

HYDROGRAPHIC CONFERENCE

HYDRO 2023

7-9 NOVEMBER 2023

GENOA - ITALY



IFHS
We The Ocean



FINAL PROGRAM



WELCOME LETTER

Esteemed attendees, honoured guests, and dear colleagues—welcome! It is with immense delight that I welcome you to Hydro 2023 in Genoa.

We are gathered here for our International Federation of Hydrographic Societies annual conference, organized this year by the Società Italiana di Idrografia -Italian Hydrographic Society. This gathering serves as a platform where the brightest minds in our industry convene to share what they have learned since we last met in Monaco. To those of you joining us for the first time, we express our gratitude for stepping into our world!

If you are a returning attendee, we extend our heartfelt thanks for your continued presence! Whether you are attending it for the first or the sixteenth time, we deeply value your trust in what we have to offer. We promise to make it worth your while.

Hydrography allows us to understand and wisely exploit the sea, in the broadest term to protect it, safeguard it, keep it free and accessible to all, because “the sea” is just one in the entire world for all countries. It is also the most important strategic infrastructure/asset propelling our progress and development. Only by gaining conscious knowledge/understanding in the hydrography field we can achieve effective, suitable and sustainable progress and development.

In line with previous years, we have put together an energetic collection of seminars, speeches, demos and workshops to fuel your quest for knowledge. Our guest list and speakers' schedule are detailed in the final scientific program. Please take a look and circle the sessions that interest you the most.

In name of all the professional Hydrographers, I would like to thank every National and International Institution, Society, Company, Group of People, and every Single Person who have supported and contributed this successful Conference in Italy! I would also like to thank the person who initiated the creation of the event in Italy.

Interestingly, this Italian adventure-challenge started in Rostock during Hydro 2010 from the 2nd to the 5th of November, and next year the hydro conference will take place in the same city.

Once again, thank you, and a warm welcome to all!

*The Hydro 2023 President
Mr. Aldo Monaca*



ORGANIZERS



The International Federation of Hydrographic Societies – IFHS

The International Federation of Hydrographic Societies (IFHS) is a unique partnership of learned national and regional hydrographic societies that, through its worldwide membership, is able to address every specialism within the hydrographic profession and related disciplines, at all levels of experience and expertise.



The Italian Hydrographic Society – IHS

Based in Catania, Sicily, the IHS is a non-profit enterprise representing leading hydrographic surveying individuals and organisations throughout Italy. A planned growth in membership and wider participation in both domestic and international survey activities as part of the IFHS and its member societies are among its main objectives, according to its president.

ORGANIZING COMMITTEE

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Aldo Monaca

IHS Member - Vice President Italian Hydrographic Society, Italy

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Elio Rubino, *ELETTRA TLC SpA (Italy)*

Giuseppe Valentino, *Sparkle (Italy)*

David Vincentelli, *IFHS President (France)*

7-9 NOVEMBER 2023
GENOA - ITALY



FINAL PROGRAM

Tuesday, November 7th 2023

08.00 REGISTRATIONS

08.30 OPENING CEREMONY

IHS - IFHS

Maurizio Balsamo, *Chairman of IHS (Italy)*

David Vincentelli, *Chairman of IFHS (France)*

Carlo Marchi, *Vice Director of Genoa IIM (Italy)*

Marco Bucci, *Mayor of Genoa (Italy)*

Aldo Monaca, *Chairman of the Organizing Committee (Italy)*

09.00-09.50 KEYNOTES LECTURES

Chairmen: *Alessandro Maiolino (Italy), Aldo Monaca (Italy)*

09.00 Transforming Hydrography: Our Journey Towards 2030

John Nyberg, *IHO Director (Monaco)*

09.20 New technologies, new challenges, new generation of hydrographers, the role of hydrographic societies.

David Vincentelli, *IFHS President (France)*

09.40 QUESTION TIME

9.50-10.10 Oceans & Cables Sponsored Lecture

A world of cables under the sea: telecommunications, energy and security

Alessandro Maiolino, *CTO Oceans & Cables (Italy)*

10.10-11.10 ACADEMIC DISCUSSION

Chairman: *Alessandro Maiolino (Italy)*

The Hydrographer of Tomorrow: Adapting to Technological Advances and Global Challenges

John Nyberg, *IHO Director (Monaco)*

11.10 - 11.40 Coffee Break

11.40-12.00 KEYNOTE LECTURE

Chairman: *Alessandro Maiolino (Italy)*

Citizen Hydrosatial Sciences!

