



## PRELIMINARY PROGRAMME HYDRO12, DRAFT OF 18 OCTOBER

**Mon 12 Nov, Entrance 1**

14:00 information & registration desk opens  
 14:00 student activities start  
 18:00 student activities end  
 19:30 information & registration desk closes

**Mon 12 Nov, Grand Ballroom**

19:30 **icebreaker starts**

**Mon 12 Nov, Theatre**

18:00 instructions for session chairpersons  
 19:00 upload facility opens for Tuesday speakers  
 21:00 upload facility closes for Tuesday speakers

**Mon 12 Nov, Main deck office room**

QPS workshop

**Mon 12 Nov, Sun Room**

SevenCs ENC demonstration

**Mon 12 Nov, 2e Katendrechtse Haven (across the parking lot)**

14:00 demonstrations for students MS Scheurrak (Rijkswaterstaat)  
 18:00 *end of business*

**Tue 13 Nov, Theatre**

9:00 <u>Opening session welcome</u>		Thaïenne van Dijk (Chairwoman Hydro12 OC)	
9:10 IFHS introduction		Aubrey Price (Director IFHS)	
9:17 HSB introduction		Leeke van der Poel (Chairman HSB)	
9:25 <b>opening address</b>		Robert Ward (President IHO)	
9:50 intermezzo	The story of SS Rotterdam	TBA	
10:05 <b>keynote 1</b>	<b>From seafloor geomorphology to predictive habitat mapping ...</b>	Peter Harris (Geoscience Australia)	paper 70
10:45 exhibition opening		Rob Karis	
10:55 <i>break</i>			
11:15 activity pitches	90 second pitches of tutorials, demonstrations, and excursions	Simon Salter, Owen Cantrill, Frank Köster, Jani Pötrönen	
11:35 <u>session 1 welcome</u>	<u>Careful marine planning I</u>	Rob van Ree (session chair)	
11:40 oral 1.1	Beyond bathymetry - coastal marine mapping	Travis Mason (National Oceanography Centre)	paper 43
12:00 oral 1.2	Suitability mapping for renewable energy potential in the North Sea ...	Alain de Wulf (University of Ghent)	paper 58
12:20 oral 1.3	Flexible Disposal Strategy ...	Davy Depreiter (IMDC)	paper 30
12:40 oral 1.4	Managing bathymetric data in a hydrographic survey company ...	Duncan Mallace (NetSurvey)	paper 56
13:00 <i>lunch break</i>			
14:00 <u>session 2 welcome</u>	<u>Smart data management</u>	Terje Thorsnes (session chair)	
14:05 oral 2.1	High precision hydrography in Canada, ...	Richard Sanfaçon (Canadian Hydrographic Service)	paper 04
14:25 oral 2.2	Assessing the Impact of INSPIRE on Related EU Marine Directives	Roger Longhorn (EUCC)	paper 40
14:45 oral 2.3	Key elements of Remote Offshore Survey Operations	Boudewijn Possel (Fugro)	paper 41
15:05 oral 2.4	Maritime Source Data Collection, Management and Integration	John Klippen (Jeppesen)	paper 55
15:25 oral 2.5	The Development of New Data Quality Visualisation Methods ...	Sam Harper (UKHO)	
15:45 <i>break</i>			
16:15 <u>session 3 welcome</u>	<u>Innovations in processing techniques</u>	Maarten-Jan Theijs (session chair)	
16:20 oral 3.1	Is Multibeam Water Column Data Really Worth the Disk Space?	Lindsay Gee (QPS)	paper 18
16:40 oral 3.2	Calibration of vessel mounted LIDAR	Nicolas Seube (ENSTA)	paper 60
17:00 oral 3.3	The Progression of Multi-Dimensional Water Column Analysis ...	Andrew Hoggarth (CARIS)	paper 22
17:20 oral 3.4	River bed classification using multibeam echosounder backscatter data	Niels Kinneging (Rijkswaterstaat)	paper 21
17:40 oral 3.5	Grid Models versus TIN ...	Alain de Wulf (University of Ghent)	paper 64
18:00 <i>end of business</i>			

