



The Australasian Hydrographic Society
& The Society for Underwater Technology
co-host their celebratory 10th
Autonomous Underwater Technology,
technical conference & exhibition:



AUT 2017

18th October 2017

Pan Pacific Hotel (Grand River Ballroom West)
207 Adelaide Terrace, Perth, Western Australia

The AHS/SUT Autonomous Underwater Technology (AUT) Conference is celebrating its tenth occurrence. The conference has brought to the industry, actionable information on the advances in AUT technology and applications along with gaining an insight to where the technology is developing. Technological advancements have translated to increases in AUT utilisation, reliability and the function across the oil and gas, renewable energy, environmental, research and defence industries, to name a few.

The Australasian region has experienced a significant increase in underwater oil and gas infrastructure associated with LNG field development. This increase in subsea infrastructure coupled with AUT's becoming more mainstream has created downstream applications in addition to the more traditional upstream applications such as exploration and export pipeline route development. These include environmental monitoring, pipeline and infrastructure inspections and data harvesting.

To acknowledge these changes this year the AHS/SUT conference organising committee aims to demonstrate these new applications and different technologies along with supporting the ongoing experiences of the traditional acquisition of underwater data.

After 9 prior events, this conference continues to be one of the most important gold standard networking opportunities in this field, allowing contact between pipeline engineers, subsea asset managers, geophysicists, environmental scientists, hydrographic surveyors, defence organisations, oil & gas field development specialists, government bodies, equipment manufacturers, academic & research bodies, oceanographers, survey companies and port & security operators.



Photos courtesy of Fugro

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Delegate Wallet Sponsors



Lunch Sponsors



Exhibitors include



Ice Breaker sponsorship and table top exhibitions are still available.
Contact SUT (details on page 3) for further details.



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Keynote Presenter: Mike Bowler, Survey Operations Manager, Woodside Energy



Mike has been with Woodside Energy for 13 years.

Mike obtained a BSc (Hons) degree in Survey Science at the University of Newcastle-Upon-Tyne, United Kingdom in 1981. He commenced his offshore survey career as a surveyor and party chief with Gardline, based in Great Yarmouth, primarily working in the North Sea on a variety of rig site survey, pipeline and cable route surveys, as well as undertaking hydrographic surveys for nautical charting. He joined the Hydrographic Office of the Ministry of Defense in 1986 as a Hydrographic Officer, responsible for preparation and QC of surveys and navigational charts for areas as diverse as the Persian Gulf, South America, West Africa and the busy sea lanes and changing sandbanks of the Southern North Sea and Dover Strait.

Mike emigrated to Australia in 1991 and worked as a freelance hydrographic surveyor, primarily with Associated Surveys (later Fugro Survey Pty Ltd), specializing in acoustic positioning and construction projects in Australia and throughout South East Asia. In 1998 he took up a position with Shell as Survey Coordinator for Brunei Shell Petroleum, which involved managing onshore and offshore surveys including a major ROV inspection survey of 190 of the company's offshore pipelines, utilising digital video capture and GIS. Mike left Shell in 2003 to join Woodside in Perth where has held a variety of roles covering Survey Operations, Seismic Acquisition and Processing and Health and Safety and is presently their Survey Operations Manager within the GeoTechnical Operations Department.

Throughout his operational career he has been committed to Technology and Health and Safety improvement initiatives within the industry. Mike is a former chairman of SurveySafe and is presently on the IOGP Shared Common Industry Technical Standards Task Force.

Ice Breaker Function



Date: Tuesday, 17th October 2017
Time: 5.30 pm - 8.30 pm
Venue: The Reveley Bar (Elizabeth Quay, Eastern Promenade, 901 Riverside Drive)
Cost: \$50 members / \$70 non-members
Details: Enjoy an evening welcoming the conference with drinks and canapes overlooking Perth's beautiful Swan River
RSVP: www.AUTicebreaker.eventbrite.com.au



SEA Suppliers Forum



Date: Wednesday, 18th October 2017
Time: 5.15 pm - 7.30 pm
Venue: CORE (191 St Georges Terrace)
Cost: Complimentary if registering during conference registration process.

Details: At the end of the conference Subsea Energy Australia have arranged their 8th Annual Subsea Suppliers Forum. All conference participants are invited to attend to meet and talk with industry in an informal atmosphere as well as celebrate the conference over drinks and canapes.

RSVP: Via conference registration.