Denis Hains, *CIDCO, President of the Board of Directors (Canada)*

12.00-13.00 ORAL PRESENTATIONS

COLLABORATION AND PARTNERSHIP, QUALITY, ENABLING TECHNOLOGIES AND OCEAN LITERACY

Chairman: *Shepard Smith (United States of America)*

12.00 Journey of collaboration and partnerships for hydrographic surveys in New Zealand

Wilkinson Annette, *Land Information New Zealand (New Zealand)*

12.10 Investigating the synergies between S-100 and the United Nations Sustainability Development Goals for the promotion of S-100-based products

Palma Valentino, *Italian Hydrographic Institute (Italy)*

12.20 Empowering the Remote Workforce: New Workflows to support changing needs of the Hydrosatial Industry
Benjamin Barbier, *Teledyne (France)*
Terje Haga Pedersen, *Kongsberg (Norway)*

12.30 A collaborative approach to ocean and seabed remote monitoring and mapping
Rumson Al, *DeepOcean (Norway)*

12.40 Navigating Complex Waters: Multi-Stakeholder Cooperation for a Maritime Digital Economy
Malte Cesson, *Fugro Germany Marine GmbH (Germany)*

12.50 QUESTION TIME

13.00-14.10 Lunch

14.10-14.30 KEYNOTE LECTURE

Chairman: *Alessandro Maiolino (Italy)*

Predictions for a sustainable and resilient Global Coastal Ocean

Nadia Pinardi, *University of Bologna (Italy)*

14.30-16.00 ORAL PRESENTATIONS

COLLABORATION AND PARTNERSHIP, QUALITY, ENABLING TECHNOLOGIES AND OCEAN LITERACY

Chairman: *Claudio Caporale (Italy)*

14.30 The Nippon Foundation-GEBCO, Seabed 2030 Project Status and Way Forward
Hains Denis, *H2i (Canada)*

14.40 OCTOPUSLE, Bio-inspired active electromagnetic sensor, First sea trials
Bagot Gary, *ELWAVE (France)*

14.50 Remote Hydrography: Status on Regulation
Nicolas Gracieux, *Exail (France)*

15.00 SMART cables for observing the Ocean
Sebastiano Messina, *Poliservizi srl - Oceans and Cables srls (Italy)*

15.10 GeoAI: Enabling Multipurpose Hydrographic Data
Woodlief Matthew, *Environmental System Research Institute (United States Of America)*

15.20 Understanding Shallow Waters Sedimentation Processes and their impact on Navigation Safety, Port Efficiency, and Dredging Operations
Ponce Rafael, *The Hydrographic Society of America (United States Of America)*

15.30 Enabling USVs to use the same equipment as a traditional survey vessel
Mallace Duncan, *XOCEAN (United Kingdom)*

15.40 QUESTION TIME

15.50-16.30 Coffee Break

Wednesday, November 8th 2023

16.30-17.50 ORAL PRESENTATIONS
COLLABORATION AND PARTNERSHIP, QUALITY, ENABLING TECHNOLOGIES AND
OCEAN LITERACY
Chairman: *Denis Hains (Canada)*

- 16.30** Automated solutions in the offshore marine geophysical data processing
Andrijana Horvat, Matko Raguz, Hidrocibalae (Croatia)
- 16.40** Underwater Simultaneous Localization and Mapping (SLAM) with Multi-Layer Refraction Calibration in Shallow Water Experiments
Muhammad Fickrie, HafenCity University Hamburg, Hydrography and Geodesy Department (Germany)
- 16.50** Deepwater Autonomous Inspections: a Viable Way for Data Acquisition
Stefano Meggio, Saipem S.p.A (Italy)
- 17.00** Improvements in target and surface detections
Kuus Pim, Teledyne Marine (The Netherlands)
- 17.10** Authoritative, qualitative and standardized data as foundation for the blue transition
Caporale Claudio, Italian Hydrographic Institute (Italy)
- 17.20** Skilltrade Hydrographic Training (online CAT B)
Stam Johan, Skilltrade (The Netherlands)
- 17.30** Professional Divers and cognitive Functions
Bonanno Valerio, Department of Education Sciences and .R.I.T. Service Center. Bio-Nanotech Research and Innovation Tower, University of Catania (Italy)
- 17.40** QUESTION TIME

