Introduction to
Positioning and Survey
4th September 2013
Salt Room, Ibis Hotel, Murray Street
Perth, Australia

Programme

08.15  Registration

08.25  Introduction & Overview - Peter Wademan, Woodside Energy Ltd.

08.50  Geodesy & Positioning Principles - Roger Loweth, Q Sea Pty Ltd.
  * Coordinates - Geographical - Grid - Cartesian * Ellipsoids * Horizontal Datums
  * Datum Transformations * Vertical Datums * Geoid * Projections and Grids
  * Precision * Reliability

9.50   Surface Positioning - Ken Eddy, Fugro Survey Pty. Ltd.
  * History of Surface Positioning Radio Waves, * GPS principles * GPS Error Sources * DGPS Positioning
  (Code Phase/CARRIER Phase) * Transmitting Corrections * WAS SA RTK * Correction & Subscription

10.35  Tea/Coffee

10.50  Vessel Dynamics - Capt. Phil Griffin, London Offshore Consultants
  * Centre of Gravity * Stability * Pressure Point * Turning of Vessels * Squat
  * Magnetic Compass * Gyro Compass * Attitude Sensors * Attitude Sensor Calibration
  * Inertial Navigation Sensor

11.35  Underwater Positioning Technology - Bruce Baker, I Spatial Solutions
  * Ultra Short Base Line * Long Base Line * Metrology * ROV * INS * NASNet

12.35  Lunch

13.20  Bathymetry - Bill Russell-Cargill, DOF Subsea
  * Single Beam Echo Sounder * Multi Beam Echo Sounder * ROV * Side Scan Sonar * AUV
  * Validation * Tide Correction

13.50  Survey Data Processing - Martin Watson, Fugro Survey Pty Ltd.
  * Interpolation * Data Modeling - Gridding and Thinning and Countouring
  * Data Presentation/Visualization * Subsea Data Modelling

14.15  Geophysics - Andrew Lane, Woodside Energy Ltd.
  * Reflection * Refraction * Resistivity & Magnetometer * Geotechnical Correlation

14.45  Tea/Coffee

15.00  Alternative Technology - Peter Hausknecht, Woodside Energy Ltd.

15.30  Case Study - Phil Wells, Neptune Geomatics
  Pluto Development

16.00  Case Study - Pat Fournier, Neptune Geomatics
  Equus Deepwater Pipeline Route

16.30  Day End

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

SUT would like to thank the following companies for their support of this course:
Registration Information

For further information on this event please contact Jennifer Maninin on j.maninin@sut.org  Tel + 61 (0) 8 9446 9903
To register, either e-mail the information required on the registration form to perthevents@sut.org
or fax the completed form to + 61 (0) 8 9446 9905

Registration Fees

Option 1: To include volumes 1, 2 & 3 of the Handbook of Offshore Surveying valued at $350
SUT Members - $636.36 + GST = $700.00
Non Members - $681.82 + GST = $750.00

Option 2: Does not include volumes 1, 2 & 3 of the Handbook of Offshore Surveying
SUT Members - $318.18 + GST = $350.00
Non Members - $363.64 + GST = $400.00

All Fees include - All refreshments, printed handout notes & CD containing PDF’s of the main presentations.

Preferred Payment Methods:

Credit Card:  Mastercard, Visa or AMEX* ONLY. We cannot accept payment by any other card.

*Please note payments made by AMEX will attract a 2.75% surcharge.

Cheque:  Australian Dollar only, made payable to The Society for Underwater Technology

Send to, SUT, 5/5 Hasler Road, Osborne Park, Perth WA 6017

Please make sure you reserve a place by e-mail or fax before sending payment.

Cancellations:

Refunds will be made on written cancellation received up to ten working days in advance of the event, but will be subject

Please note payments made by AMEX will attract a 2.75% surcharge.

Joining Instructions  Joining instructions will be e-mailed to each registered delegate.

Registration Form

Please e-mail completed form to Perthevents@sut.org or fax the to +61 (0) 8 9446 9905

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