



Awards and Graduations

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Large O-Tube

The achievements of the UWA O-Tube team were recognised by two awards during 2012. David White and Scott Draper with colleagues Liang Cheng and Hongwei An from the School of Civil & Resource Engineering at UWA won the Innovation and Development category of the 2012 WA Engineering Excellence Awards for the O-Tube Program – studying the effects of cyclones on subsea pipelines. The O-Tube also won the Subsea Energy Australia Industry Innovation and Technology award. This research is crucial for Australia's massive oil and gas industry, which plans to install an estimated 3000km of offshore pipelines worth more than \$15 billion over the next 10 years.

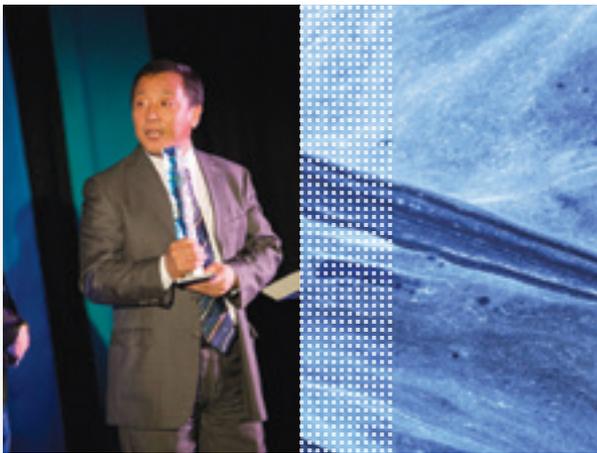


Figure 116: Liang Cheng accepting the award

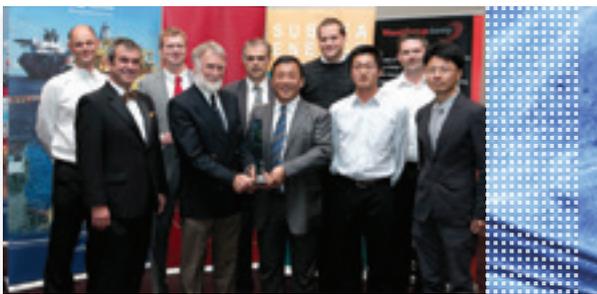


Figure 117: Liang with the O-Tube team

BGA Medal

David White was awarded the British Geotechnical Association (BGA) Medal for his paper, co-authored with Johnny Cheuk (a former visitor to COFS, now with AECOM, Hong Kong):

- Cheuk, C.Y. and White, D.J. (2011) Modelling the dynamic embedment of seabed pipelines, *Geotechnique*, **61**(1): 39-57.

The medal is awarded annually by the BGA for the best geotechnical engineering paper published each year. The medal was presented at the BGA Annual General Meeting in September, at the Institution of Civil Engineers, London, UK.

Dave has now been awarded the BGA medal on three occasions in his career – a record exceeded only by COFS' Winthrop Professor Mark Randolph, who has won it four times.

Geotechnical Research Medal

Christophe Gaudin was awarded the Geotechnical Research Medal for his paper, co-authored by Britta Bienen and Mark Cassidy:

- Gaudin, C., Bienen, B. and Cassidy, M.J. (2011) Investigation of the potential of bottom water jetting to ease spudcan extraction in soft clay, *Geotechnique*, **61**(12): 1043-4054.

This medal is awarded by the Institution of Civil Engineers annually for the best paper published in any ICE Proceedings each year in the field of geotechnical research.

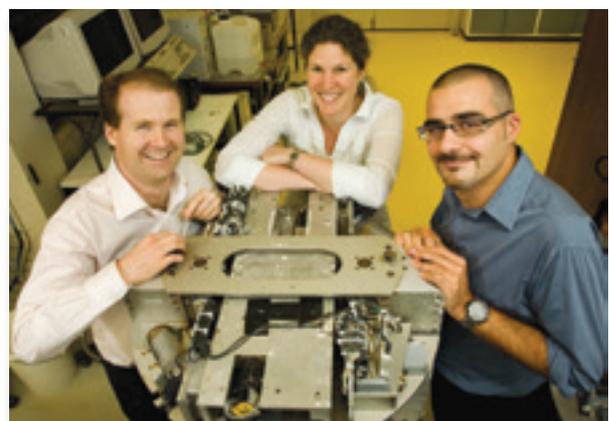


Figure 118: Mark Cassidy, Britta Bienen and Christophe Gaudin

ASCE Civil Engineering Best Paper Award

ARC Postdoctoral Fellow Assistant Professor Shazzad Hossain, ARC Future Fellow Professor Mark Cassidy and their co-authors were awarded the American Society of Civil Engineers (ASCE) Best Civil Engineering Paper Award at Houston's annual Offshore Technology Conference (OTC) for 2012.

Their paper, "Foundation modelling and assessment in the new ISO Standard 19905-1" (paper number OTC 23521 2012), provides a summary of the most recent ISO guidelines for site specific (geotechnical) assessment of mobile offshore jack-up rigs.



Figure 119: Shazzad Hossain receiving the award

Outreach for Engineers Scholarship

Neyamat Ullah was awarded \$600 to cover the cost of the registration for the 2012 OMAE conference. The prize was funded by the OOA Division of ASME-IPTI. The scholarships are open to early career professionals and students from around the world.



Figure 120: Neyamat Ullah receives the prize from Professor Jon Mikkelsen the Chairmen of ASME, OOA division

Australian Gas Innovation Award Commendation

Bassem Youssef received the Australian Gas Innovation Award Commendation. He was recognised for his unique pipeline on-bottom stability simulation program, developed as part of his PhD study. This provides pipeline engineers with a reliable and accurate pipeline design tool capable of a 3D simulation of offshore pipelines under the action of wave and current loading. Bassem passed his thesis on the integrated stability analysis of offshore pipelines in May 2012.



Figure 121: Bassem Youssef with his award

Vickie Kong graduates

After 4 years of hard work (and fun), in 2012 Vickie Kong completed her PhD study on the topic of Jack-up reinstallation near existing footprints.

Jack-up reinstallation near an existing footprint is a problematic operation and can lead to structural failures. Her study reports a comprehensive series of experimental investigation on three governing parameters: footprint geometry, soil strength and structural properties of jack-up (in which a novel real-time hybrid testing method is introduced). With an improved knowledge of the role of these parameters, a simplified prediction method was developed and the effectiveness of some mitigation measures was assessed.

The encouragement and help from her supervisors, Mark Cassidy and Christophe Gaudin are gratefully acknowledged! Dr Kong is also very fondly remembered by all the technicians for her great achievement in experimental investigation which led to the damage and injury of numerous strain gauges and encoders.



Figure 122: Vickie at her graduation ceremony



Figure 123: Vickie (in the centre) with Mark Cassidy and other students and visitors from COFS