

# T&D Programme

DELEGATES MUST BE ON SITE TO RESERVE A PLACE.

⚠ Arrive early if you wish to attend morning workshops.

TUESDAY 04 APRIL		DOCKSIDE		VESSEL	CLASSROOMS
	Test Tank	Dockside 1	Dockside 2	Bill Conway	Students Centre Rm 121/05
09.30 -10.30	<b>develogic</b> Compact Gateway Buoy - a small and easy to deploy satellite telemetry gateway buoy with acoustic and inductive subsea communication.		<b>Seafloor Systems</b> EchoBoat-ASV: 2-man portable, customisable vehicle, featuring multibeam sonar integrated with INS/GNSS and real-time SVP. Speed to 10 knots.	<b>Ping DSP / Geometius</b> 3DSS-DX-450 swath bathymetry 3D sidescan sonar and software.	<b>Kongsberg Maritime</b> Latest updates for survey apog; the next generation seaglider; Eelume – Swimming robot for subsea
11.00 -12.00	<b>Tritech International</b> Demonstrating their range of mechanical and multibeam sonars to show the difference in resolution between the different models.	<b>Teledyne - Oceanscience / Odom Hydrographic</b> The ruggedised, portable Z-Boat 1800RP ASV with Odom MB2 multibeam echosounder.	<b>Maritime Robotics</b> The otter with integrated multibeam echosounder will be dem	<b>Xylem Analytics</b> Sontek Hydrosurveyor and HYPACK demonstration.	<b>R2Sonic</b> Multibeam training session: Optimising use of R2Sonic system functionality and advancements.
12.30 -13.30	<b>Outland Technology</b> Inspection ROV demonstration.	<b>Seafloor Systems</b> EchoBoat-ASV: 2-man portable, customisable vehicle, featuring multibeam sonar integrated with INS/GNSS and real-time SVP. Speed to 10 knots.		<b>Ping DSP / Geometius</b> 3DSS-DX-450 swath bathymetry 3D sidescan sonar and software.	<b>EdgeTech</b> Latest sonar and acoustic technology.
14.00 -15.00	<b>Saab Seaeye</b> ROV demonstration.	<b>Chelsea Technologies Group</b> Fluorometric Systems for real-time monitoring of Algae, organics, hydrocarbon and sewage.	<b>Kongsberg Maritime</b> Kongsberg GeoSwath multibeam system installed on remote controlled vessel.		<b>C-MAX Ltd</b> The CM2 sidescan sonar system.
15.30 -16.30	<b>Teledyne - SeaBotix</b> See the power of the SeaBotix vLBC tracked crawler. The unique, patented VRAM attractor produces 28 kgf of attractive force.	<b>Swathe Services</b> CEE Hydrosystems team up with Swathe Services to introduce a new USV.			<b>KNUDSEN</b> Sounder and Chirp series echosounders, pinger sub-bottom profiler, and 320N Naval fleet echosounder.
17.00 -18.00	<b>VideoRay</b> Demonstrating next generation ROV technology from VideoRay – The Mission Specialist Series.	<b>Teledyne - SeaBotix / BlueView</b> SeaBotix vLBV ROV and BlueView M900-2250 sonar now integrated with new SmartFlight 2.0 powered by Greensea.			<b>Teledyne Benthos</b> A deep dive into the features and operation of the new UTS-9400 for use with Teledyne Benthos acoustic releases and modems.

*NOC Engineering & Testing Services and Calibration Facility Tours between 14.00 – 16.00 Visit Stand W11*