18.30-20.30 Welcome Cocktail at Acquario di Genova

09.00-09.40 KEYNOTE LECTURES
Chairman: *Vincenzo Crupi (Italy)*

- 09.00** The countries' connectivity to the web: the submarine cable networks
Elio Rubino, ELETTRA TLC SpA (Italy)
- 09.20** From Autonomous Underwater Vehicle (AUV) to Autonomous Subsea Drone (ASD): expanding the domain of underwater surveys and advanced subsea tasks
Matteo Marchiori, SONSUB SAIPEM (Italy)

09.40-10.20 ORAL PRESENTATIONS
SUSTAINABLE UNDERWATER INFRASTRUCTURES
Chairman: *Vincenzo Crupi (Italy)*

- 09.40** Cybersecurity challenges of Underwater installations
Grosso Sonja, Italian Hydrographic Institute (Italy)
- 09.50** Preventing damage costs to submarine cables: the importance of communication, sharing informations and lessons learnt with local communities
Maiolino Alessandro, Oceans & Cables (Italy)
Scolaro Virgilio, HSE Manager Oceans & Cables (Italy)
- 10.00** Submarine Cables: Sustainable Underwater Infrastructures
Passanisi Vincenzo, Department of Engineering, University of Messina (Italy)
- 10.10** QUESTION TIME
- 10.20-11.00** Coffee Break

11.00-12.00 LECTURES SPONSORED BY ESRI

- 11.00-11.30** Establishing a Hydrosatial System and the S-100 Influence
Rafael Ponce, Principal Maritime Consultant and Practice Lead
- 11.30-12.00** The Paper to Digital Transformation
Automating paper chart production to make room for the S-101 transition
Geoff Dean, Senior Business Development Manager, Maritime

12.00-12.30 SPONSORED SESSION BY FUGRO

Fugro RAMMS Lidar Unveiled: Leading the Way in Coastal Ecosystem Discovery
Mark MacDonald, Director Marine Hydrography Americas / RAMMS Product Owner
Benoit Cajelot, Coastal Resilience Manager Europe Africa
Pooja Mahapatra, Global Lead - Geospatial

12.30-12.50 KEYNOTE LECTURE
Chairman: *Vincenzo Crupi (Italy)*

Submarine digital infrastructure: the Cloud under the sea
Giuseppe Valentino, Sparkle (Italy)



12.50-13.10 POSTER PRESENTATION & EXHIBITION VISIT

- P1 **From data provision (SDI) to knowledge creation (SKI): the future for marine geospatial information**
Milli Manuela, *Italian Hydrographic Institute (Italy)*
- P2 **An assessment of coastal erosion and human pressure in Cap-Haïtien (Haiti)**
Picco Paola, *Italian Hydrographic Institute (Italy)*
- P3 **EMODnet Seabed Habitats Products: EUSeaMap, EOVs and Composite Products**
McGrath Fergal, *Marine Institute/ INFOMAR (Ireland)*
- P4 **Advancing Knowledge of the Antarctic Seafloor through Multibeam Data Collection Along Research Vessel Routes**
Andrea Varzi, *National Institute of Oceanography and Applied Geophysics - OGS (Italy)*
- P5 **Understanding the influence of kelps on arctic sea currents: Implications for ecosystem resilience**
Kosek Klaudia, *Institute of Oceanology Polish Academy of Sciences (Poland)*
- P6 **Thinking towards securely in infrastrutture**
Barbagallo Evelyn Carmen, *University of Messina - Engineering department (Italy)*

13.10-13.50 Lunch

13.50-15.40 ORAL PRESENTATIONS
COASTAL RESILIENCE
Chairman: *Giovanni Randazzo (Italy)*

