

Monday, 7 Nov 2016

Time

19:00 Icebreaker Reception (exhibition area; free attendance for delegates and exhibitors; please pre-book)

Tuesday, 8 Nov 2016

Time	Auditorium A	Auditorium B
08:30	Registration & Exhibition open / Coffee & Tea	
	Opening Ceremony	
09:00	<i>Holger Klindt, Rob van Ree</i> : DHyG / IFHS Opening Adresses	
09:20	<i>Mathias Jonas, Robert Ward</i> : BSH / IHB Welcome Adresses	
09:45	[K1] <i>Peter Ehlers</i> : Ocean governance and hydrography	
10:05	[K2] <i>John Huges Clarke</i> : Future perspectives on multibeam backscatter and seabed classification	
10:30	Exhibition Opening Ceremony / Coffee & Tea	
	Session 1A: Perspectives of Hydrography	Boat Demos & Workshops
11:10	[1A1] <i>Robert Ward</i> : General future perspectives of the IHO	
11:35	[1A2] <i>Mathias Jonas</i> : The provision of hydrographic services as core element of E-navigation – status and perspective	
12:00	[1A3] <i>Don Ventura</i> : Intelligent exploitation of the blue economy – a hydrographic perspective	
12:25	Lunch / Exhibition	
	Session 2A: Student Session	Boat Demos & Workshops
13:30	[2A1] <i>Jean-Guy Nistad</i> : Backscatter adjustment for multi-sector multi-swath multibeam echo sounders	
13:55	[2A2] <i>Mark Gray</i> : RapidCast: Analysis of spatio-temporal variability in high resolution speed of sound measurements	
14:20	[2A3] <i>Arne Lohrberg</i> : Analysis of gas seep activity in Eckernförde Bay and assessment of its linkage to pockmarks and sub-bottom strata	
14:45	[2A4] <i>Geraud Naankeu Wati</i> : Error budget analysis for hydrographic survey systems; implementation on an inspection campaign of pipelines by an AUV	
15:10	Coffee & Tea / Exhibition	
	Session 3A: Emerging topics in multibeam echosounding and surveying	Session 3B: Software & Data Management
15:50	[3A1] <i>Jonathan Beaudoin</i> : Transitioning research to operations: The case of wobble analysis	[3B1] <i>Charles de Jongh</i> : Using CARIS to automate bathymetric data management at Rijkswaterstaat
16:15	[3A2] <i>Rozaimi Che Hasan</i> : Determining number of classes for sediment classification from multibeam backscatter images	[3B2] <i>Morten Revsbæk</i> : Semi-automatic generation of depth curves and sounding selection
16:40	[3A3] <i>Auke van der Werf</i> : Maximising business value from offshore survey data in the oil and gas industry	[3B3] <i>Mark Terlien</i> : Managing hydrographic data for multiple usage
17:05	[3A4] <i>Marco Filippone</i> : Multibeam water column imaging for charting least depth value	[3B4] <i>Derrick R. Peyton</i> : Marine cadastre as an application of MSDI
17:30	End of Sessions	
20:00	Conference Dinner (80€ per person; coaches will be provided; please pre-book)	

Wednesday, 9 Nov 2016

Time	Auditorium A	Auditorium B
08:30	Registration & Exhibition open / Coffee & Tea	
09:00	Session 4A: In-situ and remote hydrography [4A1] <i>Ingo Hennings</i> : Comparison and characteristics of oceanographic in situ measurements and simulations above submerged sand waves in a tidal inlet	Session 4B: Improving nautical information [4B1] <i>Tom De Puyt</i> : Enabling hydrographic offices to support new markets with S-57 datasets
09:25	[4A2] <i>Martin Verlaan</i> : Tidal correction and height referencing for bathymetric survey data	[4B2] <i>Benjamin Hell</i> : Finalising Baltic Sea surveys for the needs of shipping
09:50	[4A3] <i>Fabian Wolk</i> : Quantifying turbulence in tidal channels	[4B3] <i>Gunter Liebsch</i> : Recent developments for an improved chart datum in the Baltic Sea
10:15	Coffee & Tea / Exhibition	
10:45	Session 5A: Space hydrography [5A1] <i>Stefan Wiehle</i> : The BASE-platform project: Deriving the bathymetry from combined satellite data	Session 5B: Nautical charting [5B1] <i>Justin Hornby</i> : Integration of bathymetric data management and chart production using dKart tools
11:10	[5A2] <i>Knut Hartmann</i> : Satellite based bathymetry and seafloor mapping for the shallow water zone: Recent advances and applications	[5B2] <i>Niels Horneburg</i> : ENC and ECDIS
11:35	[5A3] <i>Pau Gallés</i> : Global bathymetry from satellite altimeter sensor	[5B3] <i>Kevin J. Ingram</i> : Charts on demand: A potential new revenue stream for hydrographic agencies
12:00	[5A4] <i>Andrey L. Pleskachevsky</i> : Sea state from high resolution satellite-borne synthetic aperture radar imagery	
12:25	Lunch / Exhibition	
13:30	Session 6A: Energiewende – Challenges in the wind offshore business [6A1] <i>Marc Itgen</i> : Use of a GNSS RTK-system in a North Sea offshore wind farm	Boat Demos & Workshops
13:55	[6A2] <i>Oliver Anders</i> : The challenge of choosing the right method surveying power cables	
14:20	[6A3] <i>Jens Wunderlich</i> : Burial depth determination of cables using acoustics – requirements, issues and strategies	
14:45	[6A4] <i>Jan Koelbel</i> : Offshore unexploded ordnance recovery and disposal	
15:10	Coffee & Tea / Exhibition	
15:50	Session 7A: LiDAR case studies for hydrographic assessments [7A1] <i>Frank Steinbacher</i> : High resolution, topobathymetric LiDAR coastal zone characterisation in Denmark	Boat Demos & Workshops
16:15	[7A2] <i>Patrick Westfeld</i> : Analysis and modeling of the effect of wave patterns on refraction in airborne LiDAR bathymetry	
16:40	[7A3] <i>Wilfried Ellmer</i> : Use of laser bathymetry at the German Baltic Sea coast	
17:05	[7A4] <i>Lutz Christiansen</i> : New techniques in capturing and modelling of morphological data	
17:30	[7A5] <i>Hugh Parker</i> : Object detection by ALB	
17:55	End of sessions	
19:00	Flying Buffet Reception (Sun Deck; free attendance for delegates and exhibitors; please pre-book)	

