

Exhibition is open on Tuesday, Wednesday 08:30 - 18:00, Thursday 08:30 - 15:00

Tuesday, 5 Nov 2024

Auditorium A

Auditorium B

08:00 Registration and exhibition open

09:00 Opening addresses:

Opening addresses: **Thomas Dehling:** DHyG (German Hydrographic Society) **David Vincentelli:** IFHS (International Federation of Hydrographic Societies) **Daniela Kluckert:** BMDV (Federal Ministry for Digital and Transport) **Helge Heegewaldt:** BSH (Federal Maritime and Hydrographic Agency) **Mathias Jonas:** IHO (International Hydrographic Organisation)

Keynote: Xavier Lurton: Backscatter measurements by hydrographic multibeam echo sounders

10:30 Exhibition opening / break

Opening talks (1A)

Jacob Geersen: A submerged stone age hunting architecture from the Western Baltic Sea

- 11:35 Natalie Cornish:
 - Nippon Foundation GEBCO Seabed 2030 and the International Bathymetric Chart of the Southern Ocean

12:00 Holger Klindt:

11:10

13:30

15:50

Marine critical infrastructure – protecting the unseen

12:25 Exhibition / break

Student session (2A)

Kilian Martlage:

Bathymetry estimation using airborne remote sensing RGB image data

13:55 tba 14:20 **Annika Walter:**

Global Lakes and Reservoirs - An investigation to which extent dynamic water body shapes have an impact on the estimates of the total water storage derived from GRACE

- 14:45 **IFHS** student award
- 15:10 Exhibition / break

Optical hydrography I (3A)

Charles de Jongh: Airborne LiDAR bathymetry – advantages and challenges

16:15 David Mader:

Full-waveform stacking techniques applied to coastal LiDAR bathymetry data

16:40 Gottfried Mandlburger:

Optical hydrography – the DGPF's contribution to mapping and monitoring inland coastal waters

17:05 Niels Fuchs:

- Bathymetry of sea ice melt ponds reconstructed from aerial photogrammetry
- 17:30 End of session

20:00 - Conference dinner

Data fusion and management (3B)

15:50	Michael Kowalczyk:
	Hydro Portal: Enhancing hydrographic data
	management in the port of Hamburg
16:15	Jann Wendt:
	Cloud and AI technologies are revolutionizing
	hydrography – The cloud-native TrueOcean platform
16:40	Gunnar Tietze:
	Fusing navigation: ECDIS, drones flights
	and aviation
17:05	Peer Fietzek:
	Augmenting ocean data collection operations and enhancing information generation with Blue Insight