**Tue 13 Nov, Queen's lounge, Atlantic Promenade, Glass Enclosed Promenade**

10:55 exhibition opens  
 18:00 *end of business*

**Tue 13 Nov, Main deck office room**

14:00 tutorial 1	How deep will the water be?	Simon Salter (Chersoft)	paper 08
14:45 <i>break</i>			
15:00 tutorial 2	The CARIS Engineering Analysis Module ...	Dagmar Kuil (CARIS)	paper 29
15:45 <i>break</i>			
16:00 tutorial 3	Open IHO Data Quality Working Group meeting	Leendert Dorst (vice-chairman)	
17:00 <i>break</i>			
17:15 tutorial 4	High Resolution Multibeam Survey and Mobile Laser Scanning ...	Jani Pötrönen (Meritaito)	paper 39
18:00 <i>end of business</i>			

**Tue 13 Nov, 2e Katendrechtse Haven (across the parking lot)**

14:00 demonstrations 1 survey vessels of Braveheart Shipping; Geometius; Stema Systems; Port of Rotterdam; Seabed  
 18:00 *end of business*

**Tue 13 Nov, excursions**

10:00 partner programme departs  
 18:00 partner programme returns

**Wed 14 Nov, Theatre**

9:00 <u>session 4 welcome</u>	<u>Accurate hydrodynamics I</u>	Leendert Dorst (session chair)	
9:05 <b>keynote 2</b>	<b>40 years back and forth</b>	Steve Shipman (retired)	
9:35 oral 4.1	Lowest Astronomical Tide in the North Sea ...	Cornelis Slobbe (Delft University of Technology)	paper 17
9:55 oral 4.2	Accurate water levels using PREMO ...	Micheline Hounjet (Deltares)	paper 52
10:15 oral 4.3	Results of operational sea-wave monitoring with radar gauges	Sebastian Rütten (BfG)	paper 23
10:35 poster pitches	90 second pitches of today's poster presentations	Richard Sanfaçon, John Klippen, José Bartolomeu Ferreira Fontes, Lars Schiller, Nicolas Seube, Axel Annaert	
10:45 <i>break</i>			
11:15 <u>session 5 welcome</u>	<u>Geophysics of the marine environment I</u>	Vera van Lancker (session chair)	
11:20 oral 5.1	Fluid mud density determination in navigational channels	Stijn Claeys (Flanders Hydraulic Research) & Ben Dierikx (Rijkswaterstaat)	paper 32
11:40 oral 5.2	Sediment waves: geohazard or geofeature?	Victoria Putans (P.P. Shirshov Institute of Oceanology RAS)	paper 42
12:00 oral 5.3	Quantified sea-bed dynamics of the Netherlands Continental Shelf ...	Sytze van Heteren (TNO)	paper 66
12:20 oral 5.4	Monitoring of silt content in sediments off the Dutch Coast	Koos de Vries (Medusa)	paper 01
12:40 oral 5.5	Application of high resolution acoustics ...	Coen Werner (Stema Systems)	paper 24
13:00 <i>lunch break</i>			
14:00 <u>session 6 welcome</u>	<u>Subsea positioning</u>	Wilbert Brink (session chair)	
14:05 <b>keynote 3</b>	<b>Is Hydrography keeping up in the Facebook world of today?</b>	Mark Heine (Fugro)	
14:45 oral 6.1	Innovative Positioning System Integration ...	Bart-Jan Ruesink (Geocon)	paper 16
15:05 oral 6.2	INS aided subsurface positioning for ROV surveys	Michiel van de Munt (Allseas)	paper 45
15:25 oral 6.3	Positioning Small AUVs for Deeper Water Surveys ...	Tom Hiller (Teledyne)	paper 38
15:45 <i>break</i>			

