

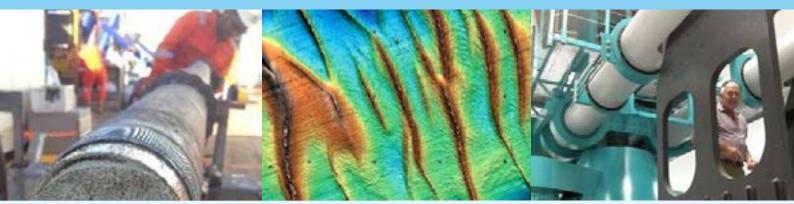
OSIGp Geohazards & Geotechnics Course

For Offshore O&G and Windfarm Developments

2 Day Course

THURSDAY 20 - FRIDAY 21 JULY, 2023

OceanWorks Lounge, The University of Western Australia



WHAT YOU CAN EXPECT FROM THE COURSE?

This course is an introduction to geoscience and geotechnical engineering, comprised of hand-picked topics that are relevant to general offshore developments, and also to developments sited on carbonate-rich areas. The course is delivered by industry and academic experts, and broadly covers the following:

- ► Introduction to the different geological environments present offshore Australia and in other regions, ranging from shallow water through to deep water.
- Overview of how an integrated ground model can be used to reduce risk and increase value of offshore projects.
- Presentations on best practice for the collection of data for site characterisation, design and geohazard mitigation.
- ► Introduction to engineering design and installation of subsea geotechnical infrastructure, including shallow foundations, deep foundations, anchors & pipelines, illustrated with numerous case histories.
- ► Laboratory tours at UWA to give 'hands on' experience of soil element testing and physical modelling (including UWA's centrifuge facilities and O-tube flumes).

WHY YOU SHOULD ATTEND THIS COURSE?

This two-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, with applications on offshore oil and gas and windfarm developments.

WHO SHOULD ATTEND?

The course is aimed at an audience with no or limited knowledge of geosciences. It is suitable for subsea and offshore operators and contractors from both the oil and gas and offshore renewable industries, anyone who is a part of the supply chain that supports the operation or maintenance of offshore and subsea systems, students and academics who want to learn about industry practices in offshore geotechnics, and those returning or new to the subsea industry.

COURSE SCHEDULE

DAV 1		DAY 2	EDIDAY 04 HILLY 0000		
DAY 1	THURSDAY 20 JULY 2023	08.30	FRIDAY 21 JULY 2023		
08.00 08.20	Registration SUT & delegate introduction, Housekeeping/safety	06.30	Lab tour		
08.30	Course Outline Michael Cocjin, Fugro - Overview/outline of course	10.30	Tea/Coffee break		
	- Role of G&G in offshore developments	10.45	Engineering Solutions 1 Fraser Bransby, UWA		
09.00	Experiences & Learnings Phil Watson, UWA Overview of legacy projects and learnings from Northwest Shelf		 - subsea mudmats - flowlines/pipelines inc. pipeline stabilisation - subsea cables - foundations for floating facilities (inc. risers, mooring, and 		
09.45	OWF Developments in Australia Owen Wilson (NOPSEMA)/ Andrew Grime (Arup/UWA)		foundations		
	Short overview of planned OWF developments in Australia, project status/timelines, challenges (project delivery, supply chains, etc.	11.30	Engineering Solutions 2 Carl Erbrich, Fugro - jacket foundations - foundations for wind turbines and generators - jack-ups		
10.30	Morning Tea		- seismic design		
10.45	Design Philosophy Laith Tapper, NGI Overview of a typical offshore projects looking at the following:	12.15	Lunch		
	- project timeline- project risks- design considerations	13.00	Sediment Transport & Scour Scott Draper (UWA)/Matt / (MMA Offshore) - sediment transport and scour		
11.30	Geological Framework 1 Rosine Riera, NGI		- engineered scour protection		
11.50	- definition and fundamentals of geology and sedimentology - regional NWS geomorphology, stratigraphy and sediments	13.45	Designing for Installation Rick Gillinder, Fugro - O&G related		
12.15	Lunch		- pipelines & flowlines- shallow foundations (suction buckets)- deep foundations		
13.00	Geological Framework TBC	14.30	Installation of Floating Wind Land Co. Co.		
	Regional NSW/Victoria/WA geomorphology, stratigraphy and sediments	14.50	Installation of Floating Wind John Morton, 2HOffshore - OWF related - monopiles and turbines - subsea cables		
13.45	Geohazards Kevin Day, Ten Point Interpretation - What is a geohazard?				
	- Static geohazards - Dynamic geohazards - Geohazard assessment	15.15	Afternoon Tea		
	- deonazaru assessment	15.30	Future Horizons Phil Watson, UWA		
14.45	Afternoon Tea		- new technonology / R&D - big data		
15.00	Site Characterisation 1 Damon Sunderland, Arup ground modelling		 autonomous/robotics surveys geotechnics from geophysics integrated system design 		
	- SI planning process - positioning				
	- geomatics & mapping-	16.30	Course Wrap-up & Certification Michael Cocjin, Fugro		
	- metocean data & climate- geophysical acquisition- geotechnical acquisition		- certification - feedback		
15.45	Site Characterisation 2 Cathal Colreavy, NGI	Thanl	Thankyou to our presenting companies:		
	 sampling techniques/disturbance soil logging 				
	- laboratory tests for soil characterisation - data integration and reporting	AR	UP fuse NG		
16.30	Networking Event		M)		

REGISTRATION FORM

21 June 2023 will be charged at the standard rate.

Please submit your registration to:

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

OSIGp Geohazards & Geotechnics Course for Offshore O&G and Windfarm Developments 20-21 July 23

SUT Membership Numb	ner		PAYMENT INFORMATION: Please invoice (PO NO.) or Credit Card		
Full name	,,,,,				
Job title					
Organisation/company					
Address			Credit card Mastercard, Visa or AMEX* ONLY.		
City			*Payment by AMEX wil carry a 2.75% & Visa 1.5% surcharge • Amex • Mastercard • Visa		
<u>County</u> Postcode			Card number		
Telephone			Card holder's name		
Email			Signature	Expiry date	
Signature			Start date	Issue number	
			Security Code (last 3	3 digits on the back of your card):	
Course fees inc GST: (ple	ease tick)		Email address to send receipt:		
Member Early Bird Member	\$1,200 AUD \$1,495 AUD				
Non-member EB \$1,430 AUD \(\bigcup \) Non-member \$1,780 AUD \(\bigcup \)			Please tick here	e if you do not want to receive our weekly newsletter.	
Student Member	\$480 AUD		Diagon list any dista	ru raguiramanta vau hava	
The prices above are inclusive of 0	GST		Please list any dieta	ry requirements you have:	
Early Bird rates apply to all booking	ngs paid by 20 June 2023.	-			

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.