Award Winner - Establishing an Accurate Mean Sea Level Model in the Dutch Caribbean Using Vessel-Based PPP-GNSS Measurement, **Merte Peeters**

IFHS Student Award Winner - **TBC**

Optical Measurements at Different Turbidity Levels in Port Waters: A Comparative Study of Photogrammetric & Underwater Laser Scanning Approaches, **Lukas Klatt**

Advancing Optical Hydrography: A Comparison of High-Resolution Underwater LiDAR and Low-Cost Underwater Photogrammetry, **Fickrie Muhammad**

Automatic Detection & Multiclass Segmentation of Underwater Pipelines using Computational Models, **Sethmiya Herath Mudiyanse**

DAY 2 - WEDNESDAY 29TH OCT

EXPANDING CAPABILITY THROUGH DATA, PARTNERSHIP & RESEARCH

14:00 - 15:30

SESSION 6 | EMERGING RESEARCH - QUICK FIRE PRESENTATIONS - CONT.

The Growing Geopolitical Value of Scientific Data from Underwater Observations, **Gabriele Olivieri**

Seafloor Hydrothermal Vents Discovered within Pit Craters of Quest Caldera, South Sandwich Islands, **Tea Isler**

From Vespucci, Columbus & Magellan to the Modern Offshore Survey, **Alessio Vespucci**

A Comparison of Sonar & LiDAR Data with a Focus on Aquatic Vegetation, **Jan Rhomberg-Kauert**

Leveraging Robotic Total Stations for Highly Accurate Multibeam Bathymetry in Inland Waters, **Lucas Dammert**

15:30 - 16:00 REFRESHMENT BREAK

16:00 - 17:30

SESSION 7 | SEABED MAPPING FOR ECOSYSTEMS, NATIONAL & GLOBAL INSIGHT

Mapping Australia's Marine Estate: Progress & Vision of the AusSeabed Initiative, **Mary Young, AusSeabed Steering Committee**

Mapping Northern Ireland's Coastal Zone with Airbourne LiDAR, **Charles de Jongh, Field**

Seagrass Mapping Along the Italian Coast for Marine Ecosystem Restoration, **Tanja Dufek & Nick Rackebrandt, Fugro**

Building Hydrographic Capability in Developing Countries: Challenges & Initiatives, **Piers Wilson, UKHO**

AFTER THE CONCLUSION OF THE CONFERENCE ON DAY 2, THE
GALA DINNER WILL BE HELD AT THE CROWNE PLAZA
WELCOME DRINKS FROM 18:30

DAY 3 - THURSDAY 30TH OCT

AUTONOMOUS SYSTEMS, OPERATIONAL EXCELLENCE & FUTURE OCEANS

09:00 - 10:30

REGISTRATION OPENS 08:30

SESSION 8 | ADVANCED SURVEY OPERATIONS WITH INTEGRATED SENSOR TECHNOLOGIES

Mapping Buried Critical Underwater Infrastructure with 3D Acoustics, **Chris Almond, Kraken Robotics**

High-Resolution Inspection of Large Hydraulic Structures using a Multi-Phase Echosounder, **Richard Hill, Edgetech**

Low Frequency SAS Imaging & Bathymetry with Correlative Multibeam Soundings for Seafloor & Sub-Seabed Mapping, **Michael King, Sulmara**

How to Make Survey Planning Efficient Online (Fast), **Dr. Knut Hartmann, EOMAP**

10:30 - 11:00 REFRESHMENT BREAK SPONSORED BY TELSTRA TECHNOLOGIES

11:00 - 12:30

SESSION 9 | SMART HYDROGRAPHIC SYSTEMS FOR RESILIENCE

Royal Navy's Autonomous Systems for Data Collection, **Commander Mark Butcher, Navy Develop, Royal Navy, UK**

Adaptive Sonar Technologies for Surveillance & Protection of Critical Maritime Infrastructure, **Becky Conway, NORBIT**

Lightweight Model Design for Automatic Bare Earth Point Detection in 3D Bathymetric LiDAR Point Clouds, **Dr. Xavier Pellerin Le Bas, Scienteam**

Fugro Satellite Positioning Jamming & Spoofing Mitigation, **Hans Visser, Fugro**

Project UAWOS: Where Hydrography Meets Hydrology in the Sky, **Tom Hiller, Thurn Group**

12:30 - 14:00 LUNCH BREAK SPONSORED BY EDGETECH

14:00 - 15:30

SESSION 10 | AUTONOMOUS SYSTEMS SHAPING THE FUTURE OF SURVEY

Streamlining Hydrographic Survey Operations for Offshore Wind Farm Development using WAM-V8 Unmanned Surface Vehicle with Integrated Acoustic Survey Systems, **Thomas Meurling, Ocean Power Technologies**

Hydrography, USVs & Regulations, **James Williams, Uncrewed Survey Solutions (USS)**

Charting the Great Barrier Reef: The First USV Only Bathymetric Survey for the AHO's HydroScheme Industry Partnership Programme (HIPPP), **Martin Tunwell, XOCEAN**

The Evolution of Uncrewed Subsea Pipeline Inspection: DeepOcean & USV Challenger, **Al Rumson, DeepOcean Group**

15:30 - 16:00 REFRESHMENT BREAK

16:00 - 17:30

SESSION 11 | FUTURE OCEANS - INTEGRATION, SKILLS & AUTONOMY

The UK Centre for Seabed Mapping - Working Towards a More Integrated Marine Geospatial Sector in the UK, **Robert Clarke, UKHO**

Bridging Competency & Industry: The Relevance of S-5B Learning Outcomes to Offshore Surveying, **Shelly Leighton, IIC Technologies**

Maritime Autonomy Challenge - Inspiring the Next Generation of Marine Autonomy Innovators, **Emma Johnson, Society of Maritime Industries (SMI)**

HANDOVER TO HYDRO 2026