









PRELIMINARY PROGRAMME

*A more detailed programme will follow.
The programme is subject to change at short notice*

***Be inspired. Share your views.
Network with industry colleagues***

WORKSHOPS

TIME	WORKSHOP 1	WORKSHOP 2	WORKSHOP 3	WORKSHOP 4	WORKSHOP 5	WORKSHOP 6
12:00 - 13:30						
13:45 - 15:15						
15:30 - 17:00						

Workshop 1 - SIS 5.0, K-Controller and new datagram format

Terje Haga Pedersen

Workshop 2 - EM Legacy Products

Sverre Tetlie / Kjetil Jensen

Workshop 3 - Best Practice Using PHS System

Kjetil Jensen

Workshop 4 - HiSAS

Espen Reinertsen

Workshop 5 - Mapping Cloud, Data Storage and Processing

Sverre Tetlie / Audun Berg

Workshop 6 - Seabed Image and Backscatter Calibration

Kjetil Jensen



EVENING AND SOCIAL EVENTS

ICE BREAKER PARTY - The Pullman Hotel
Time & Details TBC

Note: The papers and speakers are subject to change at short notice

WELCOME TO FEMME - OFFICIAL OPENING

TIME	AGENDA
08:30	CONFERENCE OPENING AND WELCOME Bjørn Jalving, Kongsberg Maritime
08:35	OPENING ADDRESS Monsieur Bruno Frachon - Chief Hydrographer of France Service Hydrographique et Océanographique de la Marine - SHOM
09:00	VIDEO - TBC Dr. Mathias Jonas - Secretary General International Hydrographic organization (IHO)
09:10	TRENDS IN OCEAN MAPPING Bjørn Jalving, Kongsberg Maritime
09:30	COFFEE BREAK (15 minutes)

SESSION 1 - SEABED MAPPING

TIME	PAPER TITLE	SPEAKER / AUTHOR
09:45	Seabed 2030 - Building a Global Ocean Map through International Collaboration	Speaker: Vicki Ferrini Columbia University's Lamont-Doherty Earth Observatory Authors: Ferrini V.
10:10	Learnings and recommendations from the 950,000km ² Gulf of Mexico deep water mapping survey comparing 30khz and 12khz systems	Speaker: Dan Orange ONE (Oro Negro Exploration LLC) Authors: Orange D.L., Decker J., Teas P. A.
10:35	The evolution of multibeam. From simple echo sounders to complex devices for multi-purpose, multi spectral, multi dimensional, cross disciplines studies	Speaker: Fabio Sacchetti Irish Marine Institute Authors: Sacchetti F.
11:00	TBD	TBD
11:25	Integration of the new KM's MBES EM304 on RV Thalassa	Speaker: Briec Créan IFREMER Authors: Créan B.
11:50	First results of EM304 sea trials on board RV Thalassa	Speaker: Jean-Marie Augustin IFREMER DFO/NSE/ASTI Authors: Augustin J.M (IFREMER DFO/NSE/ASTI) and Bisquay H. (GENAVIR DEC/QAE)
12:15	LUNCH BREAK (60 minutes)	

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SESSION 2 - OCEANOGRAPHY

TIME	PAPER TITLE	SPEAKER / AUTHOR
13:15	MBES evaluation of the direct and indirect impact of sand extraction in the Belgian part of the North Sea	Speakers: Marc Roche & Koen Degrendele Federal Public Service Economy of Belgium Authors: Roche M., Degrendele K.
13:40	Multibeam water column imaging - a "sound" tool for ocean biomass assessment	Speaker: Wilhelm Weinrebe GEOMAR Authors: Weinrebe W
14:05	Analysis of the radiated sound field of deep water multibeam echo sounders using an underwater hydrophone array.	Speaker: Michael J. Smith CCOM / University of New Hampshire Authors: Smith M.J., Weber T.C., Mayer L.A., Lyons A.P., Schmidt V.E., (CCOM / UNH), Lurton X. (IF-REMER)
14:30	Quantifying the impact of Internal Wave activity on multi-beam bathymetry.	Speaker: John H. Clarke CCOM / University of New Hampshire Authors: Clarke J. H.
15:00	COFFEE BREAK (20 minutes)	

SESSION 3 - BACKSCATTER

TIME	PAPER TITLE	SPEAKER / AUTHOR
15:20	Interest of multibeam echosounder calibration for seafloor backscatter measurements: a case study and a practical methodology	Speaker: Xavier Lurton IFREMER Authors: Lurton X., Augustin J.M., Berger L., Fezzani R., Bouffant N. Le
15:45	Backscatter calibration for MBES	Speaker: Julian Le Deunf SHOM Authors: Deunf J Le., Vrignaud C. (SHOM), Lurton X, Berger L., Augustin J.M (IFREMER)
16:10	Comparing seafloor backscatter from an EM302 MBES and a 45°-tilted EK60 split-beam SBES: Is cross calibration a valid method?	Speaker: Arne Pallentin National Institute of Water and Atmospheric Research (NIWA) Authors: Pallentin A., Ldroit Y., Lamarche G.
16:35	Exploring Field Backscatter Calibration for Kongsberg EM2040 Systems	Shelley Devereaux NOAA Office of Coast Survey Authors: Devereaux S.
17:00	Unambiguous Radiation Pattern Extraction Method and its Application for Multisector Multibeam Sonars	Speaker: Anand D. Hiroji HSRC/University of Southern Mississippi Authors: Hiroji Anand D. (HSRC/USM), Clarke J.H.(CCOM/UNH)
17:25	DAY CLOSED	