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LEVEL 1		LEVEL 4				TUESDAY 04 APRIL 2017	
Students Centre Rm 121/11	Ray Beverton Rm 044/11	John Swallow Rm 054/06	Node Rm 1 064/03	Node Rm 2 074/02	Access Grid Rm 124/14		
<b>RTSYS</b> Innovation in passive acoustics monitoring devices with embedded processing capabilities.	<b>NKE Instrumentation</b> NOSS underwater sensor measures in-situ refractive index, pressure, temperature and seawater density.	<b>Teledyne SeaBotix</b> Archaeological work using ROVs with data collected with NOAA.	<b>NETmc Marine</b> Training on E-Inspect, their "inspection point" based package and integrated video acquisition hardware.	<b>AXYS Technologies</b> AXYS-APS: a cloud-based geoportal to improve accuracy of weather forecasting for offshore operations.	<b>HYPACK, a Xylem brand</b> HYPACK 2017: what's new?		09.30 -10.30
<b>INNOMAR Technologies</b> SES-2000 parametric sub-bottom profilers.	<b>Sea-Bird Scientific</b> Latest developments in ocean pH technology.	<b>Teledyne Marine</b> Integrated success at 6000m - detailed overview of their collaborative and industry leading solution for deep tow applications.	<b>Sonardyne International</b> Underwater mobile mapping; exploring the possibilities for this dynamic technology.	<b>Cefas</b> Data Storage Tags: their scientific origin, development and applications.	<b>Wish Software</b> VisualGIS Server: VisualSoft digital video with ESRI ArcGIS in the Browser.		11.00 -12.00
<b>Teledyne RESON</b> Multibeam sonar configuration minimising processing time and making better use of resources.	<b>Aquatec Group</b> The latest suspended sediment instrumentation from Aquatec.	<b>BluHaptic</b> Using Telerobotics software to deliver on the Lean Promise in subsea operations.	<b>RS Aqua</b> Demonstrating the WaveView Connect software for wave data processing and display.	<b>Prevco Subsea</b> Housing design and portable vacuum leak test kits.	<b>Foreshore Technology</b> Dredge Master software for advance monitoring solutions.		12.30 -13.30
<b>develogic</b> Subsea observatories with real-time data communication: acoustic, inductive, optical and pop-up telemetry.	<b>Teledyne RD Instruments</b> Case studies highlighting the Sentinel V ADCPs and the new direct read and moving boat options.	<b>Planet Ocean</b> ecoSUB - democratising AUV technology; Introduction to the ecoSUB range of innovative, low cost micro AUV's.	<b>Xylem Analytics</b> Systems and solutions.	<b>Xsens Technologies</b> Attitude & Heading reference systems - techniques to compensate for magnetic field distortions.	<b>QPS</b> Acquire-process-visualise-share. Learn how to get the most from QPS products and solutions.		14.00 -15.00
<b>Valeport</b> Presenting Valeport's new software platforms.	<b>Sea-Bird Scientific</b> Latest advances in fluorescence and backscattering sensor technology.	<b>SWARMS</b> Smart and networking underwater robots in cooperation meshes.	<b>Datawell</b> Measuring air temperature with a Directional Waverider DWR4.	<b>Star-Oddi</b> Miniature data loggers measuring temperature, depth, salinity, tilt and more.	<b>Teledyne CARIS</b> Find out about the latest trends and developments in data processing, management and analysis tools.		15.30 -16.30
	<b>EIVA</b> ToughBoy wave buoy: collecting and storing data - including wave sensor and remote configuration and monitoring.		<b>Teledyne RESON / BlueView / Odom</b> Selection guideline for multibeam echosounders and forward sonars.	<b>Ocean Sonics</b> Introducing the new digital hydrophone array			17.00 -18.00