16:15 <u>session 7 welcome</u>	<u>Innovations in acquisition techniques</u>	Alain de Wulf (session chair)	
16:20 oral 7.1	Satellite remote sensing and coastal sediment monitoring ...	Henry Odunsi (Earth Info Services)	paper 02
16:40 oral 7.2	Utility of Airborne Lidar Bathymetry in Extreme ... Environments ...	Don Ventura (Fugro)	paper 69
17:00 oral 7.3	Hydrodynamic data from radar observations	Caroline Gautier (Deltares)	paper 31
17:20 oral 7.4	Deepwater Dredging and Maintenance in the Offshore industry	Ellen Stuijbergen (RESON)	paper 59
17:40 oral 7.5	Determining rock quantities using swathe techniques on Maasvlakte 2	Huibert-Jan Lekkerkerk (Port of Rotterdam)	paper 19
18:00 <i>end of business</i>			
<b>Wed 14 Nov, Queen's lounge, Atlantic Promenade, Glass Enclosed Promenade</b>			
9:00 exhibition opens			
10:45 poster 1.1	Backscatter "From ping to Database" ...	Richard Sanfaçon (Canadian Hydrographic Service)	paper 05
10:45 poster 1.2	Digital Mariners Routeing Guide ...	John Klippen (Jeppesen)	paper 27
10:45 poster 1.3	Deepening of the Port of Santos – Brazil ...	José Bartolomeu Ferreira Fontes (Consórcio Draga Brasil)	paper 34
10:45 poster 1.4	A Comprehensive Definition and Systematic Subdivision of Hydrography	Lars Schiller (HafenCity University Hamburg)	paper 49
10:45 poster 1.5	International Cooperation in Education ...	Nicolas Seube (ENSTA)	paper 63
10:45 poster 1.6	Hydrographic Training in Belgium	Axel Annaert (Antwerp Maritime Academy)	paper 65
18:00 <i>end of business</i>			
<b>Wed 14 Nov, Main deck office room</b>			
15:00 tutorial 8	Integrated Bathymetric Data Management ...	Frank Köster (Hamburg Port Authority)	paper 33
15:45 <i>break</i>			
<b>Wed 14 Nov, 2e Katendrechtse Haven (across the parking lot)</b>			
10:00 demonstrations 1	survey vessels of Braveheart Shipping; Geometius; Stema Systems; Port of Rotterdam; Seabed		
13:00 <i>lunch break</i>			
15:00 demonstrations 3	survey vessels of Braveheart Shipping; Geometius; Stema Systems; Port of Rotterdam; Seabed		
18:00 <i>end of business</i>			
<b>Wed 14 Nov, excursions</b>			
10:00 partner programme departs			
18:00 partner programme returns			
<b>Wed 14 Nov, Odyssey Room</b>			
19:00 conference dinner			
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<b>Thu 15 Nov, Theatre</b>			
9:00 <u>session 8 welcome</u>	<u>Geophysics of the marine environment II</u>	Thaïenne van Dijk (session chair)	
9:05 <b>keynote 4</b>	<b>MAREANO - an integrated national seabed mapping program ...</b>	Terje Thorsnes (Geological Survey of Norway)	
9:45 oral 8.1	Sediment vs topographic micro-roughness ...	Ruggero Capperucci (University of Bremen)	paper 47
10:05 oral 8.2	High-resolution geophysical survey ...	Ane Wiersma (Deltares)	paper 48
10:25 oral 8.3	A lithological and morphological map ...	Mieke Mathys (IMDC)	paper 67
10:45 poster pitches	90 second pitches of today's poster presentations	José Bartolomeu Ferreira Fontes, John Klippen, Mark Bollen, Tom Hiller, Hugh Parker, Jesus Cisneros Aguirre	
10:55 <i>break</i>			
11:15 <u>session 9 welcome</u>	<u>Accurate hydrodynamics II</u>	Niels Kinneging (session chair)	
11:20 oral 9.1	The SBW Field Measurement Programme	Bart Spelt (Rijkswaterstaat)	paper 13
11:40 oral 9.2	High resolution topo-bathymetric and flow measurements ...	Yves Plancke (Antwerp Maritime Academy)	paper 25