EVENING AND SOCIAL EVENTS

DINNER PARTY - La Brasserie Bordelaise.
Time & Details TBC

Note: The papers and speakers are subject to change at short notice

SESSION 4 - DATA QUALITY ASSURANCE

TIME	PAPER TITLE	SPEAKER / AUTHOR
08:30	Multibeam Advisory Committee (MAC): Looking back on 7 yearS of multibeam echo sounder system acceptance testing and quality assurance visits for the ships of the U.S. Academic Fleet.	Speaker: Paul Johnson CCOM / University of New Hampshire Authors: Johnson P. (CCOM/UNH), Ferrini V. (Columbia University's Lamont-Doherty Earth Observatory), Jerram K. (CCOM/UNH)
08:55	Multibeam Data Quality assurance at Genavir	Speaker: Hervé Bisquay GENAVIR Authors: Bisquay H.
09:20	TBD	TBD
09:45	Deepwater High-Resolution Seep Hunting – Understanding the Limits and Tradeoffs between Multibeam Mapping Coverage and Data Quality	Speaker: Garret A. Mitchell Fugro USA Marine, Inc Authors: Mitchell G.A.
10:10	COFFEE BREAK (20 minutes)	

SESSION 5 - INSPECTION SURVEY

TIME	PAPER TITLE	SPEAKER / AUTHOR
10:30	(1) BGR HOMESIDE – A Kongsberg EM 2040 based deep towed multibeam echo sounder (2) Imaging of non-gas hydrothermal plumes in the water column using a deep-towed EM2040: examples from the Indian Ocean	Speakers: Ralf Freitag (1) Henning Wedemeyer (2) The German Federal Institute for Geosciences and Natural Resources - BGR Authors: Wedemeyer H. (1), Freitag R. (2)
11:00	Applying AUV for regional seabed and habitat mapping, coral damage assessment and location of toxic waste - experiences from the Norwegian seabed mapping program MAREANO	Speaker: Terje Thorsnes Geological Survey of Norway Authors: Thorsnes T. and the MAREANO team
11:25	PSA Dry Quay Wall Construction - Panama	Speaker: Steven Bontekoe Jan De Nul N.V Authors: Bontekoe S., Winne J. De, Evenepoel J.
11:50	First sea trials with EM2040 multibeam sounder innovative integration on Hybrid ROV Ariane	Speaker: Lucie Somaglino IFREMER Authors: Somaglino L., Jaussaud P., Piasco R., Raugel E.
12:15	LUNCH (60 mins)	
13:15	PHOTO SESSION (45 mins)	

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SESSION 6 - SEABED MAPPING

TIME	PAPER TITLE	SPEAKER / AUTHOR
13:45	EM2040P – MBES Portable solution in Pacific remote areas	Speaker: Christophe Vrignaud SHOM Authors: Vrignaud C, Deunf J. le, Gléau M. le
14:10	Quantitative geomorphology based on multibeam bathymetry - insights from the new seafloor mapping of the Israeli Exclusive Economic Zone	Speaker: Mor Kanari Israel Oceanographic & Limnological Research Authors: Kanari M., Ketter T., Tibor G., Hall JK., Lang, G. and Schattner U.
14:35	The ultra-high resolution mapping of tidal channels in the Venice Lagoon, Italy	Speaker: Fantina Madricardo CNR ISMAR Authors: Madricardo F.
15:00	Amphibious Coastal and Nearshore Habitat Mapping Following a Massive Earthquake in Kaikōura, New Zealand	Speaker: David Donohue Ixblue Authors: Donohue D.
15:25	Surveying coastal waters in the Caribbean with a deep water multibeam - Initial results	Speaker: Henk de Haas NIOZ Royal Netherlands Institute for Sea Research Authors: Haas H. de
15:50	The use of multiple AUV's for efficient seabed mapping	Speaker: Jan Arvid Ingulfsen Swire Seabed Authors: Ingulfsen J.
16:15	CONFERENCE CLOSING - Bjørn Jalving Kongsberg Maritime	



EVENING AND SOCIAL EVENTS

GALA DINNER - Château Smith Haut Lafitte
Time & Details TBC

WORKSHOPS

TIME	WORKSHOP 7	WORKSHOP 8	WORKSHOP 9	WORKSHOP 10
09:00 - 11:00				
11:15 - 13:00				

Workshop 7 - Seapath, MRU and MBR

Vidar Bjørkedal

Workshop 8 - Unmanned Hydrographic Systems

Richard Mills

Workshop 9 - Sub-Bottom Profilers from Kongsberg Maritime

Richard Dowdeswell / Sverre Tetlie

Workshop 10 - Seabed Image and Backscatter Calibration

Kjetil Jensen
