DALHOUSIE UNIVERSITY

February—March 2020

Basin & Reservoir Lab

Professor Grant Wach

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Dr. Genevieve Bordeleau CSPG Distinguished Lecturer

Dr. Genevieve Bordeleau's Distinguished Lecture, on shale gas and ground water, was well attended.

Lauren Morris and Max Angel presented her with a copy of the Last Billion Years and a scarf of Nova Scotian tartan.

Welcome to the Team!

We would like to extend a warm welcome Cambria Huff who has recently joined our Team as Library and Data Collections – Reference Librarian!

Dirt Talk

On Friday, 13 Mar, Dr. Tim Fedak presented his DIRT Talk which was titled ``*Letters to Dawson – History of Nova Scotia Geoscience (1840-1860)*`` at Dalhousie University, LSC building.

Atlantic Geoscience Society PRESENTATIONS

The Basin & Reservoir Lab Research Staff presented at the AGS conference that was held in Truro, Nova Scotia on February 7-8.

Max Angel:

Using Ground-Penetrating Radar to Identify Known and Unknown Graves at the Church of the Holy Spirit Cemetery, Lakelands, Hants County, Nova Scotia, in the session on the Current Research in Hydrogeology and Environmental Geology in Atlantic Canada

Lauren Morris

Gave a poster presentation, related to Remote Sensing of Transgressive Shorelines and Erosion Due to Rising Sea Levels

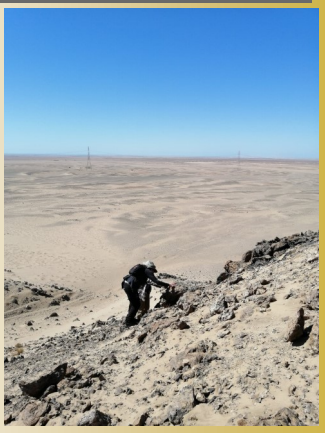
Trevor Kelly:

The difficulties and limitations of a ground-penetrating radar study of the Joggins Formation, Joggins, Nova Scotia

Trevor Kelly, on a recent visit in March to the core library in Stellarton, deployed his track-mounted cart system to take panoramic core photographs.These photographs will be used for core description purposes, imported to ALT CoreCad and Schulmberger Petrel, and correlated with gamma log and outcrop measured sections.

KAUST Research Geothermal Conference

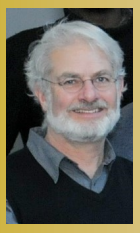
Max Angel and Grant Wach travelled to Jeddah, Saudi Arabia to participate in the KAUST Research Conference: Maturing Geothermal Energy for Saudi Arabia on January 27—29th. The conference discussed all forms of geothermal energy, as well as carbon capture and storage and the world's future of energy. The two had the opportunity to tour some of the amazing facilities while at KAUST, including an experimental greenhouse and a water desalination and reuse plant. After the conference, they departed for Al Wahj where they spent two days in the field with Dr. Volker Vahrenkamp along with Alexander Petrovic, a Post-Doc at KAUST. The team worked along the coast looking at the gravel fans / inter-fingering with modern carbonates in order to help build a geologic history and method of formation for the modern carbonates.



KAUST PRESENTATIONS

Max Angel:

Reducing Future Carbon Emissions: A Scoping Analysis of Carbon Capture and Storage (CCS) Costs and Funding



Grant Wach:

Rift and Synrift Sediment Distribution in the Paleozoic and Mesozoic Basins of the Atlantic Canadian Margin - CCUS (Carbon Capture, Utilization, and Storage), CAES (Compressed Air Energy Storage) and Geothermal Potential

