Welcome to Oceanology International 2016, the world’s flagship ocean science and marine technology event and the biggest edition to date in its 47-year history. Here you can put yourself at the centre of your community, rubbing shoulders with thousands of global colleagues, plus over 500 international exhibitors from 36 countries on the packed exhibition floor.

OI 2016 will provide you with an invaluable opportunity to find the latest technologies, services and advice, connecting you with the most comprehensive source of industry expertise and business opportunities seen anywhere in the world. Do get involved in every aspect of the event to gain maximum benefit from it.

World-class, free-to-attend conference
This year, as well as boasting a bigger exhibition, it is fair to say that OI is bursting with more content than ever before, starting with our largest-ever conference programme which has been designed to meet the changing needs and interests of the varied community that it serves. Old favourites make a return, and we have new and topical sessions too. It is a great mix.

Our conference chairman, Professor Ralph Rayner, talks eloquently on page 7 of this OI Daily about the conference content, and the chairmen of each of today’s conference streams have given superb ‘elevator pitches’ (pages 10 and 11) to help you decide which strand is for you. This is something you can look forward to on a daily basis.

Continues on page 3

THE FULL PICTURE
FOR OCEAN SCIENCE

Fully integrated solutions for ocean science from KONGSBERG. Product highlights include the latest generation HiPAP® system, cNODE® MiniS transponder, EM® 712 multibeam echo sounder and much more!

Visit our stand D600 to find out more.
km.kongsberg.com
INVITATION SKILLTRADE SURVEY LECTURE
AT N-SEA STAND G600

N-Sea will be exhibiting at stand G600. They will be showcasing one of their RHIB vessels on the quayside, as well as their capabilities to successfully and safely complete unexploded ordnance (UXO) survey projects. Each morning Huibert-Jan Lekkerkerk of Skilltrade will give a survey training session.

Lecture Program, start 9:00

- Why Survey + Project Definition (15 minutes)
- Positioning: Surface Positioning (GNSS, Gyro, Motion Sensors) Subsurface Positioning (LBL, USBL) / Geodesy (including Vessel Geometry) (75 minutes)
- Break (15 minutes)
- Survey Techniques: Introduction Underwater Acoustics / MBES, Lidar, SSS SBP, Magnetometer, Seismic, Cable / Pipe Tracking (75 minutes)
- Data processing and Reporting (15 minutes)

During the training sessions at stand G600, Skilltrade can provide more information about their services, the latest E-Learning modules and our CAT B course.

Geo-matching.com

The world’s largest product database for surveying, navigation and machine guidance

Browse more than 1,000 products!

Image courtesy: Atlas Professionals
**Colophon**

Geomares Publishing will publish a total of three OI Show Dailies during Oceanology International 2016, namely on Tuesday 15 March, Wednesday 16 March and Thursday 17 March.

Geomares Publishing
Publishing Director: Durk Haarsma
Editorial Manager: Joost Boers
Sales Manager: Sybout Wijma
Copy Editor: Lynn Radford, Englishproof.nl
Design: VRHL Content en Creatie, Alphen aan den Rijn (NL), www.vrhl.nl

**Editorial Contributions**
Each issue will contain interesting and topical information about the exhibitors, their products and services as well as highlights of technical sessions and meetings. Contributions will come from the editors of Hydro International, the world’s leading magazine on hydrography. In addition, we will give companies the opportunity to publish their press releases as well as facilitating advertising within the publication.

**Deadlines**
If you have news, notices or wish to reserve advertising space in the OI Daily, please ensure that your submission is sent to Joost Boers, our Editorial Manager: joost.boers@geomares.nl. You also can submit your contribution at stand number L10. The deadline has been set for 13:30h for the next day’s issue.

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Continued from front page

**Show-floor activities and networking**
In addition to the technology-based conference programme, we are also running a full schedule of free-to-attend business content in our expanded ‘Trade & Innovation Theatre’ on the show floor, with topical sessions on the business challenges faced by the ocean community such as export opportunities and controls, access to capital and collaboration with other marine & blue-tech clusters and supply chains.

Immediately outside the exhibition, on the Royal Victoria Dock, our vessel and waterside demonstration programme provides opportunities to see our exhibitors’ technologies in action.

From a networking perspective, OI has long held a reputation for memorable networking events, and this year will be no exception with the launch of OceanSocial: a full programme of activities throughout the event week, organised both by us and our exhibitors, to help you to meet contacts old and new.

**A new North American edition**
Networking, a busy exhibition and a highly relevant conference lie at the heart of our new venture, Oceanology International North America, which is being held in February 2017 in San Diego, USA. Come and chat to the sales team in the exhibitor lounge to learn more about this exciting initiative and to explore opportunities at our sister event in China, the third edition of which will be held later this year.

