

REGISTRATION DAY: Tuesday 17 February 2009

4.30pm Registration Desk opens in the Level 2 Foyer

6.00pm **CONFERENCE WELCOME RECEPTION** in the AOG Subsea Pavillion - Level 1 *Sponsored by UKTI British Consulate*

DAY ONE: Wednesday 18 February 2009

8.30am Registration - Level 2 Foyer

9.00am **CONFERENCE WELCOME & WELCOME TO COUNTRY** Welcome to the SUT annual conference Riverside Theatre - Level 2
Martyn Witton
(SUT Perth Branch Chairman)

9.15am **OFFICIAL OPENING** **Hon Peter Collier MLC** (Minister for Energy; Training)

PLENARY SESSION

9.20am What Subsea Technology needs to deliver to the Australian Oil and Gas Business
Betsy Donaghey
(Senior Vice President, Browse Development, Woodside Energy Limited)

9.50am The UK subsea industry – collaborative business opportunities
Patrick O'Brien
(Director, Subsea UK)

10.20am A global perspective on the future of subsea technology
Ian Gallett
(Chief Executive, Society for Underwater Technology, UK)

10.50am Morning Tea Break and **POSTER SESSION** - Level 2 Foyer

CONCURRENT SESSION ONE

Theme:	Projects	Controls and Umbilicals	Deepwater	Metocean and Oceanography
Venue:	Meeting 1 - Level 2	Meeting 2 - Level 2	Meeting 3 - Level 2	Meeting 4 - Level 2
Chair:	Simon Bingham	Glyn Overbury	Tapan Chakrabarti	Steve Buchan
11.20am	'Fast-tracking' field developments using integrated production modelling Kevin Hansen (Xodus Group Pty Ltd)	Open architectures for subsea control and monitoring applications Robin Slater (Aker Solutions)	Minimal deepwater surface facility for boosting long distance subsea tie-backs in Australia Christopher Carra (AMOG Consulting)	Visualisation of non-linear internal wave manifestations from current meter measurements on the Australian North-West Shelf Michael Garvey (RPS MetOcean)
11.50am	Wet gas metering for flow assurance and allocation on independence hub Ingar Tyssen (Roxar Pty Ltd)	All electric subsea systems, the next steps Jan van den Akker (Cameron Subsea Electric Systems)	Real time 3D visualisation – overcoming unique problems in deep water projects Bill Russell-Cargill (DOF Subsea)	Subsurface wave measurements taken to new depths Ketil Horn and Torstein Pedersen (Nortek AS)
12.20pm	Enfield 2007: subsea production enhancement project Chris Dolan (TS7)	RathGibson zinc clad lean duplex umbilical tubing John McManus (RathGibson)	Leaking subsea valves: identification, quantification and monitoring by using ultrasonic systems at deep and ultra deepwater installation Olav Brakstad (ClampOn AS)	Numerical and physical modelling of tsunami run-up and impact on subsea pipelines Tom Baldock (University of Queensland)

12.50pm Lunch Break in the AOG 'Subsea Zone' Exhibition Hall 1 (featuring over 50 exhibitions)
Sponsored by Oceaneering Australia