- 13.50 **Coastal Resilience - Maintaining Long-Term Records with Emerging Technologies**
Ambroziak Tirren, *Oceanwise ltd (United Kingdom)*
- 14.00 **Coastal Monitoring and Harbor Surveying by Use of Airborne LiDAR Bathymetry**
Fontana Thomas, *Alto Drones GmbH (Italy)*
- 14.10 **Evaluation of ICESat-2 satellite based LiDAR penetration in shallow waters for bathymetric data acquisition: Case study of the Venice Lagoon**
Nardini Roberto, *Italian Hydrographic Institute - Italian Navy, Marine Geophysical and Oceanographic department (Italy)*
- 14.20 **Long-term coastal water monitoring by dual-polarimetric Sentinel-1 SAR imagery**
Verlanti Anna, *University of Cagliari (Italy)*
- 14.30 **Towards a Digital Twin of the coast - spatio-temporal analytics of coastal processes**
Kim Knauer, *EOMAP (Germany)*
Mona Reithmeier, *EOMAP (Germany)*
- 14.40 **Monitoring Ross Ice Shelf Area Extension Variation around Antarctica**
Khalil Mohamad, *University of Genova, Department of mechanical, energy, management, and transport engineering - DIME (Italy)*
- 14.50 **Multi-disciplinary Survey of Kiribati Outer Islands**
Peyton Derrick, *IIC Technologies (Canada)*
- 15.00 **LiDAR Survey - Inshore Bathy Survey**
Zaquini Mirko, *SAIPEM (Italy)*
- 15.10 **Enhancing Coastal Resilience: Fast, accurate and sustainable Airborne Lidar Bathymetry, applied to vulnerable islands**
Mahapatra Pooja, *FUGRO (The Netherlands)*
- 15.20 **Bridging the Gap: Integrating Topographic and Bathymetric Data for Comprehensive Coastal Analysis**
Karak Ali Alakbar, *Geomatics Laboratory, Department of Civil, Chemical and Environmental Engineering (DICCA), University of Genoa (Italy)*
- 15.30 **QUESTION TIME**

16.00-18.00 *Nave Galatea - Italian Navy Hydro-Oceanographic ship*
Free Guided Tour upon reservation

18.00-20.00 *Networking Dinner at Magazzini del Cotone (Congress Venue)*

Thursday, November 9th 2023

09.00-09.20 KEYNOTE LECTURE
Chairman: *Marco Filippone (Italy)*

Ocean Exploration: a new challenge for the Energy Transition
Giovanni Ranieri, *CEO Next Geosolution SpA (Italy)*

09.20-10.10 ORAL PRESENTATIONS
OCEAN EXPLORATION
Chairman: *Marco Filippone (Italy)*

- 09.20 **Exploration of hydrothermal venting sites and sulphide deposits using deep-towed multibeam echo sounder data**
Dufek Tanja, *HafenCity University Hamburg (Germany)*
- 09.30 **The complexity of measuring sea-ice thickness with acoustic sensors**
Werner Ellen, *HafenCity Universität Hamburg (Germany)*
- 09.40 **Ocean exploration from small platforms using compact multibeam systems**
Uni Bull, *NORBIT Subsea (Norway)*
- 09.50 **Building space-based hydrographic survey capabilities through collaborative projects and international partnerships**
Goodrich Kyle, *Tcarta (United States Of America)*
- 10.00 **QUESTION TIME**

10.20-11.20 WORKSHOP SPONSORED BY ESRI
PATTERNS AND PRACTICES FOR BUILDING MSDI WITH WebGIS

Speakers:
Matt Woodlief, *Senior Solution Engineer, Esri (USA)*
Rafael Ponce, *Principal Maritime Consultant and Practice Lead, ESRI (USA)*
Geoff Dean, *Senior Business Development Manager, Maritime, ESRI (USA)*

11.20 - 11.50 Coffee Break

11.50-12.10 KEYNOTE LECTURE
Chairman: *Giovanni Ranieri (Italy)*

Switching on the light - hydrography's key role in reversing the ocean's declining health
Louis Demargne, *IOC UNESCO (France)*

12.10-12.40	ORAL PRESENTATIONS BLUE TRANSITION Chairman: <i>Giovanni Ranieri (Italy)</i>
12.10	From Italian Hydrographic Office FIG/IHO/ICA Cat. A and Cat. B course to the new challenges of the Blue Transition - talent, skills and energy of the future <i>Taccardi Gabriella, Italian Hydrographic Institute (Italy)</i>
12.20	From seabed to cloud, groundtruthing seagrass data <i>Brocke Hannah, Plan Blue (Germany)</i>
12.30	QUESTION TIME

12.40 **IFHS Student Award**

13.00 **CLOSING CEREMONY**
 IHS - IFHS
 Handover to the next Hydro 2024; IHS President, David Vincentelli IFHS



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With more than 200 years of history, Leica Geosystems, part of Hexagon, is the trusted supplier of premium sensors, software and services. Delivering value every day to professionals in surveying, construction, infrastructure, mining, mapping and other geospatial content-dependent industries, Leica Geosystems leads the industry with innovative solutions to empower our autonomous future. technology partner for our customers. Our strong technology backbone within hydro acoustics, robotics, inertial navigation, positioning, laser, radar, and communication, blended with deep application knowhow and software gives us the insights and drive to develop new products and solutions for our customers to excel and positioning them for a sustainable tomorrow. Pairing our hardware design and sensor knowledge with intelligent software yields unmatched solutions for multiple areas. The joy of creating is in Kongsberg Discovery's' DNA