**Our thanks**
On behalf of the entire OI team, I would like to extend our thanks to all of our industry supporters and luminaries, committee members and conference chairs, speakers, sponsors, exhibitors, visitors and press & media partners that work with us to deliver Oceanology International. Their efforts and the relationship we enjoy with them are fundamental to the event’s success.

Thank you too for attending the focal point of the industry’s calendar and I wish you a very successful week of business and networking at OI 2016.

Jonathan Heastie,
event director, Reed Exhibitions

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**London**

**MARCH AVERAGE**

| Daily Sunshine | 5 hours |
| Days of Rainfall | 9.8 days |
| Daily Temperature | 9 °C |

| MARCH 15 |
| SUN | Sunrise | 06:14 |
| | Sunset | 18:06 |
| TIDE | High tide | 05:15 - 17:47 |
| | Low tide | 11:20 - 23:54 |

Meet us at stand K450 to learn more about our OceanWatch and SpillWatch solutions

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**StormGeo**

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WHAT’S ON TODAY’S AGENDA?

Today is set to be a highly stimulating day, with the following conference streams taking place:

Today’s conference sessions
• Near & Far Market Trading
  UK, France, Scotland, USA and Ireland – Trade & Innovation Theatre (see page 17)
• Marine Technology and Services Sector Role in the Blue Economy – South Gallery, Room 11 & 12
• Marine Renewables – South Gallery, Room 3 & 4
• Positioning & Metrology – South Gallery, Room 7 & 8
• Green Shipping – South Gallery, Room 5 (afternoon only)
• Open Ocean & Coastal Observatories – Innovation Meets Industry – Trade & Innovation Theatre (afternoon only) (see page 17)

What else is happening today?

Teledyne Marine
At stand G100, the company is hosting the Teledyne Marine vehicles as well as a spacious Learning Centre where a series of presentations over the course of OI will detail Teledyne Marine’s newest product innovations, exciting customer applications and a variety of tips and tricks to better utilise Teledyne Marine’s products, software and services. Visit any Teledyne Marine stand for the full schedule.

3D at Depth
3D workshops at 09:00, 11:00, 14:00 and 15:30 each day on stand C301:
• Area Topic: Data Collection
  Planning a subsea Lidar data collection operation,
  Operating the SL system
• Area Topic: Data Processing
  Metrology data processing
  Point cloud registration with surface scans
  Open to all.

XPRIZE Workshop: Design a Prize – the ‘Blue Button Challenge’
12:30-16:30, South Gallery Room 2
Help design a prize to turn big ocean data into valuable products! XPRIZE is set to launch a competition to inspire innovators to create marketable solutions that transform the capacity to act based on ocean data. Attend his engaging brainstorming workshop facilitated by XPRIZE, the world’s leader in incentivised prize competitions, to help create solutions for organising and broadcasting the increasing amount of ocean data gathered each day. Open to all but on a first-come, first-served basis, or email Matt.Huelsenbeck@xprize.org to secure a place.

MMT (UK) Ltd
Presentations on stand F601:
11:00 UXO services
14:00 Geotechnical, geophysical, data processing and results
16:00 SROV (Surveyor Interceptor ROV)
Open to all.

The National Oceanography Centre
South Gallery Room 9
13:00-15:00 Marine Robotics Innovation Centre
15:00-17:00 Oceans of Tomorrow
Open to all, registration through http://conference.noc.ac.uk/OI.Workshops.

EU-EuroFleets II-hosted Workshop on Sensor Web Enablement (SWE)
13:30-17:30, South Gallery Room 6
The workshop is open to all.

Bibby HydroMap
14:30 South Gallery Room 10
The company is holding a ‘by invitation only’ launch of the data from the first trials of the d’ROP survey ROV system. Interested? Rest assured that there will be a public launch on Thursday which is open to all.

Dockside Portacabin Demonstrations
Teledyne Seabotix at 09:15, 11:45, 13:00 and 14:15
Seafloor Systems at 10:30 and 15:30
Remember to check the demonstration times for the flotilla of nearly a dozen vessels. For example, R2Sonic will be giving hourly demonstrations of its latest wideband, highest-resolution, shallow-water echosounder with expanded features on the new Port of London Authority S/V Maplin vessel throughout OI. To sign up, visit stand H250.

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Lightweight Optical Subsea Modem

The AQUAmodem Op1L is a lightweight version of Aquatech’s standard optical modem, designed for use by divers and on small ROVs. Using established technology, the optical modem allows short-range interrogation, commanding and data download from underwater equipment. The instrument is three times lighter than the original optical modem, developed for applications in oceanographic, environmental and coastal research as well as offshore energy industries. The latest version is interchangeable with Aquatec’s original optical modem and can reduce costs when combined with existing systems. The design makes the AQUAmodem Op1L suitable for deployment on such ROVs to depths of 500m.
Blue Button Challenge

Help design a prize to turn big ocean data into valuable products! XPRIZE is set to launch a competition to inspire innovators to create marketable solutions that transform the capacity to act based on ocean data. Attend this engaging brainstorming workshop facilitated by XPRIZE (Tuesday 15 March from 12:00-16:30 in the South Gallery, Room 2) to help create solutions for organising and broadcasting the increasing amount of ocean data gathered each day. Attendees will work collaboratively to identify the scope and generate a plan for the ‘Blue Button Challenge’ – a small to medium-sized prize aimed at advancing competition and investment in ocean data products and services.

