

Here's what's happening in the

# BASIN & RESERVOIR LAB

Professor Grant Wach

February — July 2018

Editor: Trudy Lewis (Trudy.lewis@dal.ca)

## Trinidad - ERTH 4157: Petroleum Geoscience Field Methods



Grant Wach, along with Students from the ERTH 4157 / 5157 classes, arrived at the Pax Guesthouse in St. Augustine, Trinidad on Sunday February 18th. The Petroleum Geoscience Field Methods Course is an intensive field-based course which comprises over 80 hours of field, laboratory and classroom study.

## AAPG European Regional Conference

The AAPG European Regional Conference, which was held in Lisbon, in May, brought together oil industry exploration professionals and academic, as well as, independent researchers, to discuss how to approach the Atlantic Margins using global analogues. Professor Grant Wach attended this one-day conference and gave an oral presentation entitled "Mesozoic Stratigraphy of the Central Atlantic Margins: what can we learn about key petroleum system elements."



Registration Now Open

- Themes:
- Geodynamics - Rift to Drift
  - Stratigraphy and Sedimentology
  - Regional Geology
  - Geochemistry and Petroleum Systems
  - Exploration Thinking for the Atlantic Conjugate Margins

Geoscience Datarooms

Pre-Meeting Excursions and Salt Course

Post-Meeting Course and Core Workshop

[www.conjugatemargins.com](http://www.conjugatemargins.com)



## Successful M.Sc. Thesis Defense



Congratulations to Taylor Campbell who has successfully defended her M.Sc. thesis entitled; Seismic stratigraphy and architecture of the Jurassic Abenaki margin, at Cohasset-Migrant, and potential for distal organic-rich facies. Dr. Laurence Davies joined us from Husky Energy as Taylor's external examiner. Congratulations Taylor! Wishing you much success in all future endeavors!

## A Special Thank You

On behalf of Dalhousie University and Acadia University, Prof. Grant Wach would like to thank the Nova Scotia Government, Shell and Imperial Oil for their financial support of our efforts in petroleum education and training for our students. In Trinidad we are especially grateful to Petrotrin, BP, Trinity, University of the West Indies and the Canadian High Commission. The continued growth of our programmes at Dalhousie reflects your generous support.

## Dirt Talk Presentation

As part of the DIRT Talks held at Dalhousie University in the Life Sciences Centre, on February 9th, Kenneth Martyns-Yellowe, MSc. Earth Sciences Candidate, presented his work entitled *Formation Evaluation Methodology: An analysis of the CO-157 Borehole - Trinidad*.

## CSPG University Outreach Lecture

On March 20th Bryce Jablonski, Geoscientist, from Devon Energy presented a lecture entitled *Evolving Towards the Modern Geoscientist in the Petroleum Industry* as part of CSPG's East Coast lecture tour. His lecture focused on what a newly graduated geologist actually does, what skills, directions and technologies benefit today's new geologists, and what additional areas of study (tech, economics, engineering etc) can help broaden a new geologist's prospects.



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## 2018 NAPSA Workshop

In June, Grant Wach and Darragh O'Connor attended the North Atlantic Petroleum Systems Workshop which was held in St. John's, Newfoundland. The one-day workshop focused on the Orphan/Flemish and Porcupine / Rockall basins. Sessions consisted of; Basin evolution and architecture; Source rock, geochemistry and thermal histories; and, Reservoirs and play concepts.

## Atlantic Geoscience Society Presentations—February 2018

J. Carlos Wong—Petroleum System Modelling of Potential Lower Jurassic Source Rocks along the Scotian Margin

Darragh O'Connor - Sedimentological evidence for Late Triassic (Rhaetian) marine incursion in the Central Atlantic Margin

Trevor B. Kelly - Three-dimensional seismic geomorphology of paralic channel systems, Sable Sub-basin, offshore Nova Scotia

Grant Wach - Assessing methane emissions from legacy fossil resource development and methane mitigation potential in Atlantic Canada Nova Scotia (GaSP- Gas Seepage Project);

Grant Wach - Geologic characterization and historical context for the Gas Seepage Project (GaSP) study areas in the Maritimes Basin

Ricardo L. Silva - Lower Jurassic organic matter preservation events and their record offshore Nova Scotia

## Sedimentary Geology Field Trip

In May, along with a group of other graduate students from the Earth Sciences Department, Kenneth Martyns-Yellowe travelled to Chile to view the sedimentary successions and mines of the Parinacota, the Barros Arana, and the Andes mountain ranges. This trip was funded in part by the Shell Educational Learning Fund (SELF) of the Earth Sciences Department.



## CNSOPB Geosciences Research Center



Trevor Kelly and Kenneth Martyns-Yellowe have been visiting Canada-Nova Scotia Offshore Petroleum Board Geosciences Research Center to examine cores. Trevor's research was to examine core from the Logan Canyon Formation; and, Kenneth was looking at core from the Migrant area as well as sidewall cores. Both collected permeability data (using TinyPerm) and XRF data. They also logged and described the core, noting lithology, grain size, depositional environments, etc. Core photos were taken as well.



## IN THE NEWS

In an interview led by Sarah Ritchie of Global News, Grant Wach discussed the Ottawa-based Council of Canadians mustering of opposition to oil and gas opposition offshore and the lack of public engagement and consultation.

## EAGE Laurie Dake Challenge

Dalhousie Earth Science team of Masoud Aali, Graham Kerford and Jennifer Lee



and Jennifer Lee competed in the World Finals of the European Association of Geologists and Engineers (EAGE) in Copenhagen! Over 50 teams from around the globe vied for the opportunity to compete with 8 teams making the finals.

Each team spent several months completing a geological and engineering analysis of a complex oil and gas field in the North Sea and then were questioned on their analysis by a team of experts. We are pleased to announce; the team did exceptionally well resulting in a 3rd place win! Congratulations Team! We would like to thank all Alumni, Adjuncts and Industry Advisors whom, through their efforts and support, have contributed greatly to the success, both nationally and internationally, with the Petroleum Geoscience Program.