



Programme

Monday 27th October

0800 **Exhibition Build-Up**

Boyd Orr Hall, AECC

1000 onwards **Hydro14 Golf Tournament**

Murcar Links Golf Club, Bridge of Don, Aberdeen

sponsored by C-Nav



1600 onwards **Delegate and Visitor Registration**

Main Concourse, AECC

1830 onwards **Ice-Breaker Party**

Main Concourse, AECC

sponsored by QPS BV



Tuesday 28th October

0830 **Delegate and Visitor Registration**

Main Concourse, AECC

Coffee

Boyd Orr Hall, AECC

0915 **Welcome and Opening Ceremony**

Chairman: Andy Dare, Chairman, The Hydrographic Society in Scotland

David Parker, *Chairman, The Hydrographic Society UK*

Holger Klindt, *Chairman, International Federation of Hydrographic Societies*

Gilles Bessero, *Director, International Hydrographic Organization*

Councillor George Adam, *Lord Provost of Aberdeen*

Session 1: Data Management & Integration

Chairman: Holger Klindt, *Director of Civil Maritime Business, ATLAS Elektronik (Germany)*

0945 **Keynote Address 1: Intelligent understanding and the Blue Economy: Leveraging the power of Knowledge integration**

Monty Mountford OBE, *Storm Geomarine and FREMO (UK)*

1015 **Paper 1: Using GIS to manage survey planning, operations and reporting for UKCS Schiehallion redevelopment**

Andy Fletcher, *BP Quad 204 Project (UK)*

1045 **Paper 2: Prepared for the worst: Using aerial remote sensing for coastal baseline mapping prior to coastal disasters**

Todd Mitchell, *Fugro Pelagos Inc (USA)* to be presented by Don Ventura, *Fugro-Pelagos Inc. (USA)*

1115 **Coffee**

Exhibition opens

1145 **Paper 3: Multi-Detect for SeaBat multibeam sonar: Case studies**

Pim Kuus, *Teledyne RESON (UK)*

1215 **Paper 4: Redeveloping the North Sea - Ground model data integration using a GIS**
David Rushton, *Fugro GeoConsulting (UK)* et al.

1245 **Lunch**

Session 2: Our Future

Chairman: Rob van Ree, *Senior Lecturer, Maritime Institute Willem Barentsz (The Netherlands)*

1345 **Paper 5: Comparison of subsea power cable tracking systems and accuracy investigation of the Teledyne TSS 350**

Oliver Kumpel, *Graduate of HafenCity University, Fugro OSAE (Germany)*

1410 **Paper 6: Novel uses of a Teledyne RESON 7128 imaging multibeam sonar to track basking sharks in UK waters in the light of renewable energy extraction**

Lilian Lieber, *School of Biological Sciences, University of Aberdeen (UK)* et al.

1435 **Paper 7: Investigating the potentials of an automatic seafloor classification from multibeam backscatter data in Fledermaus Geocoder Toolbox (FMGT)**

Chidi Nwoke, *HafenCity University (Germany)*

1500 **Paper 8: How ROVs and AUVs have enlightened our Blue Planet**

Katrina Murphy, *University of Aberdeen (UK)*

1530 **Coffee**

Session 3: Tidal & Sea Level Monitoring

Chairman: Aubrey Price, *Executive Director, C&C Technologies (SA) (Pty) Ltd (South Africa)*

1600 **Paper 9: Evaluation of GNSS-derived tidal information in hydrographic applications**

Ben Dean, *C&C Technologies UK Ltd (UK)*

1630 **Paper 10: Delivering a new tidal monitoring system for the Port of London Authority**

Richard Farren and John Pepper, *OceanWise Ltd (UK)* to be presented by Caroline Levey, *OceanWise Ltd* and John Pinder, *Port of London Authority (UK)*

1700 **Paper 11: Modern hydrographic techniques supporting beach restoration and sustainable coastal management**

Don Ventura, *Fugro Pelagos Inc. (USA)*

1800 **Exhibition closes**

Reception at Aberdeen Maritime Museum

onwards

Shiprow, Aberdeen

sponsored by Atlas Professionals

Bus transport from AECC to the Museum will be provided. All delegates wishing to use this facility must sign up in advance on one of the lists posted in the Main Concourse at AECC



Buses leave
AECC @ 1745
and 1855

Wednesday 29th October

0830 **One-Day Delegate and Visitor Registration**
Main Concourse, AECC

Coffee
Boyd Orr Hall, AECC

Session 4: Low Impact Offshore Exploration

Chairman: Walter Jardine, *Survey & Positioning Authority, BP E&P Co Ltd (UK)*

0915 **Paper 12: Autonomous underwater vehicle operations in the Arctic**
John McMillan, *International Submarine Engineering Ltd (Canada)*