Success for 200kN Seabed CPT System

Horizon Geosciences’ 200kN Seabed CPT system was recently used successfully on a complex geotechnical site investigation for Vattenfall, offshore Denmark. The programme of work included downhole sampling and CPT testing, seismic CPT testing, pressure meter testing, P-S logging, vibrocoring and seabed CPTs in excess of 1300m. Horizon’s digital CPT system is designed to achieve a continuous profile to depths in excess of 40m into the ground.

Teledyne Marine’s One Team Presentation

Teledyne Marine’s newly formed One Team will be out in full force at OI 2016 in London, spanning four booths and 23 brands. According to Mike Read, president of Teledyne Marine, the essence of the One Team approach is that, from first point of contact, customers will be aligned with an individual, or team of individuals, who will expertly address all aspects of their current application. By doing so, the company aims to provide a one-stop shopping experience including 24/7 customer support worldwide. OI 2016 is the first occasion where customers will realise the benefits of the new global sales, service and support organisation. The Teledyne Marine One Team looks forward to receiving its customers in London, on Tuesday during the presentation reception from 17.00-19.00 on the stand.

DISCOVER OUR INTEGRATED SOLUTIONS

Join us quayside for a special tour of N-Sea’s new-generation daughtercraft Edradour at Oceanology International 2016. Find out all about the advanced features of the multi-support vessel, including its dive support capabilities in hard-to-access locations, its proven role in subsea object detection - and the ‘underwater eyes’ Sound Metrics Aris 3000 acoustic camera system. AND REMEMBER TO VISIT US AT BOOTH G600! WWW.N-SEA.COM
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Q&A with Professor Ralph Rayner

Ten conference streams at Oceanology International 2016 are proof positive that Conference Chairman Professor Ralph Rayner and his committees, drawn from industry and academia, have been working hard behind the scenes to ensure they create the conference the industry needs.

Q: What makes OI so special?
A: It serves many markets. Exhibitors showcase a range of enabling products and services sold into multiple markets. Most trade shows and conferences are the other way round: looking at products and services that support a single target market. OI is unique in that it turns this model on its head, with delegates from multiple markets interacting with exhibitors showcasing products and services that are delivered to a wide variety of end users.

Q: What lies at the heart of the conference?
A: Undoubtedly the many applications of ocean science and technology. Our traditional areas – ocean observing systems (this year with the title ‘Marine Technology and Services Sector Role in the Blue Economy’), hydrography, geophysics and geotechnics, unmanned vehicles, positioning and metrology are all there. And marine renewables and aquaculture (introduced in 2014) make welcome returns.

Q: So what’s new?
A: We’ve got a session on ‘Green Shipping’, and specifically on issues related to management of invasive species, an area everyone is expecting to be a significant emerging market. The necessary international legal directives are very close to coming into force. At Oceanology International we are creating the chance for people to hear about the opportunities this will create.

Q: What else?
A: ‘Handling Big Data’ is another new stream. The marine community has been in the business of handling large datasets for a long time, so in a sense it has been a pioneer in this area. Nevertheless there is a lot that the community can learn from emerging capability in management and analysis of large measured and modelled datasets.

Q: Is there anything for the offshore oil and gas industry?
A: Yes, two sessions about what to do with existing assets, squeezing as much as possible out of them, as opposed to what is needed to develop new fields. ‘Monitoring Structural Integrity: Understanding Risk and Reliability’ plays very much to some of the issues faced by the oil and gas industry. Stretching assets safely and effectively requires that you monitor and understand what is failing, or when things are likely to fail, in response to the hostile operational environment of the ocean.

Q: And the other session?
A: The session “What’s next for ageing offshore assets?” will focus on life extension. This session will also consider what to do at the end of life, because that is one of the growing market opportunities in an environment of low oil and gas prices.

Q: That begs the question, what role does OI play at a time of a low oil price?
A: The big advantage it has for exhibiting companies is looking at how their different products and services can be applied into multiple end uses – it is not constrained into being predominantly ‘offshore oil and gas related’. It helps exhibitors that are predominantly oil and gas suppliers to think outside the box and look for new opportunities, as well as maximising existing ones.

