



Vancouver Geotechnical Society

A Local Section of the Canadian Geotechnical Society

www.v-g-s.ca

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NOTICE OF UPCOMING DINNER PRESENTATION

CANADIAN GEOTECHNICAL SOCIETY

2014 SPRING CROSS CANADA LECTURE TOUR

THURSDAY, NOVEMBER 27, 2014

SUBJECT: Offshore foundation systems – Role of geotechnical centrifuge modelling

SPEAKER: Ryan Phillips Ph.D, P.Eng., FEIC,
Principal Consultant, Geotechnical Engineering



Dr. Ryan Phillips is Principal Consultant for geotechnical engineering at C-CORE and Director of their Dr Jack Clark Geotechnical Centrifuge Facility in St. John's, Newfoundland. Ryan obtained his doctorate from Cambridge University under Professor Andrew Schofield, where he managed their centrifuge centre until joining C-CORE in 1993. Ryan has over 25 years of experience in physical modelling in geotechnics. He has helped solve engineering issues related to offshore foundation systems and onshore structures, such as pipelines. Ryan also holds a cross-appointment as an Associate Professor in Faculty of Engineering & Applied Science at Memorial University, has over 180 publications, and has received the CGS Stermac, Quigley and Meyerhof Awards.

He represents the Canadian Geotechnical Society as an executive Member and past chair of ISSMGE Technical Committee TC104 on Physical Modelling in Geotechnics, and is an Associate Editor for both the Canadian Geotechnical Journal and International Journal of Geotechnical Physical Modelling. Ryan is a board member of the Canadian Foundation for Geotechnique. He is a Fellow of the Engineering Institute of Canada and a recipient of their CPR Engineering Medal for his service to CGS.

CONTENT

Offshore geotechnical engineering needs physical measurements to calibrate designs. Centrifuge modelling is increasingly accepted by industry to provide such a data source. An overview of centrifuge scaling principles and limitations will be presented. Several actual applications will be described, including jacket pile foundations, suction caissons, riser-seabed interaction and pipeline design against ice gouging. The results provided important insight into prototype behaviour and agree well with available full scale measurements.

DETAILS

Executive Inn, 4201 Lougheed Highway, Burnaby, BC V5C 3Y6 (Phone: 604-298-2010)

Social Hour: 5:30 to 6:30 pm (drinks available at the hotel bar)

Technical Presentation: 6:30 to 7:30 pm

Dinner: 7:45 pm (\$30 will be charged for dinner)

RSVP: Dinner reservation to Robyn.Barnett@tetrattech.com or at the door with Robyn Barnett

The VGS would like to thank the following companies (in alphabetical order) for financially sponsoring this Cross Canada Lecture Tour:

- *AMEC*
- *BGC Engineering Inc.*
- *GOLDER ASSOCIATES*
- *INSITU CONTRACTORS INC.*

The Cross Canada Lecture Tour is organized by the Canadian Geotechnical Society and its various local sections, and travel funds are provided by the Canadian Foundation for Geotechnique.