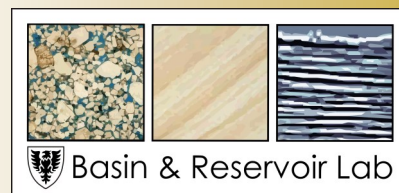


# October 2019

## What's New



Professor Grant Wach

Edited by: Trudy D. Lewis: Trudy.Lewis@dal.ca

### Energy 3: Canada's Energy Conference

Energy3: Canada's Energy Conference was held at the Halifax Convention Centre October 16<sup>th</sup>—18<sup>th</sup>. Darragh O'Connor, Max Angel and Kenneth Martyns-Yellowe gave the following presentations:

- Oral presentation by **Darragh O'Connor** entitled "Dynamic Modeling of Buoyant Fluid Flow in Rollover Anticlines, Offshore Nova Scotia, Canada: Implications for Hydrocarbon Distribution, Potential Carbon Capture and Storage (CCS) and Future Activity in the Sable Subbasin"
- Poster presentation by **Max Angel** entitled "Cost Scoping Analysis of Future Carbon Capture and Storage (CCS) in the Sable Subbasin"
- Poster Presentation by **Kenneth Martyns-Yellowe** entitled "Integrated Structural, Stratigraphic and Formation Evaluation of the Migrant Structure, Sable Subbasin, Offshore Nova Scotia"
- Science Slam presentation by **Max Angel** entitled "A Demonstration of Trapping CO<sub>2</sub> in the Deep Subsurface". Max finished 2nd of 10 in Energy3 Science Slam for his presentation of a water tank simulation of how CO<sub>2</sub> is captured in the subsurface geology offshore.

Many thanks to **Bill Richards & Neil Watson** for their great help with these projects!



### United Arab Emirates

On a recent trip to United Arab Emirates, Professor Grant Wach was a member of the accreditation commission. Immediately following, he travelled to Abu Dhabi where he presented a lecture, at Khalifa University, to the Petroleum Institute and then continued on to Dubai.



Left to Right: Thomas Gilmore, Grant Wach, Judith Buchanan, William Higher, Provost: Professor Ghaleb Ali Al Hadrami Al Breiki, Peter Wade, Frank Neubrandner, Jamil Khalifeh & David Raffaelli

### Congratulations!

On October 8th, Fall Convocation took place at the Halifax Convention Centre. We would like to congratulate all members of the Class of 2019; including **Maxwell Angel** who received his B.Sc. in Earth and Environmental Sciences! Congratulations Max!



## World UN Day and UNESCO



Dr Elisabeth Kusters

Dr. Elisabeth Kusters was inducted as a "Keeper of the Cliffs" at Joggins Fossil Cliffs (a UNESCO World Heritage site) on October 24th. Honoring Dr Kusters, Professor Grant Wach attended a United Nations Day Luncheon, as part of the Scientific Advisory Council, in celebration of the world United Nations Day and UNESCO.

UN Day marks the anniversary of the day, in 1945, when the United Nations officially came into being.

UNESCO is the United Nations Educational, Scientific and Cultural Organization which seeks to build peace through international cooperation in Education, the Sciences and Culture with programs contributing to the achievement of the Sustainable Development Goals. It was adopted by the UN General Assembly in 2015.

Dr. Kusters is an experienced Geoscientist who lives in the Minas Basin area where she works as an independent since her retirement in 2002. She completed her BSc and MSc in the Netherlands and then moved to the US where she worked for the Louisiana Geological Survey in the Mississippi Delta Plain; where she completed her PhD on parameters of peat formation in the Mississippi Delta. She was an Adjunct Professor (sedimentology) at Acadia and Dalhousie University, and was executive director of CFES. In addition to this, she ran field schools for the petroleum industry in both Nova Scotia and PEI.

## Visitors to the Lab



On October 24th, Darragh O'Connor and Trevor Kelly met with René Dam Pedersen, Lead Geoscientist/Technical Sales at Cegal LLC and Neil McKone, Canada Manager at Blueback Reservoir Canada. We would like to thank BlueBack (Cegal) for their most generous donation of Seismic Inversion software.

## Gerald M. Friedman Award



The Gerald M. Friedman Award of Excellence in Oil History Presentation, for 2019, was awarded to Grant Wach by the Petroleum History Institute.