Q: Does OI have a role as a catalyst for future growth in the industry?
A: Yes. ‘Catch the Next Wave’, our conference held on the eve of OI before an invited audience, provides the clue. With a theme of robotics and artificial intelligence, we brought together pairs of speakers from entirely different sectors, such as robotic applications in surgery and remote intervention in the ocean. Throughout the day there were many ‘we could learn something from that!’ moments. That translates over to the main OI conference, and the exhibition hall, where we expose people to what is happening in segments of the marine world that they don’t normally encounter, and encourage them to learn to take advantage of them. Next step – new markets!

Q: Which conference stream can we expect to see you at?
A: That’s always a difficult choice as they are all fascinating. As I will have to choose, I will probably attend the ones most germane to my specific interests such as ocean observation and unmanned vehicles. But it is always tempting to learn about something completely new – that’s what makes Oceanology International such a valuable event: the opportunity to look across different areas of ocean science, diverse technologies and multiple market applications.
Finally, an **INS** for ROV navigation

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- Cost effective MWSK /ROV DP
- Safety/precision
- Easy switch within the range

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**ROV NAVIGATION**

- OCTANS NANO
- ROVINS NANO

**SURVEY-GRADE**

- OCTANS 3000
- ROVINS

www.ixblue.com/rovinsnano
Integration of Sonic 2024 for New Survey Vessel

R2Sonic and Swathe Services Ltd UK have integrated the R2Sonic 2024 wideband high-resolution multibeam echosounder on board the Port of London Authority’s (PLA) hydrographic survey vessel Maplin, recently delivered by Essex-based CTruk Boats. The system provides widely selectable frequencies for shallow water, including ultra-high resolution (UHR) 700kHz to satisfy the PLA’s particular interest in structural monitoring along with other bathymetry applications. According to John Pinder, hydrographer at PLA, the organisation is looking after 400 square miles of the Tidal Thames, surveying depths from bank to bank and structures in and along the river. Demonstrations of the PLA Sonic 2024 system on board the new Maplin hydrographic survey vessel are being held at OI 2016. Please sign up at the R2Sonic stand.

Gwyn Griffiths is an ocean technologist and immediate past president of the Society for Underwater Technology (SUT). Until November 2012 he was chief technologist and founding head of the Marine Autonomous and Robotic Systems facility at the UK’s National Oceanography Centre (NOC) in Southampton. He remains an active world-leading authority in the field of ocean technology. In 2012 he founded Autonomous Analytics, a consultancy formed to meet the needs of those involved in the technology and application of autonomous marine vehicles for an independent source of ideas. In 2013 Gwyn joined the board of MOST (Autonomous Vessels) Ltd. and became a partner in Marine and Maritime Services LLP.

Gwyn’s career began in the mid-1970s developing instruments for marine science at the UK Institute of Oceanographic Sciences, growing into the formation and leadership of development programmes such as that for the Autosub autonomous underwater vehicle at the NOC. Indeed, it is the Autosub programme with which he is perhaps most closely associated. Throughout his career he has sought to develop an understanding of the scientific requirements for ocean measurements to ensure that needs are met.

Two of the three winners are profiled here today and the celebrations will continue tomorrow when you can read about Paul Ridout’s achievements in the OI 2016 Daily.

Richard Burt is sales and marketing director at Chelsea Technologies Group. Richard graduated from Swansea University in 1979 in chemistry and oceanography and joined the scientific civil service/Ministry of Defence working at the Admiralty Research Establishment (ARE), Portland, from 1980 until 1989, leaving as a senior scientific officer in the Tactical Oceanography Group. The ARE was the focus for UK government underwater research in support of Royal Navy requirements and his specialisations included non-acoustic detection in anti-submarine warfare and under-ice oceanography. He has conducted and participated in international military oceanographic programmes.

He joined Chelsea Instruments in 1991 with responsibility for marine and environmental business development, and was appointed to the board in 1992 as sales and marketing director. Richard’s particular experience includes establishing business relationships between research organisations and industry, technology transfer and the development of oceanographic sensors and systems for operational oceanography.

CONGRATULATIONS!

Congratulations to three worthy award winners. The presentations took place at the Catch the Next Wave conference yesterday. Pictures of the winners with their awards will appear in subsequent issues of the OI 2016 Daily.

- Gwyn Griffiths, founder of Autonomous Analytics, was presented with the OI Lifetime Achievement Award
- Paul Ridout, executive chairman of Ocean Scientific International Limited, was named the AMSI Council Business Person of the Year
- The Alan Greig Memorial Prize for outstanding contribution to operational oceanography was awarded to Richard Burt of Chelsea Technologies Group

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For 13 years, he was professor of underwater systems at the University of Southampton. He has authored numerous technical and scientific papers and reports, and is associate editor for the journals Underwater Technology and Methods in Oceanography. His awards include the MBE for services to marine science, the SUT’s President’s Award, and the Distinguished Technical Achievement Award from the IEEE Oceanic Engineering Society.