17:30 End of session



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Wednesday, 6 Nov 2024

Auditorium A

08:30	Registration and exhibition open	08:30	Registration and exhibition open
09:00	New trends in positioning (4A) Anja Heßelbarth: Potential of low-cost GNSS and satellite-based correction data for hydrographic surveying	09:00	Underwater infrastructure and monitoring (4B) Jannis Gangelhoff: Advancing underwater inspection: High resolution pulsed time-of-flight laser scanning
09:25	Hans Visser: Fugro Marinestar GNSS PPP	09:25	Annika Walter: Underwater laser scanning: Integration and
09:50	service enhancements in 2024 Fickrie Muhammad: An appraisal of backscatter removal and refraction calibration models for improving the performance of vision-based mapping and navigation in shallow underwater environments	09:50	testing on a survey vessel Jens Wunderlich: Combined technologies for 3D cable tracking: Integrated data acquisition of a 3D sub-bottom profiler and an array of magnetometers
10:15	Exhibition / break	10:15	Exhibition / break
10:45	Harbors and inland waters (5A) David Rossi: Mapping arctic lakes: A challenge for the 79°N parallel	10:45	Education (5B) Denis Hains: Cat A, Cat B or next individual certification!
11:10	Jannis Gangelhoff: Ultra-compact bathymetric measurement system with processing chain for surveying shallow water bodies	11:10	Alain De Wulf: Lessons learned from the enhanced Belgian E-Learning-oriented IBSC certified "Hydrographic
11:35	Markus Kraft: Merging underwater MBES pointcloud and 360° camera imagery into georeferenced 3D-Model of urban waterways and harbour infrastructure	11:35	Surveying Cat. B" Program Thomas Kersten: DVocean Digital – a surveying vessel for simulating bathymetric measurements
12:00	Pawel Pocwiardowski: CATZOC mapping in layered media	12:00	Panel discussion on standards of competence
12:25	Exhibition / break	12:25	Exhibition / break
13:30	Environmental and habitat mapping (6A) Xavier Lurton: Taking into account more simply the environmental impact of hydrographic echo sounders	13:30	OceanCon 5. Rostock Ocean Convention
13:55	Terje Thorsnes: Hydrographic data from survey design to final habitat maps in the Norwegian seabed mapping programme MAREANO		
14:20	Jens Schneider von Deimling: Unveiling complex seafloor environments: Expanding the potential of multibeam echo sounders (MBES)		
14:45	Iason-Zois Gazis: Machine learning and backscatter for spatial mapping of deep-sea polymetallic nodules		
15:10	Exhibition / break	15:10	Exhibition / break
15:50	Autonomy I (7A) Rui Miguel Cândido: REPMUS: a catalyst for innovation in	15:50	Water column analysis (7B) Peter Feldens: Morphological imprint of fluid seepage in the bodden
16:15	uncrewed hydrography Doreen Thoma: Maritime innovation and new technologies for future navigation and communication	16:15	system of the Baltic Sea Malek Singer: Benthic habitat mapping using airborne topo-bathymetric LiDAR – a case study in Lake Superior
16:40	Mona Lütjens: True autonomy in offshore wind operations	16:40	Katja Richter: Quantification of water turbidity by volumetric
17:05	and maintenance Tom Schmidt: Transfer of autonomous mapping concepts to a small uncrewed surface vehicle	17:05	analysis of LiDAR bathymetry data Arnau Carrera Vinas: Using AUVs for measuring sedimentation processes in reservoirs
17:30	End of session	17:30	End of session

Auditorium B



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Thursday, 7 Nov 2024

Registration and exhibition open

Autonomy II (8A)

Auditorium A

08:30

Auditorium B

09:00	Knut Hartmann: International cooperations on satellite-derived bathymetry - SDBPT		
09:25	Jan Rhomberg-Kauert: Automatic aquatic vegetation detection using airborne bathymetric LiDAR and high dimensional data analysis		
09:50	Andreas Hermann: Hydrography on Fishing Vessels (HyFiVe): A new monitoring system enables cost-effective and scalable ocean monitoring		
10:15	Exhibition / break		
10:45	Optical hydrography II (9A) Ramona Baran: 15 years practical experience in airborne laser bathymetry - project examples for continued sensor development and survey demands on data processing	10:45	OceanCon 5. Rostock Ocean Convention
11:10	Peter Grabbert: Satellite imagery for intelligent hydrographic resource planning		
11:35	Laure-Anne Gueguen: Lab experiment for simultaneous reconstruction of water surface and bottom with a synchronized camera rig		
12:00	Christian Mulsow: Methods for geometric modelling of refraction in photo-bathymetry		
12:25	Exhibition / break	12:25	Exhibition / break
13:30	Quality aspects of MBES measurements (10A) Samuel Deleu: The Belgian Kwinte reference area. Part A: a bathymetric reference area for quality control of shallow water multibeam echo sound		
13:55	Marc Roche: The Belgian Kwinte reference area. Part B: its use for calibrating backscatter levels of shallow water multibeam echo sounders		
14:20	Jean-Guy Nistad: A revaluation of multibeam beam-steering accuracy		
14:45	Bahareh Mohammadivojdan: Enhancing digital bathymetric models by advanced measurement uncertainty analysis		
15:10	End of session		

15:30 - Closing ceremnoy