This one-day course explains offshore geology, geohazards and geotechnical engineering, adopting a holistic approach to show how they interact and how an improved understanding of all three disciplines can lead to optimised infrastructure solutions. It is aimed at an audience with no or limited knowledge of geosciences.

The course will
• Introduce the different geological environments present offshore Australia and in other regions, ranging from shallow water through to deep water.
• explain how an integrated ground model can be used to reduce risk and increase value.
• show best practices for the collection of data for site characterisation, design and geohazard mitigation.
• Illustrate the geotechnical design of geotechnical infrastructure, including shallow foundations, deep foundations, anchors and pipelines, illustrated with numerous case histories.

The course will include demonstrations of equipment and laboratory tours at UWA to give ‘hands on’ experience of seabed sediments, soil element testing and physical modelling (including UWA’s centrifuge facilities and O-tube flumes).
Offshore Geohazards and Geotechnics: Risks and Opportunities
26th June 2019
Venue: University of Western Australia

08.00  Registration

08.25  SUT & delegate introduction

08.30  Housekeeping and Safety: Damon Sunderland, ARUP

08.35  Setting the Scene:
      Phillip Watson, The University of Western Australia + Damon Sunderland, ARUP
      ♦ Geotechnical overview of developments on the North West Shelf of Australia
      ♦ Objectives of a reliability strategy
      ♦ Importance of geohazards and geotechnics

09.20  Design Philosophy:
      Laith Tapper, NGI Perth
      ♦ Project timelines, managing risk and opportunities
      ♦ Design cases
      ♦ Selection of factors of safety
      ♦ Reliability-based design and risk analysis
      ♦ Installation risks and constraints

09.50  Designing for Installation:
      Rick Gillinder, Fugro

10.20  Coffee/Tea

10.40  Geology of the North-West Shelf:
      Andy Lane, NGI Perth

11.25  Geohazards and Georisks:
      Kevin Day, Ten Point Interpretation

12.10  Lunch

13.00  Desk Studies, Geophysical Surveys, Geotechnical Investigations and integration:
      Steve Tyler, Woodside Energy Ltd. & Damon Sunderland, ARUP
      ♦ Different survey and investigation methods
      ♦ New techniques
      ♦ Benefits of an integrated ground model and how this should be developed

13.45  Characterisation of the Seabed in Shallow and Deep Water:
      Noel Boylan, NGI & Scott Draper, The University of Western Australia

14.30  Coffee/Tea

15.00  Deep Water:
      Fraser Bransby, The University of Western Australia
      ♦ Geotechnical solutions for foundations, anchors and pipelines

15.45  Shallow Water:
      Carl Erbrich, Fugro AG
      ♦ Geotechnical solutions for foundations, anchors and pipelines

16.30  Future Horizons:
      Phillip Watson, The University of Western Australia

16.45  Conclusions, Wrap-up & Certification:
      Damon Sunderland, ARUP

17.00  Course close

SUT reserves the right to change/amend the programme as it see fit.
Registration Information

Offshore Geohazards & Geotechnics Course 2019

Should you require further information on this event, please contact Patricia Slapp on p.slapp@sut.org Tel +61 8 9481 0999

To register please e-mail the information required on the registration form to perthevents@sut.org

Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee (GST excluded)</th>
<th>Fee (including GST)</th>
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<tbody>
<tr>
<td>SUT Members Early Bird (register and pay before 3rd May)</td>
<td>$420.00</td>
<td>$462.00</td>
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<tr>
<td>SUT Members (registration from 4th May 2019)</td>
<td>$477.27</td>
<td>$525.00</td>
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<td>Non Members Early Bird (register and pay before 3rd May)</td>
<td>$495.45</td>
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<tr>
<td>Non Members (registration from 4th May 2019)</td>
<td>$563.64</td>
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| SUT Student Member                             | $172.73            | $190.00 (limited places available)

Fee includes - All refreshments and an electronic copy of the available presentations and videos are provided.

Not included - Hard copy presentations are not provided. Should these be required there is an additional fee of $66.

Preferred Payment Methods:

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

* Payment by Visa or MasterCard will carry a 1.5% surcharge / AMEX will carry a 2.75% surcharge.

Invoice: Please tick here to be invoiced

Joining Instructions:

Joining instructions will be e-mailed to the registered delegate (as shown on the registration form). All details of presenters and updates to the programme will be included in the joining instructions. Please bring along a laptop to view the presentations.

Transport During the Course:

Delegates are responsible for their own travel arrangements at the beginning and end of each day.

Cancellations:

Refunds will be made on written cancellation received up to ten 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 wish to nominate a substitute in their place at no charge.

CPD Hours: CPD hours can be claimed for this course, please keep flyer and receipt for auditing purposes.

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

Registration Form

Please e-mail completed form to p.slapp@sut.org

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