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What the conference chairman say

All the OI 2016 conference chairmen were set the following challenge: “Imagine you are in a lift (or elevator for those of you from the other side of the Atlantic) and give a classic ‘elevator pitch’ to your fellow passengers about what they will take away from your conference stream, so they follow you out of the lift and into the session.”

This is what today’s chairmen had to say:

**Marine Technology and Services Sector Role in the Blue Economy**
Chaired by Zdenka Willis, director of U.S. Integrated Ocean Observing System (IOOS) programme, and Justin Manley, founder of Just Innovation.

- “Attendees will hear from the directors of the US, Australian and European national observing systems. They will benefit from unique insights from industry leaders in ocean observing. The latest ideas about both markets and technologies that unite to form the Blue Economy will be presented by speakers and panellists with personal expertise and global perspectives.

  “Participants will leave with the most current knowledge and informed by the chance to engage in robust discussions with individual speakers and two expert panels.”

Follow Zdenka and Justin to South Gallery, Room 11 & 12, where the morning session starts at 10:00.

**Marine Renewables**
Chaired by Nick Murphy, head of operations at SeaRoc, and Tony Hodgson, global business development manager – renewable energy at Fugro.

- “Cost reduction is one very real goal of the marine renewable energy industry, and our ‘takeaway’ is that time spent at the Marine Renewables session will be invaluable in this quest. Industry professionals will speak about how recent innovations in modelling, surveying and foundation design are helping the industry achieve real cost reductions and how they have identified new markets for existing technologies. But that’s not all – far from it! Come and find out more, especially about advances in UXO detection where new developments help identify risk levels/risk mitigation.

  “We hope that after following this session you will go away inspired to see how you and your organisation can help the industry in its journey towards higher quality, greater efficiency, safer operations and cost reduction.”

Nick and Tony are looking forward to seeing you in South Gallery Room 3 & 4 (start time 10:00).
**Green Shipping – Management of Invasive Species**
Chaired by Bev MacKenzie, technical and policy director at Institute of Marine Engineering, Science and Technology (IMarEST), and Richard Burt, AMSI chairman and sales and marketing director at Chelsea Technologies Group.

- “With the imminent ratification of the IMO Ballast Water Convention, and the US Coast Guard already adopting its own rules, the timing of the Green Shipping conference session could not be better. It will be necessary to fit up to 60,000 vessels with ballast water treatment systems over the next few years which presents significant commercial and scientific challenges, and opportunities, to the maritime community.

  “In one exciting session you will hear industry experts present the latest progress on ballast water management and policy, techniques for treating ballast water and new sensor technologies to monitor the effectiveness of treatment. Hear how novel hull coatings are being developed to prevent the biofouling of ship’s hulls and reduce this vector for invasive species.”

If Bev and Richard’s pitch has hit the spot, head to South Gallery, Room 5 (start time 13:00).

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**Positioning & Metrology**
Chaired by Jonathan Davis, survey & geospatial data management manager – AGT region at BP, and Malik Chibah, INS group manager at Sonardyne.

- “Challenging times for the offshore survey and metrology industry require innovative and leading-edge techniques and technologies that deliver operational efficiencies and productivity. And that’s just what will feature on the Positioning & Metrology conference agenda today. Bringing together oil and gas companies, survey contractors and key equipment suppliers, this session features example applications of new technology to rise to industry challenges.

  “We hope our audience will share our excitement in a programme that covers a range of leading-edge techniques and technologies which will deliver operational efficiencies and productivity improvements in the field of underwater positioning and imaging. What better ‘takeaway’ could there be?”

Join Jonathan and Malik in South Gallery, Room 7 & 8 (start time 10:00).

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**Li-Ion Subsea Power**

SubCtech’s answer to the increasing demand for greater autonomy and long-term deployments underwater is a safe and highly reliable family of Li-Ion batteries, the PowerPack. An energy density of 210Wh/kg on battery level makes SubCtech’s Li-Ion batteries with titanium pressure housing more efficient than comparable pressure-neutral Li-Pol batteries, facilitating long-term deployments and high currents. Power Packs are available from 100+Wh to 100+kWh, with voltages from 14.4V to 600V DC and currents up to 100+A. Being qualified according to ISO 13628-6, MIL-STD 810G, the Li-Ion batteries are used for subsea oil & gas. The SmartCharger charges the batteries automatically and unattended. It can be connected or disconnected in every state of charge (SOC). The chargers are splash-water protected.

**Stand no. M250**

40kWh Li-Ion AUV battery, ready to be installed.
There are 11 vessels visiting Oceanology International. Some for demonstration purposes, some for receptions and on-board displays. On this page, you can learn about four of them.

**Curtis Marshall**

B Marshall Marine is presenting the Curtis Marshall, a purpose-built compact dive support vessel, set up with a small ROV from Innovatum which will be launched from underway two to three times a day. A full in-built dive system, including a decompression chamber, is on display. Curtis Marshall is 110 GRT and 26 metres in length.