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Kongsberg Discovery has a long history of providing products, systems, and solutions for commercial and non-commercial customers in the broader Ocean Space, encompassing subsea, offshore, merchant, fishery, naval, onshore and space applications. We are constantly working alongside industry, authorities, institutes, and other key stakeholders to understand the evolving nature of their requirements and needs. With decades of in-house competence and experience, we are a trusted technology partner for our customers. Our strong technology backbone within hydro acoustics, robotics, inertial navigation, positioning, laser, radar, and communication, blended with deep application knowhow and software gives us the insights and drive to develop new products and solutions for our customers to excel and positioning them for a sustainable tomorrow. Pairing our hardware design and sensor knowledge with intelligent software yields unmatched solutions for multiple areas. The joy of creating is in Kongsberg Discovery's' DNA



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Bronze



AML designs and builds ocean sensing solutions that help our customers remove the unpredictability - economic and technical - from their survey operations. This includes sensors, instruments, and deployment systems for hydrographic customers world wide. We also manufacture the MVP (Moving Vessel Profiler), the only underway profiling system in the world that saves money, increases survey quality, and improves onboard safety. AML has more than 30 years experience with underway systems, having sold and installed hundreds of MVP systems



NORBIT Subsea develops and manufactures wideband high-resolution multibeam sonar systems for applications in the hydrographic, security, energy, and dredging markets. Our solutions are based on the latest in analog and digital signal processing. NORBIT Subsea is part of NORBIT Oceans offering tailored technology solutions to global maritime markets consisting of 5 segments including Subsea and Security: offers a complete portfolio of sensing solutions for detecting waterside, Aqua: Delivering solutions and innovative sensors for the aquaculture industry, Aptomar: provider of integrated situation awareness and environmental monitoring solutions and Connect: Supplier of customized cable assemblies, electromechanical box builds and operational solutions.