DAY ONE: Wednesday 18 February 2009 continues

CONCURRENT SESSION TWO				
Theme:	WORKSHOP 1	Pipeline / Soil Interaction	Metocean and Oceanography	
Venue:	Meeting 4 - Level 2	Meeting 2 - Level 2	Meeting 3 - Level 2	
Chair:	Graham Bonner	Liang Cheng	Enda O'Sullivan	
2.00pm	Key design features of the Snohvit subsea production control system and application to new field developments William Acworth (VetcoGray) Subsea Reliability <i>While subsea production system component reliability is very important, it is the integration of aspects such as subsea system design, construction and operation that really determines the actual system operating availability. There is an increasing trend towards large and complex subsea systems feeding large gas processing facilities, with many of these built on the back of long term gas contracts, requiring high feed gas availability. Hence there is a significant business driver to improve subsea system availability. Come to this workshop and share your experiences and aspirations with others and take away some ideas and strategies for improving subsea reliability/availability.</i> <i>In particular:</i> <ul style="list-style-type: none"> • What are the different approaches for achieving high system availability in remote locations • What are the key challenges to achieving measurable improvements in subsea system availability • What frameworks should be considered for improving system reliability and availability • What else should we be doing to achieve improvements in reliability/availability Graham Bonner (Chevron)	Towards more advanced pipe-soil interaction models in finite element pipeline analysis Jean-Christophe Ballard (Fugro Engineers SA/NV)	UCTD-a new tool for underway soundspeed profiling Jochen Klinke (Oceanscience Group)	
2.30pm		In-situ measurement of pipe-soil interaction in deep water – results of a successful offshore campaign Andy Hill (BP, UK) and Jean Francois Wintgens (Fugro Engineers, Belgium) <i>Presented by Hendrik Falepin</i>	Risers / Flexibles Challenges of flexible riser systems in shallow waters Didier Hanonge (Technip Oceania Pty Ltd)	
3.00pm		Pipe-soil interaction testing for design of a deep water project on soft clay David Bruton (Atkins Boreas), David White (The University of Western Australia) Thomas Langford (NGI) and Andy Hill (BP, UK)	Managing ageing flexible pipes Celine Banti, Chris Saunders, Enda O'Sullivan (MCS)	
3.30pm	Afternoon Tea Break and POSTER SESSION - Level 2 Foyer			
CONCURRENT SESSION THREE				
Theme:	Projects	Controls and Umbilicals	Deepwater	Risers / Flexibles
Venue:	Meeting 1 - Level 2	Meeting 2 - Level 2	Meeting 3 - Level 2	Meeting 4 - Level 2
Chair:	Rob Parker	David Keilty	Krish Thiagaraian	Brian Hardie
4.00pm	Woollybutt South Lobe Project – subsea facilities installation Steve Downie (TS7)	Umbilical layout driven by productivity Linh Le and Kevin Mullen (INTECSEA Pty Ltd)	Deepwater flow assurance <i>challenges in waxy gas condensate systems</i> Prabu Parthasarathy (MSI)	Annulus testing – the way to the heart of a flexible riser Thomas O'Connor (MCS)
4.30pm	A view of the subsea market from the perspective of an integrated subsea contractor John Payne (Hallin Marine Subsea International Plc)	Shallow water challenges in New Zealand test deep water technologies – a case study of the Kupe Umbilical Project Edward Miller (DUCO Inc)	Deepwater pipelay fatigue Enda O'Sullivan (MCS)	Annulus integrity management Craig Keyworth (Flexlife Ltd)
5.00pm	Close of Sessions			
5.15pm	Optional HAPPY HOUR at "The Lucky Shag" on Barrack Street Jetty OR check out the AOG Exhibition open to 7.00pm			
6.15pm	CONFERENCE DINNER at the MARITIME MUSEUM, FREMANTLE <i>(Cruise departs Barrack Street Jetty 6.30pm SHARP - assemble at 6.15pm) Cruise Sponsored by J P Kenny</i> Dinner includes an address from Colin Beckett (Chevron Australia General Manager, Greater Gorgon Area)			

DAY TWO: Thursday 19 February 2009

8.30am Registration - Level 2 Foyer

CONCURRENT SESSION FOUR

Theme:	WORKSHOP 2	Pipeline	Soils / Geotechnics
Venue:	Meeting 4 - Level 2	Meeting 2 - Level 2	Meeting 3 - Level 2
Chair:	David Liddle	Afton Galbraith	Ian Finnie
9.00am	<p>Commercialisation of Innovation, Technology Development and Deployment <i>Innovation, development, and more importantly deployment of new subsea technologies, is a key success factor in accessing reserves in mature and deepwater offshore basins.</i></p>	<p>Open direct electrical heating of subsea pipelines - project history, technology status and applications Peter Baker (Xodus Group Pty Ltd)</p>	<p>Observations of dynamic embedment during pipe laying Zack Westgate (The University of Western Australia)</p>
9.30am	<p><i>The workshop will highlight some of the end-user (industry) defined challenges facing the subsea sector, some of the collaborative means that will help realise new technology developments, and case studies of new implementation ideas. There will be an opportunity to discuss some of the issues facing new technology development and deployment.</i></p>	<p>Buckling of flexible flowlines in deepwater Patrick O'Brien (MCS)</p>	<p>The geotechnical challenges of active geohazards in the design of deepwater facilities Michael Horsnell (Fugro GeoConsulting)</p>
10.00am	<p>David Liddle and Neil Poxon (ITF – The Industry Technology Facilitator)</p>	<p>Vertical strategic anchor system (VSAS) for pipeline scarp crossings Jon Woodward, Liz Lakey and Terry Griffiths (J P Kenny)</p>	<p>Designing and building the worlds biggest subsea rock trenching machine Marcus Hemsted (CTC Marine Projects Limited)</p>
10.30am	Morning Tea Break and POSTER SESSION - Level 2 Foyer		

CONCURRENT SESSION FIVE

Theme:	ROVs and AUVs	Integrity Management, Reliability and Failure	Pipeline	Environmental
Venue:	Meeting 1 - Level 2	Meeting 2 - Level 2	Meeting 3 - Level 2	Meeting 4 - Level 2
Chair:	Andy Lane	Chris Lawlor	Alistair Walker	Ray Farrier
11.00am	<p>Nonlinear fully-coupled control of AUVs Matthew Kokegei (Flinders University)</p>	<p>Increasing reliability with low voltage electric umbilical cable design for warm water applications Carl Roemmele and Derek Shackleton (Oceaneering Subsea Products)</p>	<p>NWS pipeline stability – state of the art and future developments Terry Griffiths (J P Kenny)</p>	<p>Mapping seagrass in the Swan-Canning Estuary using sidescan sonar Iain Parnum (Curtin University of Technology)</p>
11.30am	<p>MAPR particle filter for AUV sensor fusion Andrew Lammas (Flinders University)</p>	<p>Industry capability to deliver reliability value: enablers and constraints Karl Woods (Atkins Oil and Gas)</p>	<p>Pipeline repair tooling and recent innovative developments Stephen Graham (Land & Marine Technology Systems)</p>	<p>Climate change impact on seabed sediment transport in the Australian exclusive economic zone Tristan Salles (CSIRO)</p>
12.00pm	<p>Field application of stereoscopic 3D video cameras in ROV intervention Andrew Woods (Curtin University of Technology)</p>	<p>Development and testing of guided wave techniques for pipeline integrity monitoring Ying Wang (The University of Western Australia)</p>	<p>The reliable initiation of lateral buckles – safebuck JIP David Leslie, Andrew Cosham, Malcolm Carr, and David Bruton (Atkins Boreas)</p>	<p>Benthic habitat mapping using multibeam sonar Iain Parnum (Curtin University of Technology)</p>