**Kommandoren**

Back by popular demand! Hays Ships Ltd is presenting the Baltic trader that it describes as ‘our Good Lady Kommandoren’. She celebrates her 125th birthday this year. **Kommandoren** was built in 1891 at Karrebaeksminde (Denmark) and is typical of a small Danish cargo vessel of the period. She is 19.96m long, has a beam of 5m and gross tonnage of 32t, and will be moored quayside, acting as a vessel for receptions.

**Northern Wind**

During OI 2016, Kongsberg Maritime is demonstrating its latest developments in underwater mapping for subsea and survey applications aboard the Northern Wind. Running real-time demonstrations and showing the latest hardware and software features available, the vessel is equipped with the following systems: high-resolution multibeam EM2040 – dual RX system; Seapath 330+ positioning, heading and attitude sensor; maritime broadband radio (MBR); and the portable sub-bottom profiler TOPAS PS120. The vessel is also demonstrating the new portable high-resolution multibeam, EM2040 P.

**Sanssouci Star**

NDT Offshore has chartered the 54m motor yacht Sanssouci Star for the duration of OI 2016. She was built in 1982 by Husumer Shipyard and last refitted in 2013. **Sanssouci Star** is built with a steel hull and aluminium superstructure and features an ultra-modern stabilisation system to reduce roll motion effect and ensure ultimate comfort. She has a cruising speed of 12 knots, a maximum speed of 16 knots and a range of 8,061nm.

At OI 2016 the vessel is being used to entertain guests from the exhibition and to showcase small models of equipment. Sanssouci Star’s interior layout sleeps up to 12 guests in seven staterooms, including a master suite, one VIP stateroom, three double cabins and two twin cabins. She is also capable of carrying up to seven members of crew on board to ensure a relaxed luxury yacht experience.
Sakhalin Energy Appoints BMT ARGOSS

BMT ARGOSS (BMT) has been appointed by Sakhalin Energy Investment Company Ltd to deliver weather forecasting services to support its onshore and offshore operations in the Sakhalin region, off the east coast of Russia. BMT’s 18-strong team will provide weather, wave and current forecasts as well as tidal information to help support offshore drilling operations. BMT will deliver twice-daily updates on weather and wave conditions and a once-daily update on the current and tides.

Panel Session: Instrumentation for Ocean Observing

The Automatic Fluid Injection Sampler (AFIS) is a tool for water sampling with immediate in situ fixation. Additionally there is no physical impact on the sample due to a pressureless closing mechanism. Listen to and discuss with HYDRO-BIOS and learn more about this technique which enables unbiased samples to be retrieved for monitoring of microbial activities in the environment during the panel session on Instrumentation for Ocean Observing (Tuesday 15 March at 13:30 in the South Gallery).

Base•X2

Profiling has never been so simple.

Base•X2 presents the best profiler technology of today in a compact, cost-effective package. Available in 100m and 500m versions, Base•X2 retains the size of its predecessor while gaining WiFi connectivity and GPS.

Learn more about Base•X2 at 16:30 on Wednesday, March 16th in the Trade & Innovation Theatre.

SVP or CTD

With AML’s new combined conductivity and temperature sensor, CT•Xchange, Base•X2 converts from an SVP to a compact, cost-effective CTD profiler with the switch of a single sensor head.
HD-max Echo Sounder

- 17" large-size screen
- Waterproof and rugged
- Stable performance
- High compatibility
- Cost effective

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We offer you the latest cost-effective turnkey solutions by combining geophysical, geotechnical, environmental and UXO surveys for safe offshore installations.

AML's Base•X₂ Sets New Bar for Profilers

The latest generation of AML Oceanographic’s Base•X presents the profiler technology of today in a compact form. Available in 100m and 500m versions, Base•X retains the size of its predecessor while gaining Wi-Fi connectivity and GPS cast georeferencing. Data is automatically downloaded and processed into desired manufacturer formats, saving valuable time for the operator. With AML’s new combined conductivity and temperature sensor CT•Xchange, Base•X converts from an SVP to a CTD profiler with the switch of a single sensor head.

AML Oceanographic’s new Base•X represents a step ahead in profiler technology.

Four C-Worker 5 Autonomous Surface Vehicles Completed

ASV has completed the construction of four C-Worker 5 vehicles. These autonomous surface vehicles will be added to ASV’s global lease pool in the second quarter of 2016. The 5m-long C-Worker 5 was specifically designed as a hydrographic survey force multiplier, able to accommodate a variety of client payloads and applications. It can operate at 7 knots for five days before refuelling. This speed/range combination maximises acquisition effectiveness while minimising launch and recovery operations. As a force multiplier, it can operate concurrently alongside traditional survey vessels, dramatically increasing survey efficiency.

The ASV C-Worker 5, unveiled for the first time.