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WEDNESDAY 05 APRIL		DOCKSIDE		VESSEL	CLASSROOMS
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0900 -1000	<b>Saab Seaeye</b> ROV demonstration.	<b>RBR</b> Demonstrating their inductive mooring line modem and WiFi enabled loggers with cast detection.	<b>Seafloor Systems</b> EchoBoat-ASV: 2-man portable, customisable vehicle, featuring multibeam sonar integrated with INS/GNSS and real-time SVP. Speed to 10 knots.	<b>Ping DSP / Geometius</b> 3DSS-DX-450 swath bathymetry 3D sidescan sonar and software.	<b>Subsea Technology &amp; Rentals</b> STR SeaSpyder and Associated Products and Services. The use of an underwater drop camera system for marine and environmental surveys.
1030 -1130	<b>OceanModules</b> Unique ROV-concept the V8 M500 and its unique capabilities.	<b>Rockland Scientific (OceanScan - MST)</b> Demonstrating the LAMTOV - Light Autonomous Microstructure Turbulence Observation Vehicle.	<b>Ocean Sonics</b> Introducing the new digital hydrophone array.	<b>Xylem Analytics</b> Sontek Hydrosurveyor and HYPACK demonstration.	<b>Ping DSP / Geometius</b> 3DSS-DX-450 swath bathymetry 3D sidescan sonar and software.
1200 -1300	<b>Teledyne - BlueView</b> Experience the tripod mounted BV5000-1350. The 3D mechanical sonar creates high resolution 3D imagery of underwater structures.	<b>ASV Global</b> The C-Worker 5 Autonomous Surface Vehicle demonstrating real offshore survey and subsea positioning capabilities.	<b>Maritime Robotics</b> The otter with integrated multibeam echosounder will be demonstrated in the dock.	<b>Ping DSP / Geometius</b> 3DSS-DX-450 swath bathymetry 3D sidescan sonar and software.	<b>MMT</b> Geophysical, geotechnical, environmental, UXO and advanced ROV surveying.
1330 -1430	<b>Aquatec Group</b> Demonstrating the AQUAmodem Op1L lightweight optical modem for subsea data download, command and control.	<b>PROAMBIENTE Consortium</b> An innovation USV-class for shallow and ultra-shallow water geophysical and environmental monitoring.	<b>Swathe Services</b> CEE Hydrosystems team up with Swathe Services to introduce a new USV.	<b>Chesapeake</b> SonarWiz demonstration using Kongsberg's PULSAR sidescan sonar. Join us for this demo and see the new SonarWiz features in action.	<b>GBT Offshore</b> MBES theory - NORBIT, case study and training.
1500 -1600	<b>develogic</b> Modular seafloor lander with integrated microprofiler - sampling of current, conductivity and O <sub>2</sub> data at multiple levels above the seafloor.	<b>Teledyne - Benthos / SeaBotix</b> Live demo of SeaBotix vLBV outfitted with Benthos new Trackit USBL system.	<b>Kongsberg Maritime</b> Kongsberg GeoSwath multibeam system installed on remote controlled vessel.		<b>Falmouth Scientific</b> Low frequency and CHIRP sub-bottom profiling systems and transducers.
1630 -1730	<b>Outland Technology</b> Inspection ROV demonstration.	<b>Seafloor Systems</b> EchoBoat-ASV: 2-man portable, customisable vehicle, featuring multibeam sonar integrated with INS/GNSS and real-time SVP. Speed to 10 knots.	<b>EvoLogics</b> Underwater acoustic communication and positioning.		