12:00 oral 9.3	Creating a Current Atlas for the Port of Zeebrugge	Jeroen Aardoom (Aqua Vision BV)	paper 12
12:20 oral 9.4	Computer-aided quality assurance ...	Hartmut Hein (BfG)	paper 28
12:40 oral 9.5	A New Coastal Flood Forecasting System for the Netherlands	Simone de Kleermaeker (Deltares)	paper 44
13:00 <i>lunch break</i>			
14:00 <u>session 10 welcome</u>	<u>Hydrographic training &amp; Careful marine planning II</u>	Steve Shipman (session chair)	
14:05 oral 10.1	Inland Electronic Navigation Chart production ...	Jasmine Dumollin (Agency for Maritime and Coastal Services)	paper 20
14:25 oral 10.2	Degrees of success ...	Richard Thain (Plymouth University)	paper 07
14:45 oral 10.3	A new framework for the FIG/IHO/ICA Standards of Competence ...	Gordon Johnston (Venture Geomatics)	paper 53
15:05 oral 10.4	Recruiting and Training for the Future ...	Derrick Peyton (IIC Technologies)	paper 09
15:25 oral 10.5	Towards more attractivity for hydrographic surveying course ...	Nicolas Seube (ENSTA)	paper 61
15:45 <i>end of business</i>			
<b>Thu 15 Nov, Grand Ballroom</b>			
16:15 <u>Closing ceremony welcome</u>		Thaïenne van Dijk (Chairwoman Hydro12 OC)	
16:20 un événement joyeux			
16:30 Best student paper award		Leeke van der Poel (Chairman HSB)	
16:35 Best paper award		Leeke van der Poel (Chairman HSB)	
16:40 announcement of Hydro14		Aubrey Price (Director IFHS)	
16:50 farewell		Thaïenne van Dijk (Chairwoman Hydro12 OC)	
16:55 festive closure			
17:30 <i>end of business</i>			
<b>Thu 15 Nov, Queen's lounge, Atlantic Promenade, Glass Enclosed Promenade</b>			
9:00 exhibition opens			
10:45 poster 2.1	Survey and Dredge in ... Volcanic open sea Island ...	José Bartolomeu Ferreira Fontes (Consórcio Draga Brasil)	
10:45 poster 2.2	NHS – MINTEC, Print on demand system	John Klippen (Jeppesen)	
10:45 poster 2.3	Plume Measuring Techniques for Dredging Works: the SiltProfiler	Mark Bollen (IMDC)	
10:45 poster 2.4	Measuring Bathymetric Uncertainty of the Edgetech 4600 Sonar	Lisa Nicole Brisson (EdgeTech)	paper 37
10:45 poster 2.5	System integration of LiDAR Bathymetry sensors ...	Hugh Parker (Fugro)	
10:45 poster 2.6	Observations of inertial oscillations affected by mesoscale activity ...	Jesus Cisneros Aguirre (University of Las Palmas)	
16:15 <i>end of business</i>			
<b>Thu 15 Nov, Main deck office room</b>			
9:30 Open course for hydrographic students	August Magnusson (Atlas Services)		
11:30 <i>end</i>			
<b>Thu 15 Nov, 2e Katendrechtse Haven (across the parking lot)</b>			
10:00 demonstrations 4	survey vessels of Braveheart Shipping; Geometius; Stema Systems; Port of Rotterdam; Seabed		
13:00 <i>lunch break</i>			
14:00 demonstrations 5	survey vessels of Braveheart Shipping; Geometius; Stema Systems; Port of Rotterdam; Seabed		
16:15 <i>end of business</i>			
<b>Thu 15 Nov, excursions</b>			
10:00 partner programme departs			
16:15 partner programme returns			
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<b>Fri 16 Nov, Main deck office room</b>			
	NSHC Resurvey Working Group meeting		
<b>Fri 16 Nov, excursions</b>			
9:00 visit Maasvlakte II departs			
9:00 visit Sand Engine departs			
15:00 visit Maasvlakte II returns			
15:00 visit Sand Engine returns			