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The ASV C-Worker 5, unveiled for the first time.
Networking – a vital ‘OceanSocial’ element at OI!

We’ve coined a new term for OI 2016: ‘OceanSocial’. Perhaps, as an exhibitor, you’ve already enjoyed time at the Oceanology Icebreaker Drinks on the eve of OI 2016’s opening at the newly selected venue, the Siemens Crystal – one of the world’s most sustainable buildings and just five minutes’ walk from ExCeL. Or maybe, like all visitors and exhibitors, you will be enjoying tonight’s traditional events on the exhibition floor. Either way, you’re taking part in an ‘OceanSocial’ – and there are plenty more opportunities to do so throughout the show.

This is today’s ‘OceanSocial’ programme in approximate time order:

**EIVA a/s**
- **Time:** 11:00 at the EIVA stand (D500)
- **Venue:** Reception in connection with the launch of NaviPac 4, a new generation of survey navigation and positioning solution released today, 15 March. The fourth generation of NaviPac, the flagship of the EIVA software suite, is being demonstrated by the company’s NaviSuite experts and visitors will be able to try out the software themselves. Open to all.

**Dutch Ocean Group**
- **‘Lunch with the Dutch’ – Networking and enjoying a lunch buffet**
- **Time:** 12:30
- **Venue:** Dutch Ocean Group Pavilion F600
  By invitation only (go to the Dutch pavilion this morning to collect an invitation).

**Proserv Nautronix**
- **Time:** 15:30-18:00
- **Venue:** Stand C101
  There will be a jazz band playing on the stand, making it a great networking event. Open to all.

**Dutch Ocean Group**
- **Networking/Dutch Jenever tasting**
- **Time:** 16:30
- **Venue:** Dutch Ocean Group Pavilion F600
  Open to all.

**Society of Maritime Industries (SMI)**
- **Time:** 16:00-17:00
- **Venue:** SMI stand (C600)
  Reception for the launch of the new Society of Maritime Industries Maritime Autonomous Systems Council. The SMI board has agreed to the formation of the MAS Council to provide a focus for members’ interests in the emerging area of maritime autonomous systems. The MAS initiative is being launched at OI 2016. Open to all UK companies.

**Teledyne Marine ‘One Team’ Hospitality Event**
- **Time:** 17:00-19:00
- **Venue:** F100, G100, J100
  Teledyne Marine is hosting a ‘One Team’ hospitality event to introduce the new One Team approach to the marine industry. Join Teledyne Marine to learn more about the Sea of Solutions and take part in the celebrations with a cold beer and tasty food in hand!●

OceanSocial – Oceanology International’s Networking Evening – everyone is invited!
From 17:00-19:00 today, you’re all guests of the Oceanology International team, which will be hosting the OceanSocial at the Oceanology North America Bar on the exhibition floor, sponsored by FMC Schilling Robotics.

Visitors and exhibitors can network and enjoy refreshments and snacks and wander the hall to be warmly welcomed wherever they go, with the end of a successful first day being celebrated on many a stand. This is the perfect opportunity to catch up with clients or make new connections in a social atmosphere.
You will find the OI 2016 Trade & Innovation Theatre on the exhibition floor

The OI 2016 Trade & Innovation Theatre

This morning it plays host to ‘Near & Far Market Trading – New Investment, Export & Partnership Opportunities for Your Business’ – a series of international trading sessions for companies looking to build their export potential and establish international trading partnerships with foreign counterparts. The second set of sessions will run on Thursday.

The near market focus highlights trading opportunities within Europe, followed by similar ‘far markets’ sessions covering trading with countries in the Americas and Australian states.

Content is delivered by trade commissions and regional trade and industry groups. They will showcase opportunities within their country/region, support mechanisms provided to assist trade with the country/region (including inward investment), and ideally any products, services or companies from the country/region who want to work with OI’s international audience. All who have an interest in building their export, import and global partnership potential are welcome.

The United Kingdom kicks off the session this morning, when at 10:00 John Murray, chief executive, Society of Maritime Industries, looks at ‘The UK Approach to Supporting the Development of Maritime Autonomous Systems’. He will be followed at 10:30 by Sébastien Provost Cann, project manager, Pôle Mer Bretagne Atlantique, and Patrick Baranaa, managing director, Pôle Mer Méditerranée, speaking on behalf of France.

Scotland is next on the agenda with Murray Bainbridge, senior international trade executive, Scottish Development International (SDI), speaking from 11:00.

The United States (and San Diego in particular) follow at 11:30. Matt Sandford, director of economic development, San Diego Regional Economic Development Corporation, will chair the discussion with panellists Bryan Bjorndal, CEO, Assure Controls; Greg Murphy, executive director, The Maritime Alliance; Josh Caplan, integrated cyber operations business portfolio manager, SPAWAR Systems Center Pacific, US Navy; and Neil Trenaman, director, ocean & coastal market segment, Xylem Analytics.

