Introduction to Positioning and Survey
3rd September 2014
Parmelia Hilton Hotel,
Mill Street, Perth

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
09:50 Coffee/Tea
10:05 Surface Positioning - Mark Hardman, Fugro Satellite Positioning 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
10:50 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 Tides and Currents - Scott Noreika, RPS Metocean
  * Tide Measurement * Current Profiling * Sound Velocity Profiling * Prediction
  * Temp Salinity * Solitons
12:15 Lunch
13:00 Positioning Technology - Bruce Baker, I Spatial Solutions
  * Ultra Short Base Line * Long Base Line * Metrology * ROV * INS * NASNet
14:00 Bathymetry - Norman Mackay, DOF Subsea
  * Single Beam Echo Sounder * Multi Beam Echo Sounder * ROV
  * Side Scan Sonar * AUV * Validation * Tide Correction
14:30 Survey Data Processing - Martin Watson, Fugro Survey Pty Ltd.
  * Interpolation * Data Modeling - Gridding and Thinning and Countouring
  * Data Presentation/Visualization * Subsea Data Modelling
15:00 Coffee/Tea
15:15 Geophysics - Fiona Fitzpatrick, RPS Australia Asia Pacific
  * Reflection * Refraction * Resistivity & Magnetometer
  * Geotechnical Correlation
15:45 Remote Sensing Technologies - Peter Hausknecht, Woodside Energy Ltd.
  * Earth Observation: Satellites & Airborne * RADAR, LIDAR & Hyperspectral
  * Laser scanners & Photogrammetry * New systems and Application examples
16:15 Case Study - Phil Wells, Neptune Geomatics
  Pluto Development
16:45 Certification and Course Conclusion

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 $460
SUT Members - $400 + GST + $460 publication = $900.00
Non Members - $450 + GST + $460 publication = $955.00

Option 2: Does not include volumes 1, 2 & 3 of the Handbook of Offshore Surveying
SUT Members - $400.00 + GST = $440.00
Non Members - $450.00 + GST = $495.00

Fee includes - All refreshments, handout notes of the presentations & CD containing PDF versions of the presentations.

Preferred Payment Methods:
Credit Card: Visa, Mastercard 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.

Invoice: Please tick here to be invoiced

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

Transport During the Course:
Delegates are responsible for their own travel arrangements to and from the Parmelia Hilton Hotel.

Cancellations:
Refunds will be made on written cancellation received up to ten working days in advance of the event, but will be subject to a 15% handling charge. 50% will be deducted up to three working days in advance and 100% thereafter up to the start of the event.  No refund will be given for non-attendance. Delegates may wish to nominate a substitute in their place.

Please tick box if you do not wish to receive further SUT information

Registration Form

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

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