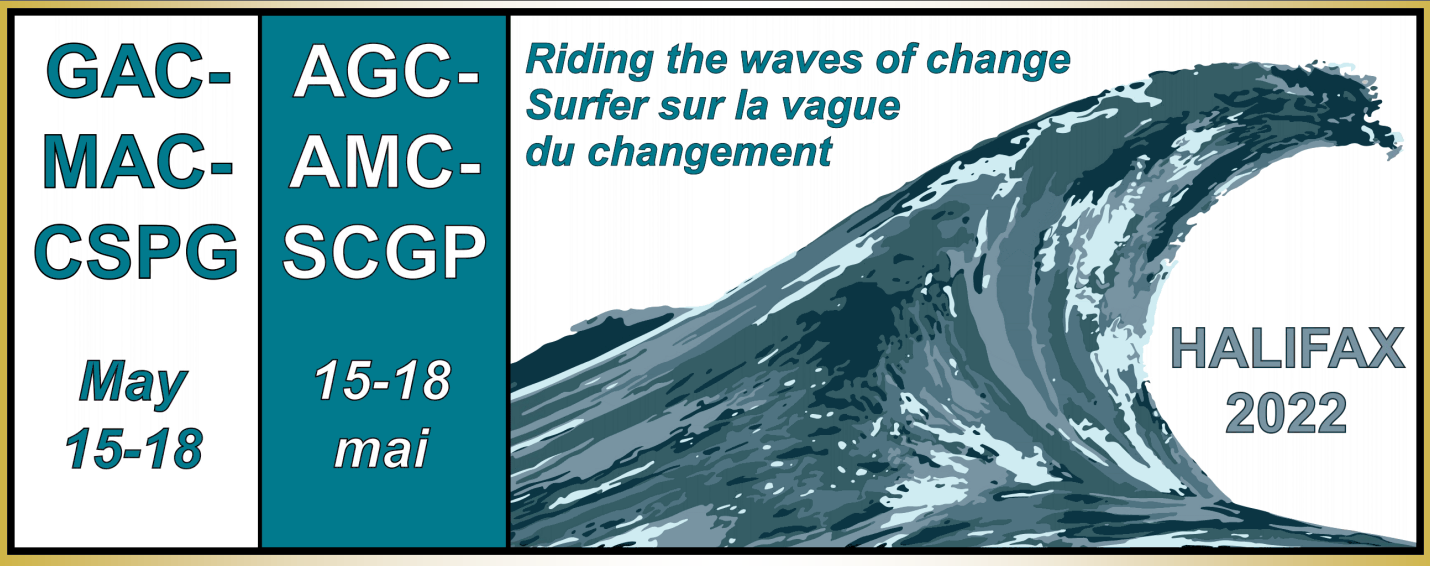
Geothermal Workshop

Grant Wach presented at the Geothermal Workshop on January 23 at the University of Waterloo. The workshop focused on the future of geothermal energy implementation in Canada.

82nd EAGE Annual Conference & Exhibition

In view of the COVID19 pandemic, the EAGE Annual Conference & Exhibition that was to be held in Amsterdam on 8—11 June, has been canceled and rescheduled for December 2020.

SAVE THE DATE



Earth Ring Ceremony

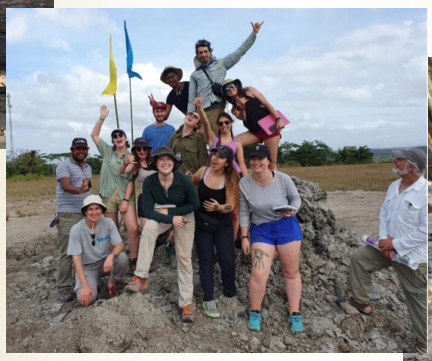
We recognise that these are trying and taxing times across the globe and rapid changes are occurring daily if not hourly. It is has taken an extraordinary event such as the COVID 19 Virus to have us cancel the 20th Earth Ring ceremony and dinner, but we do want to recognise the significance of our graduates accomplishments and include for you the significance of the Earth Ring. This year`s recipients: **Bay Berry, Taylor Gregory, Jonathan Kabiito, Jessica Mignault, Olivia Rolfe, Graeme Wach and Past Graduate, Tom Duffett.**

The Ring which you will be wearing is symbolic of your chosen profession. The Ring should be worn on your working hand so those who know the significance of the Ring may recognize it. The Ring is new and shiny, bright as are new ideas you will discover, and your degrees. The circle of the Ring represents the Globe and is marked with the crossed hammers of geology, with the seismic trace of geophysics - signifying both the surface and subsurface quest for the Earth's knowledge. You have been asked if you understand the path you have chosen to be an Earth Scientist and if you also recognise through your education that there is much that is unknown. We ask that you recognise your lawful and ethical responsibility to yourself, your peers, your employer and most importantly society. We ask that you perform your tasks during your career with these ethics guiding you, even though the right path can be obscured and there may be penalties for the wrong choices. You should always strive for these goals, and when your life is run, your labours will reflect that you carried out your work, your craft, to the highest of standards and pride. We welcome you to the joy and fellowship, the effort and the reward of our profession, followed in honour and perfected in integrity. You are now, as those who at another time have stood before their equals, obligated Geoscientists. Congratulations!

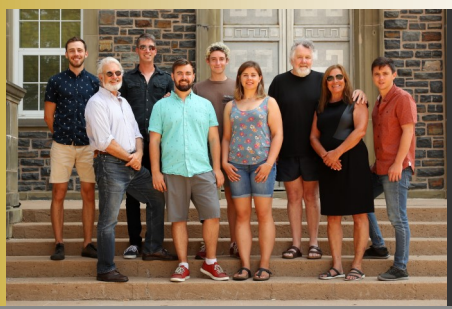
ERTH 4157—**Petroleum Geoscience Field Methods Course**

In Mid February, for the 20th year, the Petroleum Geoscience Field Methods course was held in Trinidad Tobaggo.

A select group of ten Dalhousie students attended the field course taught by Professor Grant Wach, Lauren Morris as Teaching and Field Assistant, and Yana Fedortchouk as an additional instructor. The group was joined by Xavier Moonan, Dr. Hasley Vincent and colleagues from UWI, Touchstone, Heritage and Shell.



Learning valuable skills pertaining to core and outcrop logging, and gamma ray and seismic interpretation, students return with a new take on the petroleum industry. On its 20th run through, the trip remains a comprehensive course for understanding petroleum systems, and provides students with one of the best experiences of their degree.



The Basin & Reservoir Team Would Like to Thank You for Your Continued Support!