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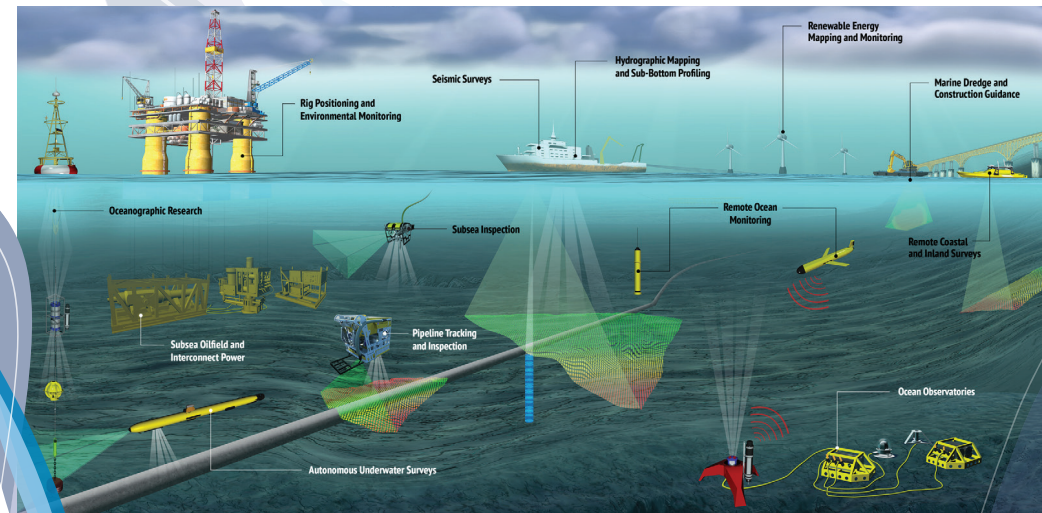
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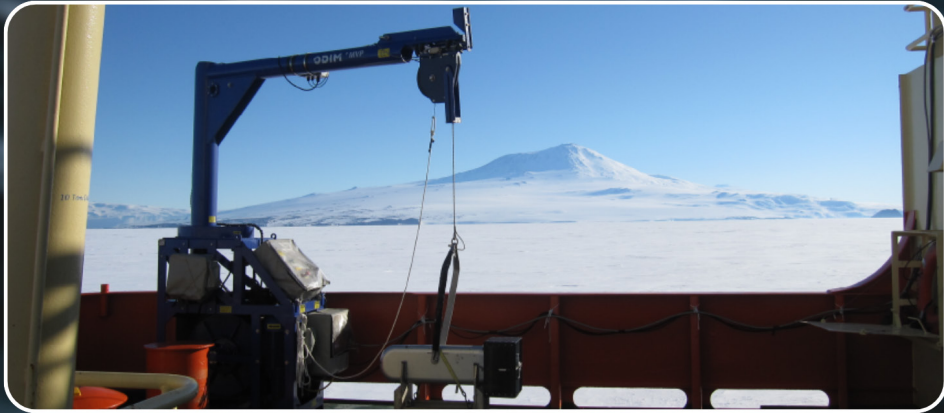
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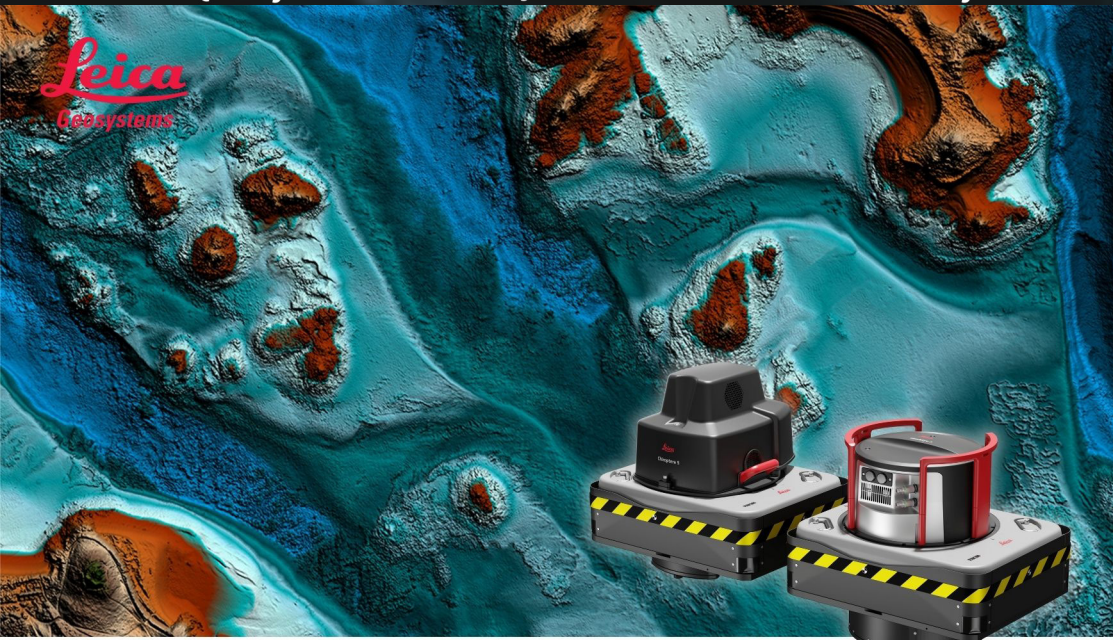
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GENERAL INFO

TECHNICAL VISIT

Technical visit of Nave Galatea - Italian Navy Hydro-Oceanographic ship

Wednesday 8th November - 16.00-18.00

RESERVATION NEEDED

Duration: 25 minutes on time slots

Nave Galatea, one of the Hydro-Oceanographic ships belonging to the Italian Navy, is the main “at sea” work tool for the National Hydrographic Service, very often in synergy with the university world and scientific and environmental research centers.

Due to limited space on board - max. 15 pax at a time – tours will be conducted in 30-minutes intervals. The Organizing Secretariat will assign you a specific time slot that will be communicated onsite, at the registration desk.

SOCIAL EVENTS

HYDRO2023 is glad to offer two social moments. You're invited to join us to:

Welcome Cocktail

Tuesday 7th November - 18.30-20.30

Venue: Acquario di Genova - Sala Squali

A special toast in an exceptional location.

Access reserved for Conference participants only.
Your personal badge will be required at the entrance.

Networking Dinner

Wednesday 8th November - 18.00-20.00

Venue: Magazzini del Cotone (Congress venue) - Exhibition Area

A friendly happy hour to share all together.

Access reserved for Conference participants only.
Your personal badge will be required at the entrance.

CONGRESS VENUE

Porto Antico di Genova – Centro Congressi

Calata Molo Vecchio 15

16128 Genova, Italy

www.portoantico.it



ORGANIZING SECRETARIAT

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Triumph Italy S.r.l

Via Lucilio 60, 00136 Rome, Italy

www.triumphgroupinternational.com

info.italy@thetriumph.com | +39 06 35530