- 0945 **Paper 13: The FishSAFE Information Project (formerly KIS-UKCS): Accurate oil and gas infrastructure data in a safety and communication critical role**
Luis McArthur, Total E&P UK Ltd (UK)
- 1015 **Paper 14: Experiences with hydrographic data budgets using a low-logistics AUV platform**
Thomas Hiller, Teledyne Gavia (Iceland) et al.
- 1045 **Coffee**
- Session 5: Standards**
Chairman: Gordon Johnston, Director, Venture Geomatics Ltd (UK)
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- 1115 **Paper 15: e-Navigation: Do we need the IMO SIP?**
Edward Hosken, United Kingdom Hydrographic Office (UK)
- 1145 **Paper 16: Leveraging more business value for hydrographic data**
Mark Jones, Shell UK Ltd (UK)
- 1215 **Paper 17: Data, data everywhere. We are now in the 'big data' era**
Mike Liddell, Fugro Survey Ltd (UK)
- 1245 **Paper 18: Harmonising survey deliverables - Emerging standards and smart data exchange**
Andy Hoggarth and Karen Cove, CARIS (Canada)
- 1315 **Lunch**

Session 6: Workshops, Demonstrations and Visits

- Various Optional activities throughout the afternoon include:
- Workshops, Demonstrations and Themed Discussion Forums at AECC*
 - Technical Visits to sites of interest around Aberdeen*

1545 **Coffee**

Various **see Workshop, Demonstration & Visits Programme for further details*

1730 **Exhibition closes**

1900 onwards **Hydro14 Conference Dinner** Pre-booking essential

Elphinstone Hall, King's College, Old Aberdeen

sponsored by Esri



Drinks Reception (Linklater Rooms) **Conference Dinner** (Elphinstone Hall)

Afterwards delegates may retire to the Linklater Rooms where they can continue to chat and enjoy drinks from a cash bar until midnight

Bus transport from AECC to Elphinstone Hall will be provided. A limited return service will also be available.

Thursday 30th October

0815 **One-Day Delegate and Visitor Registration** **Coffee**
Main Concourse, AECC Boyd Orr Hall, AECC

Session 7: Data Quality & Resilience
Chairman: Ian Douglas, Head of Offshore Surveys Europe, Shell (UK)

0845 **Paper 19: Pipeline inspection and integrity management in the Caspian Sea: Pipeline integrity review... A personal perspective**
Eric Primeau, BP North Sea (UK) (ex-Azerbaijan)

- 0915 **Paper 20: Real-time sounding uncertainty estimation in phase measuring bathymetric sonars**
Francisco Gutierrez, Kongsberg GeoAcoustics (UK)
- 0945 **Paper 21: Multibeam echo sounders: Do beam size, frequency and number of beams matter?**
James Williams, Swathe Services (UK)
- 1015 **Paper 22: Automatic 3D boresight estimation of IMU and multibeam echo sounder systems**
Kees de Jong, Fugro Intersite (The Netherlands), Sebastien Levilly, ENSTA (France) and Nicolas Seube, CIDCO (Canada)

1045 **Coffee**

Session 8: The IHO & Us

Chairman: Gilles Bessero, *Director, International Hydrographic Organization (Monaco)*

- 1115 Building on the theme for World Hydrography Day 2014 'Hydrography: More than just charts' this IHO-led stakeholder forum will explore how to improve the two-way interaction between the IHO and industry
- Mathias Jonas, *Bundesamt für Seeschifffahrt und Hydrographie (Germany)*
Duncan Mallace, *Managing Director, MMT UK Ltd (UK)*
Will Primavesi, *Survey Services Director, Specialist Subsea Services (UK)*
Nicolas Seube, *Scientific Director, CIDCO (Canada)*
Rob Spillard, *Fugro EMU Ltd (UK)*

The IHO are very keen to hear the views of delegates throughout this session

1245 **Lunch**

Session 9: Education & Training

Chairman: Dr David Green, *Director, Aberdeen Institute for Coastal Science and Management, University of Aberdeen (UK)*

- 1345 **Keynote Address 3: Evolutionary steps in hydrographic learning and development**
Don Ventura, *Fugro Pelagos Inc. (USA)*
- 1405 **Paper 23: Hydrographic education in Belgium**
Axel Annaert and Micha Libert, *Institute for Hydrography, Antwerp Maritime Academy (Belgium)*
- 1435 **Paper 24: Filling the skills gap through innovation in higher education**
Richard Thain and Paul Newman *Hydrographic Academy, Plymouth University (UK)*

1505 **Coffee**

1530 **Exhibition closes**

Session 10: Subsea Engineering Surveying

Chairman: Colin Cameron, *Vice-President, DOF Subsea Survey & Positioning (UK)*

- 1530 **Paper 25: Sparse LBL-aided INS for subsea positioning: Lessons learnt**
Edward Moller, *Sonardyne International Ltd (UK)*
- 1600 **Paper 26: Using close range photogrammetry to meet offshore platform construction and installation requirements**
Simon Manser, *BP Exploration (UK)*
- 1630 **Closing Ceremony**
Including Official handover to Hydro15 Organising Committee