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<b>Liquid Robotics</b> The Digital Ocean - USVs connecting sea to sky to shore to enable the ocean economy.	<b>Aanderaa, a Xylem brand</b> Ocean in motion - introducing the MOTUS wave buoys		<b>Teledyne PDS / BlueView / Gavia</b> A joint project between PDS/Blueview/Gavia.	<b>Teledyne Oceanscience</b> Case studies of the new rapidCAST™ underway profiling system and Underway SV / CTD.	<b>DECO Geophysical</b> HR seismic processing in RadExPro software, including demultiple and SharpSeis deghosting.	0900 -1000	
<b>RTSYS</b> Training session for representatives.	<b>Aanderaa, a Xylem brand</b> Ocean in motion - introducing the MOTUS wave buoys	<b>Teledyne SeaBotix</b> Fly-out system - ROV fly-out applications for USVs and manned submersibles and other subsea vehicles.	<b>Teledyne RD Instruments</b> Case studies on the power of their DVLS and an overview of latest technology advancements.	<b>RIEGL - Laser Measurement Systems</b> An update on their shipborne, airborne and UAV-borne topobathymetric solutions.	<b>QPS</b> Acquire-process-visualise-share. QPS products and solutions for hydrography.	1030 -1130	
<b>Teledyne RESON</b> ParaSound sub-bottom profiler case studies in search for deep water resources.	<b>Chelsea Technologies Group</b> Water quality monitors for ballast water treatment, exhaust gas cleaning systems and ferryboxes.	<b>Swathe Services</b> Fully Automated MBES patch test calculator and cleaning validating software.	<b>EIVA</b> ScanFish ROTV and NaviSuite software: UXO and oceanographic surveys, including horizontal/vertical control of ROTV.	<b>AML Oceanographic</b> An introduction to new products, features, services, and training on the latest version of AML's SeaCast software.	<b>HELZEL</b> Messtechnik Reliable metocean data in real-time for coastal management.	1200 -1300	
<b>Teledyne CARIS</b> Find out about the latest trends and developments in data processing, management and analysis tools.	<b>Sea-Bird Scientific</b> Continuous monitoring with autonomous nutrient sensors.	<b>SeeByte</b> Software demonstration on monitoring and planning missions for multiple AUVs using a single control station.	<b>Hemisphere GNSS / Saderet</b> Presenting "Atlas" 10cm accuracy global L-band satellite navigation network for offshore surveys.	<b>Teledyne Webb Research</b> SFMC Software: introduction and training for their new web-based piloting and viewing tool.	<b>HYPACK, a Xylem brand</b> HYPACK and HYSWEEP: using the software for AUV, ASV and UAV.	1330 -1430	
<b>Wartsila ELAC Nautik</b> Multibeam systems with high-resolution water column imaging capabilities.	<b>RBR</b> New product and features: small pressure and temperature logger, WiFi, cast detection and more.	<b>Teledyne Gavia / Webb Research</b> Noteworthy operational results from customer projects and trials in 2016.	<b>Advanced Navigation</b> Cost effective next generation inertial navigation for live streaming and post-processed applications.	<b>Datawell</b> Measuring air temperature with a Directional Waverider DWR4.	<b>OceanWise</b> Port-Log: latest developments in environmental data sharing and publishing.	1500 -1600	
<b>Tritech International</b> Tritech's mechanical and multibeam sonars.	<b>Sea-Bird Scientific</b> The expanding capabilities of Navis biogeochemical profiling floats.	<b>Teledyne Webb Research</b> Exciting new applications for the APEX advanced multi-sensor profiling floats.	<b>SBG Systems</b> Innovative MEMS inertial navigation systems.	<b>Sonardyne International</b> Equipping your robotic vehicle platforms to deliver the data you need.	<b>Wish Software</b> Product update: latest development on suite of Wish Software products.	1630 -1730	

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	Test Tank	Dockside 1	Dockside 2	Bill Conway	Students Centre Rm 121/05
0900 -1000	<b>OceanModules</b> Unique ROV-concept the V8 M500 and its unique capabilities.	<b>Teledyne Oceanscience</b> Shallow and coastal water survey made easy. The new Z-Boat RP with Odom MB2 multibeam echosounder.	<b>Maritime Robotics</b> The otter with integrated multibeam echosounder will be demonstrated in the dock.		<b>Chesapeake</b> SonarWiz - Learn how to use this intuitive software to make your sidescan, sub-bottom, bathymetry and magnetometer data acquisition and processing easier and even more efficient.
1030 -1130	<b>Outland Technology</b> Inspection ROV demonstrating.	<b>Swathe Services</b> CEE Hydrosystems team up with Swathe Services to introduce a new USV.	<b>Kongsberg Maritime</b> Kongsberg GeoSwath multibeam system installed on remote controlled vessel.		<b>Teledyne Benthos</b> Detailed overview of Teledyne Benthos new USBL system for shallow water vehicle applications.
1200 -1300	<b>develogic</b> Compact seafloor lander combined with pop-up data ferries with Iridium data transmission.	<b>PROAMBIENTE Consortium</b> An innovation USV-class for shallow and ultra-shallow water geophysical and environmental monitoring.			<b>Teledyne Benthos</b> Detailed case studies depicting how Teledyne Benthos A-Comms / Positioning are aiding industry leading UUV technology.
1330 -1430	<b>VideoRay</b> Demonstrating next generation ROV technology from VideoRay – The Mission Specialist Series.	<b>Deep Trekker</b> Mini-remotely operated vehicles. Deep Trekker ROVs are 100% portable.			<b>INNOMAR Technologies</b> INNOMAR SES-2000 parametric sub-bottom profilers.
1500 -1600	<b>Saab Seaeye</b> ROV demonstration.	<b>Chelsea Technologies Group</b> Primary Productivity measurements using the FastOcean & Act2 for probing phytoplankton photosynthesis.			<b>Maritime Robotics</b> The otter with integrated multibeam echosounder will be demonstrated.