San Diego is a global hub of blue technology customers and, from February 2017, the home of OI North America.

Ireland then comes under the spotlight. Dr Edel O’Connor, national coordinator, Advanced Marine Technology Programme, Irish Marine Institute; Ciarán Arthur, strategic investment manager, IDA Ireland; and Liam Curran, senior technologist, Enterprise Ireland, will be speaking from midday.

The Open Ocean & Coastal Observatories Workshop – Innovation Meets Industry will take place in the Trade & Innovation Theatre from 14:00-17:00. Open to all, the workshop showcases the achievements of open ocean and coastal observatories and the new technologies evolving from the scientific activities of marine observatories across Europe.

Speakers during the session are Nick O’Neill from SLR; Glenn Noland, EuroGOOS; Eric Delory, PLOCAN; Shane Laverty, SLR; Paul Gaughan, Irish Marine Institute; and Henry Ruhl from NOC. Plenty of time has been left for Q&A and discussion at the end of the session.

Those attending will learn about the business case for accessing ocean and coastal observatories, hear about the advances in standardisation, inter-operability, data management, online access to data, and sensor web enablement, and receive an invitation to access existing ocean and coastal observatories to test new equipment in controlled surroundings.

Sessions for those looking to build their export potential

Different Topic This Afternoon
What’s on Tomorrow – Wednesday 16 March

Full information on everything listed here can be found in the show catalogue. This page is just to whet your appetite!

Main conference sessions – free to attend for all (all full-day and morning-only sessions start at 10:00):
• Oil & Gas: What’s next for ageing offshore assets? – South Gallery, Room 3 & 4
• Unmanned Vehicles and Vessels Showcase – Part 1 (morning only) – South Gallery, Room 7 & 8
• Monitoring Structural Integrity Understanding Risk and Reliability (morning only) – South Gallery, Room 5
• Aquaculture – South Gallery, Room 11 & 12
• Handling Big Data (afternoon only) – South Gallery, Room 7 & 8 (start time 13:30)

In the Trade & Innovation Theatre – free to attend for all:
• Oiltech ‘Meet the Investor’ Seminar (morning only from 10:00). Followed by the “by invitation only” Meet the Investor Workshop (South Gallery, Room 2 from 13:00)
• Clusters, Collaboration & A Common Blue Voice (afternoon from 13:00-14:30). Organised by The Maritime Alliance (TMA) with whom Reed Exhibitions is partnered to launch OI North America in San Diego, 15-17 February 2017
• New Products Showcase
  o VideoRay’s New Mission Specialist ROV Systems (15:30-15:55)
  o AML Oceanographic: Cabled UV Biofouling Control (16:00-16:25)
  o AML Oceanographic: Base•X (16:30-16:55)

And there’s more!
• Open Ocean & Coastal Observatories Technology Cluster Workshop
  09:00-11:30 South Gallery Room 2
  Open to all
• National Oceanography Centre – presentations and networking events
  South Gallery Room 9
  09:00-13:00 – NOC Industry Showcase
  13:00-17:00 – Oceans of Tomorrow
  Open to all but subject to availability
• 3D at Depth
  09:00, 11:00, 14:00 and 15:30 on stand C301
  3D workshops. Also see page 4 for further details.
  Open to all
• Teledyne Marine Learning Centre (G100) – home to a series of presentations over the course of OI 2016. Visit any Teledyne Marine stand for a full schedule
• Dockside Portacabin Timetable: RTSys at 09:15, 11:45, 13:00 and 15:30, and DWTEK at 10:30, 14:15 and 16:45
• The Met Office: Harnessing the role of science to support the oil and gas industry across their global supply chain
  Venue: South Gallery Room 6
  (10:00-11:30 and 14:00-15:30)
  Who can attend: Oil and gas-focused organisations (by invitation only)

Over the lunchtime period The Met Office, BMT Group and Oceanweather Inc will be hosting a networking event, with the availability of the dataset of the Mid Atlantic Current Hindcast (MACH) at its heart. By invitation only.

• Seiche: Advanced Techniques for Sound Measurement in the Marine Environment
  11:00 on stand L710
  Open to all
• MMT (UK) Ltd
  11:00, 14:00 and 16:00 on stand F601
  Presentations on UXO services; Geotechnical, geophysical, data processing and results; and SROV (Surveyor Interceptor ROV)
  Open to all
• IMCA – International Marine Contractors Association
  IMCA Workshop on Shared Vehicle-borne Sensors for ROV and Offshore Survey Applications
  13:30-17:00, South Gallery, Room 14
  Open to members and non-members but check space availability at the IMCA stand (S220)
• Proserv Nautronix
  15:30-18:00 Jazz band on stand C101

NOTE: For any “by invitation” event or if availability is restricted, it is advisable to enquire at the relevant stand.
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