Thursday, 10 Nov 2016

Time	Auditorium A	Auditorium B
08:30	Registration & Exhibition open / Coffee & Tea	
	Session 8A: State-of-the-art GNSS techniques	Session 8B: Education
09:00	[8A1] Hans Visser: Fugro Marinestar G4+ GNSS PPP-RTK improvements for offshore applications	[8B1] Johan Stam: Changing market requirements for competence and certification for the hydrographic surveyor
09:25	[8A2] Faisal Alsaq: Analysis of filtering methods to extract the tide height from Global Navigation Satellite Systems (GNSS) observations	[8B2] John McDonald: Changing careers with distance eLearning – from Royal Marine to Hydrographer
09:50	[8A3] Thomas Artz: Improved positioning of surveying vessels on inland waterways with HydrOs	[8B3] Nicolas Seube: Standards of competence – new developments and demands
10:15	Coffee & Tea / Exhibition	
	Session 9A: Hydrography in extreme environments	Boat Demos & Workshops
10:45	[9A1] Melanie Barth: The search of MH370	
11:10	[9A2] Natália Hurtós: Forward looking sonar mosaicing: A new approach for underwater inspection in low visibility conditions	
11:35	[9A3] Max Abildgaard: Simulation based design & development of autonomous underwater vehicle IMGAM	
12:00	[9A4] Wilhelm Weinrebe: Multibeam mapping of remote fjords in Southeast-Greenland	
12:25	Lunch / Exhibition	
	Session 10A: Nautical depth and new survey vessels	Boat Demos & Workshops
13:30	[10A1] Norbert Greiser: Safe navigation in fluid mud – surveying criteria to assess nautical depth	
13:55	[10A2] Pieter de Boer: Provide end users with the most accurate nautical depth measurement by using the combination of echo sounders and density measurement equipment	
14:20	[10A3] Mathias Schloesser: In situ measuring of nautical bottom in respect to dredge works in the Port of Santos	
14:45	[10A4] Jieun Koh: The first launching and naming ceremony of 5,000 ton class R/V ISABU	
15:10	End of sessions	
	Closing Ceremony	
15:15	<i>Holger Klindt, Rob van Ree:</i> Closing Remarks	
15:35	End of HYDRO 2016	

Summary of Social Events and Partner Programme

Monday, 07 November 2016

19:00 Icebreaker Reception (exhibition area; free attendance for delegates and exhibitors; please pre-book)

Tuesday, 08 November 2016

20:00 Conference Dinner (80€ per person; coaches will be provided; please pre-book))

Wednesday, 09 November 2016

19:00 Flying Buffet Reception (Sun Deck; free attendance for delegates and exhibitors; please pre-book)

Entire Conference Week

Guided tours to Rostock, Wismar, Lübeck, Hamburg or Berlin. Please see website for details

Workshops and Technical Visits

Tuesday, 8 November 2016			
11:10	WS-1: ATLAS Elektronik How can autonomous systems influence working processes at sea?	WS-2: R2Sonic	WS-3: EOMAP Shallow Water Bathymetry Survey from Space: Capabilities, limitations and integration
13:30	WS-1: Kongsberg Maritime	WS-2: Edgetech	WS-3: EIVA NaviSuite Kuda software solution for hydrographic surveys.
Wednesday, 9 November 2016			
09:00	Open Ship DENEK (BSH research/survey vessel) at Cruise Terminal Warnemünde		
13:30	WS-1: SBG Systems MEMS INS the core of Hydrographic acquisition	WS-2: Triton Imaging	WS-3: Teledyne Caris Automated Hydrographic Data Management and Deformation Analysis
15:50	WS-1: ATLAS Elektronik Autonomous systems – Demands and technical feasibility in design of AUV.	WS-2: INNOMAR Parametric multi-transducer system for 3D sub-bottom profiling applications	WS-3: QPS
Thursday, 10 November 2016			
10:45	WS-1: RIEGL Laser Systems Airborne Laser Bathymetry - Sensor Technology, Surveying Practice, and Results	WS-2: AllTerra Versatile and precise Mobile Mapping for Waterways Surveys	WS-3: Terra4 / Nortek New broadband AD2CPs (Signature series) and about their DVLS
13:30			WS-3: Esri

On-Water Demos

These companies will run on-water equipment demos:

- Atlas Elektronik
- Geometius BV
- Hülskens Wasserbau GmbH
- INNOMAR Technologie GmbH
- Kongsberg Maritime
- NORBIT Subsea A/S
- QPS
- R2Sonic LLC
- Renishaw plc
- SBG Systems
- Teledyne RESON / MBT

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