## Dr. Victoria Arbour

We would like to congratulate Dr. Victoria Arbour on her hard work and her newest journal publication. A Dalhousie Alumnist, and author of *A new leptoceratopsid dinosaur from Maastrichtian-aged deposits of the Sustut Basin, northern British Columbia, Canada*, Dr. Arbour, recently visited Halifax as part of a Panel Discussion (Understanding our World through Comics and Graphic Novels) which was held at the Museum of Natural History on October 30th.

Dr. Arbour is known to many for having identified a new species of prehistoric flying reptile from a fossil found in the Sustut Basin of northern British Columbia, the pterosaur *Gwawinapterus beardi*. She is the Curator of Palaeontology at Royal British Columbia Museum, has become well known from her work describing the new dinosaur *Zuul*; she also uses drawing extensively in her public education work and personal learning.



Milton Graves (Honours Supervisor), Dr. Victoria Arbour & Grant Wach

## Welcome

We would like to welcome Lauren Morris, the newest member of our team, to the Basin and Reservoir Lab! Lauren graduated on the Dean's List with her BSc in Earth Sciences and Biology in 2019 and will be working, as a Research Assistant, with Isle of Wight samples as well as preparing Lab material for Grant Wach's Stratigraphy class.



## Accepted for Publication

**Silva, R.L.**, Wach, G., Hesselbo, S., O'Connor, D., Total organic carbon and Rock-Eval characterisation of the Lower Cretaceous in Compton Bay, Isle of Wight (southern England). *Proceedings of the Geologists' Association*. (In Press)

**Silva, R.L.**, Duarte, L.V., Wach, G., Morrison, N., Campbell, T., Oceanic organic carbon as a possible first-order control on the carbon cycle during the Bathonian–Callovian. *Global and Planetary Change*. (In Press)

## Cape Split Field Trip



Grant Wach lead a field trip, for the Dawson Club, to Cape Split exploring the geodynamics and plate reconstructions of the coastal outcrops of the Paleozoic and Mesozoic basins.



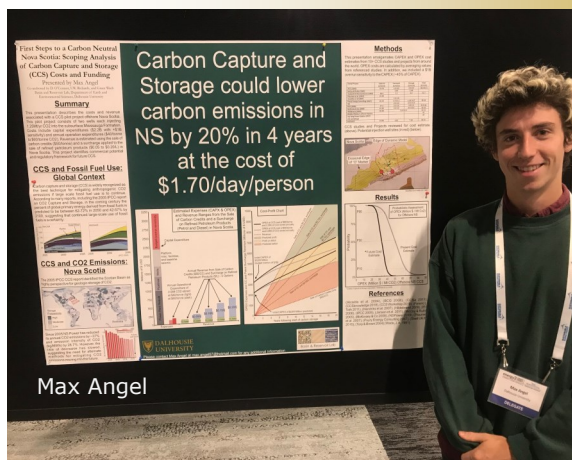
## The Photo Corner



Grant Wach with Professor Flavia Fiorini in Abu Dhabi, United Arab Emirates after his lecture at Khalifa University October 3rd. Dr. Fiorini is Professor at Khalifa University and was a post/doctoral fellow in our department with Professors David Scott (Emeritus) and Grant Wach



Dalhousie University Convocation 2019



Max Angel

## Upcoming Events



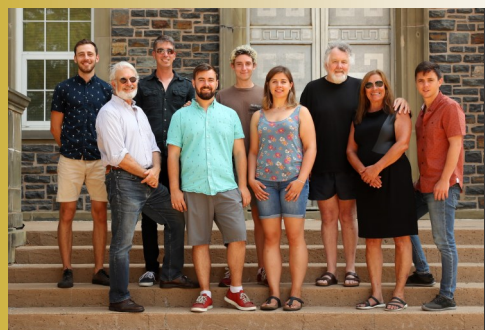
**Society of Petroleum Engineers**  
**Maritimes Section**

John Kaldi—Professor of Petroleum Geology and Engineering at the Australian School of Petroleum, University of Adelaide

Tuesday, November 19, 2019

Dalhousie University—8th Floor—Milligan Room—LSC— 1100h

Integrated Approaches to Determining Net Pay: Caveats & Lessons Learned



**From the Basin & Reservoir Team;**  
***"Thank-you"***  
**For Your Continued Support!**