12.30pm Lunch Break in the AOG 'Subsea Zone' Exhibition Hall 1 (featuring over 50 exhibitions)

DAY TWO: Thursday 19 February 2009 continues

CONCURRENT SESSION SIX				
Theme:	WORKSHOP 3		Acoustics	Technology / Innovation
Venue:	Meeting 4 - Level 2		Meeting 2 - Level 2	Meeting 3 - Level 2
Chair:	Jim Leven		Scott Elson	Patrick O'Brien
1.45pm	<p>Perth as a Regional Centre of Subsea Capability <i>Perth is a hub of subsea engineering, but what do we need to further promote and establish this capability, and develop an exportable service?</i></p> <ul style="list-style-type: none"> Greater interaction with universities and R&D organisations Greater emphasis on innovation and commercialisation Better marketing of our capability 		A preliminary study of underwater acoustic communications over horizontal ranges Grant Pusey and Alec Duncan <i>(Curtin University of Technology)</i>	The role of fixed and mobile sensor nodes in marine and infrastructure monitoring Paulo A de Souza <i>(Tasmanian ICT Centre)</i>
2.15pm	<ul style="list-style-type: none"> More engineering / oceanographic / geoscience graduates and technical training More emphasis on local industry participation in projects Support of O&G operators to develop and encourage SME's 		Underwater acoustic surveillance networking Sandro Ghiotto <i>(L-3 Communication Nautronix Ltd)</i>	The virtual control buoy - a new application for solar-powered AUVs Kevin Mullen <i>(INTECSEA)</i>
2.45pm	<ul style="list-style-type: none"> Develop supply and logistic bases Links to other industries - such as Defence <p>Join us to brainstorm the way forward for subsea engineering. Jim Leven <i>(Department of Commerce)</i></p>		Network architecture for subsea data acquisition, submarine detection, ranging and communication Daniel Berinson <i>(Systec Engineering Pty Ltd)</i>	Innovative well operations from a DPII vessel: A case study Bevan Morrison <i>(TSMarine Pty Ltd)</i>
3.15pm	Afternoon Tea Break and POSTER SESSION - Level 2 Foyer			
CONCURRENT SESSION SEVEN				
Theme:	Subsea	Integrity Management, Reliability and Failure	Pipeline	Technology / Innovation
Venue:	Meeting 4 - Level 2	Meeting 1 - Level 2	Meeting 2 - Level 2	Meeting 3 - Level 2
Chair:	Keith Bentley	Graham Kerr and Jerry Baker	Mark Cassidy	Neil Kavanagh
3.45pm	Developing an environmental subsea hydraulic solution Simon McManus <i>(MacDermid Offshore Solutions)</i>	Subsea HIPPS systems designed for deep water operation John Griffiths <i>(HIMA Australia Pty Ltd)</i>	Continuum finite element modelling of buried pipeline subject to seismic fault displacement analysis Laure Odina <i>(Xodus Group Pty Ltd)</i>	Applying "every process on every well": case studies on subsea production optimisation using MARS (multiple application re-injection system) Ian Donald <i>(DES Operations Ltd)</i>
4.15pm	SECC sub-sea couplings Matthew Readman and Justin Marshall <i>(SECC Oil & Gas)</i>	Realistic expectations for condition monitoring of subsea pipelines Elizabeth Breakey <i>(Teledyne Corman Ltd)</i>	Operational modal identification of offshore structures using blind source separation Yanhua Li <i>(The University of Western Australia)</i>	Subsea manifold support utilising jetted piles Gary Humphrey <i>(Fugro GeoConsulting)</i>
4.45pm	Qualification of new environmentally friendly hydraulic control fluids Stefan Knepper <i>(Cameron GmbH)</i>	Mooring system inspection Alastair Trower <i>(Welaptega Marine Ltd)</i>	Repair of pipeline and subsea structures: How to utilise North Sea experiences in Australian waters Per Arild Nesje <i>(Nemo Engineering)</i>	Subsea multimanifold technology – a systems approach to subsea production Mads Hjelmeland <i>(Framo Engineering)</i>
5.15pm	Close of Sessions			
5.15pm	CLOSING SUNDOWNER - Level 2 Foyer			