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<b>Kongsberg Maritime</b> Latest updates for survey apocs; the next generation seaglider; Eelume – Swimming robot for subsea.	<b>Teledyne Marine</b> Complete electrical, fiber optic and hybrid solutions for reliable power and data transmission.	<b>Seafloor Systems</b> Presenting the autonomous multibeam survey data, taken from the previous days' trials.	<b>Datawell</b> Measuring air temperature with a Directional Waverider DWR4.	<b>SBG Systems</b> Innovative MEMS inertial navigation systems.	<b>EIVA</b> NaviSuite software: latest possibilities for data acquisition / processing.	0900 -1000
<b>Wartsila ELAC Nautik</b> New developments for Wartsila ELAC SeaBeam multibeam echo sounders.	<b>Sea-Bird Scientific</b> Real-time data moorings using inductive modem communications.	<b>Teledyne Webb Research</b> G3 Slocum Glider: overview of their new design and latest innovative glider applications.	<b>Turner Designs</b> AquaFlash handheld active fluorometer: providing total chlorophyll and photosynthetic efficiency.	<b>Advanced Navigation</b> Subsonus, a tightly acoustic-inertial navigation system capable of replacing FOG technology at a third of the cost.	<b>Geosoft</b> Showcasing the latest version of Oasis montaj and UXO marine software.	1030 -1130
<b>Fugro</b> Marine site characterisation and marine asset integrity.	<b>Teledyne TSS</b> Meet the Saturn-INS and learn about advancements within their pipetracker development.	<b>Rockland Scientific (OceanScan - MST)</b> Turbulence data collected with the LAMTOV AUV, processing and analysis.	<b>Mooring Systems</b> Oceanographic mooring buoy and bottom mount design tips (mooring 'Know how').	<b>Teledyne PDS / BlueView</b> MotionScan - a 3D scanning surface vessel sonar for monitoring and inspecting in shallow areas.	<b>QPS</b> Acquire-process-visualise-share. QPS products and solutions for offshore renewables.	1200 -1300
<b>Blue Ocean Monitoring</b> Environmental monitoring using glider based PAM systems.	<b>Impact Subsea</b> A technical overview of the ISA500, ISD4000 and their latest sensor products.	<b>Sonardyne International</b> Sustained ocean observations; transforming your capability, extending your endurance.	<b>TCarta Marine</b> Demonstrating a new satellite derived bathymetric global dataset.	<b>Teledyne PDS / BlueView</b> PDS/Blueview FLS integration during dredging. Case study with Peter Madsen dredging company.	<b>Wish Software</b> AutoChart: alignment sheet generation comes to ArcGIS, AutoCAD and Microstation.	1330 -1430
<b>RTSYS</b> In-situ acoustics sediment characterisation for geophysics and multibeam-sonar calibration.	<b>Sea-Bird Scientific</b> Sea-Bird Scientific's new multi-parameter (CTD, DO, pH, turbidity/chlorophyll) instrument.	<b>ASV Global</b> How to execute advanced autonomous operations at sea.	<b>EOMAP</b> Rapid, affordable and remote: Filling shallow water and coastal data gaps with integrated satellite solutions.	<b>Teledyne BlueView</b> A 360 degree tunnel profiler, for critical inspection deliverables in tunnels.	<b>HYPACK, a Xylem brand</b> HYPACK SonTek HSM9 and CastAway integration, collection and processing.	1500 -1600