2017 Conference Organising Committee:



Shuhong Chai
AMC UTAS



Steve Duffield
AHS



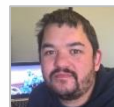
Pat Fournier
Neptune



Ian Hobbs
Fugro



Ben Hunt
Blue Ocean Monitoring



Nicholas Lake
Shell



Simon Tanner
Chevron



Peter Wademan
Woodside Energy



Phil Wells
Neptune



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Tuesday, 17 October 2017

Ice Breaker: 17.30 – 20.30 at the Reveley Bar, Elizabeth Quay

Wednesday, 18 October 2017

08.00 Registration, Tea/Coffee and Exhibition

08.30 Welcoming Address

Norman O'Rourke, SUT Perth Secretary

SESSION A:1 Session Chair – Steve Duffield, AHS

08.40 Keynote Address: Autonomous Technology - Opportunities & Challenges for the Oil & Gas Industry

Mike Bowler, Woodside Energy Ltd

09.05 Establishing a Cost Effective Approach for Wide Area Detailed Seabed Mapping – A Case Study of a Multiple AUV Application

Jan Ingulfsen, Swire Seabed

09.30 The Collaborate Integration of Autonomous Underwater Vehicles into Military and Security Operations

Ryan Carmichael, Royal Australian Navy

09.55 Fusion – A Step Change in Military Autonomous Technology

Rich Rickett, Seatools Pty Ltd

10.20 *Tea/Coffee & Exhibition*

SESSION A:2

10.50 Combined autonomous surface vehicle and underwater vehicle operations – lessons from MASSMO

Steve Hall, Society for Underwater Technology

11.15 The Regulatory Approach to Marine Autonomous Systems

Grant Judson, Australian Maritime Safety Authority

11.40 The Expanding Operational Relevance of Autonomous Surface Vessels

Cory Brooks, Western Advance

12.05 *Lunch & Exhibition*



SUT reserves the right to amend/change the programme as it sees fit.

Photography/videos are prohibited at this conference unless authorised by the SUT

SESSION B:1 Session Chair – Peter Wademan, Woodside Energy Ltd.

12.55 Informal presentation: Western Trends in Autonomous Underwater Technology – Opportunities In Australia

Paul Hornsby, Royal Australian Navy

13.05 Panel Discussion

Ross Dinsdale, Blue Ocean Monitoring; Peter King, Australian Maritime College; Grant Judson, Australian Maritime Safety Authority; & Peter Wademan, Woodside Energy Ltd.

13.35 Eelume, A Subsea Resident Swimming Robot for IMR

Che Keong Lee, Kongsberg Maritime

14.00 Acoustic and Optical Communication Networks Enabling New Emerging Concepts for AUT Operations

Anthony Gleeson, Sonardyne International

14.25 Enabling Automated Subsea Inspection and Monitoring Through a Universal AUV Interface System

Paul Georgeson, AGON

14.50 AUV Mission Simulation for Training, Planning, Analysis and Development

Peter King, Australian Maritime College

15.15 *Tea/Coffee & Exhibition*

SESSION B.2

15.45 Using Autonomous Underwater Gliders for Geochemical Exploration Surveys

Ross Dinsdale, Blue Ocean Monitoring

16.10 Orange is the new Yellow – From legacy ROV inspection surveys to more efficient and cost-effective HUGIN AUV solution

Giovanni De Vita, DOF Subsea

16.35 Exploration Under Ice with new Polar AUV

Peter King, Australian Maritime College

17.00 Closing remarks

Steve Duffield, AHS President

17.10 Conference concludes

17.15 – 19.30 Coach to SEA Suppliers Forum, CORE, 191 St Georges Terrace

Cost & Inclusions

Costs include GST

Conference Registration: Early Bird
(Early Bird closes 18 August)

\$250 - SUT/AHS Member
\$300 - Non-member
\$130 - Student
N/C - Presenter
\$180 - Co-Presenter

Ice Breaker

\$50 - Members/Presenters/Co-Presenters/Students
\$70 - Non-members

Conference Registration: Regular
(from 19 August)

\$270 - SUT/AHS Member
\$320 - Non-member
\$150 - Student

Fee includes:

Attendance at all technical sessions, USB of conference proceedings/PDF presentations, morning afternoon tea, lunch, delegate wallet and registration at SEA Suppliers Forum.

To register visit www.AUT2017.Eventbrite.com.au

(Separate registration for Ice Breaker Function - www.AUTicebreaker.eventbrite.com.au)