

# Positioning and Survey underpin all aspects of the subsea environment.

From understanding the nature of the environment we are working in, the topography of the seabed, the geology of the seabed, the location of the assets on the seabed and how they may change over time. Upon completion of the course our expert presenters will have covered the following topics:

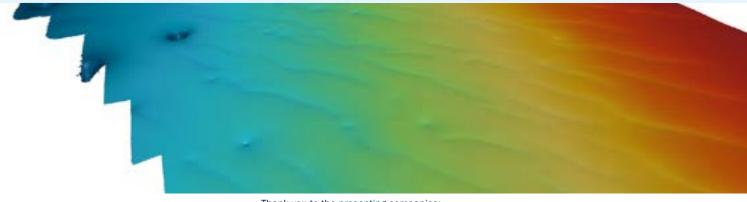
- Geodesy & Positioning Principles
- ▶ Surface Positioning
- ▶ Vessel Dynamics
- ▶ Tides & Currents
- Positioning Technology
- Case Studies
- Bathymetry
- Survey Data Processing
- ▶ Geophysics
- ▶ Remote Sensing Technologies

### WHY WILL THIS COURSE BENEFIT YOU?

The Introduction to Positioning and Survey Course provides an introduction to these aspects of subsea to allow the participants to understand and appreciate the requirements for survey and positioning in their subsea undertakings.

#### WHO SHOULD ATTEND?

Anyone who works for an operator, contractor or part of the supply chain and is involved with exploration, construction and maintenance of subsea assets would benefit from learning how subsea assets are positioned, why in that location and how the information is acquired and maintained. Those returning to the subsea industry or joining for the first time would also benefit and gain exposure to the latest technology and operating practices.



















## **COURSE SCHEDULE**

THURSDAY 20TH MARCH

09.00 Case Studies

10.45 Morning Tea

11.00 Geophysics

11.45 **Bathymetry** 

Validation AUV's, ROV's Tide Correction Side Scan Sonar

12.45 Lunch Break

13.45 Tides & Currents

Tide Measurement Prediction Current Profiling Temp Salinity

**about quality control**Paul Kennedy, Reach Subsea
Why is this important?

What are the inputs? What are the outputs? Managing crunch times

programme as required.

15.30 Course Finish

Sound Velocity Profiling Solitons

14.30 Hydrographic Surveys for Nautical Charting is all

What is a quality control measure?

\*\* SUT reserve the right to amend the course

\*\* Please note that all SUT courses are subject to minimum numbers. If minimum numbers are not met for the course to go ahead, the registration fee may be transferred to a future event or refunded in full.

08.45 Registration/ Tea & Coffee

Phil Wells, MMA Offshore Pluto Development

Equus Deepwater Pipeline Route

Does a portal add value or is it just a gimmick?

ni De Vita, DOF Subsea

Introduction to geophysics Methodologies and applications Data and new technologies

Barnaby Pountney, DOF Subsea

Single & Multi Beam Echo Sounders

10.00 The value of a Data Portal to manage a
Hydrographic project
Paul Kennedy, Reach Subsea

Is it worth the cost?
What layers are important?
Does it need to do everything?

WEDNESDAY 19TH MARCH 08.30 Registration/Tea & Cofee		
09.00	SUT Welcome & Introduction	
09.10	Introduction & Overview Peter Wademan, Woodside Energy	
09.30	Autonomy & Remote Operations Phil Wells, MMA Offshore	
10.00	Morning Tea	
10.15	Geodesy & Positioning Principles Barry Clifford, Woodside Energy Datums & Coordinate Systems Coordinate Reference Systems Coordinate Transformations MSL, Geoids & Mean Sea Surface Models	
11.15	Surface Positioning  Ahmed Said, MMA Offshore  History of Surface Positioning  US, Russian, European & Chinese satellite systems  Accuracies and misconceptions  Impacts of phones, watches & automated technology The future	
12.15	Lunch Break	
13.15	Vessel Dynamics Bill Russell-Cargill, INPEX Centre of gravity Stability Magnetic & Gyro Compass Pressure point Attitude sensors and calibration Turning of vessels Squat Inertial Navigation Sensor	
14.15	Remote Sensing Technologies Glenn Morrison, Woolpert Earth Observation: Satellites & Airborne Laser Scanners & Photogrammetry RADAR, LIDAR & Hyperspectral New systems & application examples	
15.15	Afternoon Tea	
15.30	Positioning Technology James McCawley, Fugro Ultra Short Base Line Long Base Line ROV INS Metrology	
16.45	Course Finish	

## **REGISTRATION FORM**

Please submit your registration to: Tel: + 61 (0) 8 9481 0999

Tel: + 61 (0) 8 9481 0999 Email: perthevents@sut.org

SUT Membership Number	PAYMENT INFORMATION: Please invoice (PO NO.)
Full name	
Job title	or
Company	— Credit Card
Address	Credit card Mastercard, Visa or AMEX* ONLY.  *Payment by AMEX wil carry a 2.75% surcharge, Visa a 1.5% surcharge  O Amex O Mastercard O Visa
Postcode	
Telephone	Card number
Email	Signature Expiry date
Signature	Start date Issue number
Course fees: (please tick)	Security Code (last 3 digits on the back of your card)
Early Bird* Member \$1200 AUD Early Bird* Non-member \$1430 AUD Member \$1495 AUD	Email address to send receipt
Non-Member \$1780 AUD Student Member \$480AUD  The prices above are <b>inclusive</b> of GST  Farly Bird registrations must be received by 18th February 2025	Please tick here if you do not want to receive our weekly newsletter

Cancellations: Refunds will be made on written cancellation received up to 10 working days prior to the event, but will be subject to a 15% administration charge. Cancellations received 9—4 working days prior to the event will be charged a 50% cancellation fee. Cancellations received 3—0 working days prior to the event will not be refunded. Delegates may send a substitute in their place at no charge. Should there be any COVID related shutdowns that impact this course it will be run online instead of in person.

