

What's happening in the

BASIN & RESERVOIR LAB



Basin & Reservoir Lab

Professor Grant Wach & Dr. Ricardo Silva

April 2015

Dalhousie IBA team, Dawson Energy, ties for 4th in 2015 AAPG Competition



Prof. Wach, Annie Causer, Stephanie Wenker, Phil Sedore, Billy Garrison, and Paige Montgomery

After a taxing two months of hard work, Dalhousie's IBA team competed in Calgary for the IBA title on March 27th, 2015. Up against stiff competition, Dawson Energy tied for fourth place along side the University of Alberta and McMaster University. First place went to Queens University, who will represent Canada at the 2015 AAPG

Annual Convention and Exhibition in Denver, Colorado this May. A special thank you goes out to Adjunct Professor Bill Richards who shared both his time and expertise as the team's coach.

Shell announces additional \$600K for hands-on Dalhousie Learning Initiatives



On March 25th, Shell announced it's renewed support of \$600,000 over the next three years in support of hands-on learning initiatives offered at Dalhousie in the Sciences, Engineering, and Management faculties. The funding allows students to experience and participate in unique learning opportunities that take them well outside the boundaries of the classroom. The Shell Canada Campus Ambassador Program supports several Canadian universities, and without it students would not benefit from the experiential and extracurricular learning it provides, like the three day field trip Earth Science students participate in each September, or the Petroleum Systems course, where students travel to Trinidad & Tobago to gain considerable first-hand field experience. \$100,000 of the initiative will help establish a new Offshore Energy Fund to support student learning opportunities related to offshore oil and gas exploration and development.

Upcoming Events

- Source Rock and Geochemistry of the Central Atlantic Margins Consortia Field Seminar of the Wessex Basin of Southern England, followed by field work in Morocco (see page 2)
- Lab members prepare for 2015 EAGE FIELD Challenge in Madrid, Spain., June 1st - 4th. The data was donated by Repsol, and focuses on the Poseidon development in the Gulf of Cadiz
- End of the year B&R Lab dinner, Monday, April 13th, 2015 @ the Argyle

B&R Lab Member Profile



Get to know

Master of Science Student Carla Dickson



M. Sc. Earth Science Candidate, Dalhousie University (2016)

B.Sc. Earth Sciences, 1st Class Honours, Dalhousie University (2013)

B.Sc. Biology, Dalhousie University (2009)

This month, we are highlighting Dalhousie M.Sc. Earth Science candidate Carla Dickson, who joined the Basin & Reservoir Lab in 2012 as an undergraduate research assistant. In 2012, Carla competed in the AAPG Imperial Barrel Award competition, and served as the President of the Dalhousie University AAPG Student Chapter. After spending the summer of 2013 as an intern at Husky, Carla began her M.Sc. studies focusing on overpressure conditions and reservoir compartmentalization on the Scotian Margin, which she presented at the 2013 CSEG GeoConvention in Calgary, Alberta.

This past fall Carla traveled to Ireland to present her research, "Reservoir Connectivity and Overpressure — Sable Subbasin (NS) and Porcupine Basin (IRE)", supported by Ireland's Petroleum Infrastructure Programme. Carla is currently the Treasurer of the Dalhousie University AAPG Student Chapter, and has contributed significantly to the ongoing discussion on Divest Dal initiatives. Since becoming a student in 2009, Carla has been awarded numerous scholarships and bursaries and is the AAPG Young Professional Representative for Canada. This summer Carla will be working with Shell in Calgary working as a Geology Intern in the Deep Basin Field, returning this fall to complete her studies.

Lab welcomes summer co-op students



The Lab is happy to welcome Earth Science student Maya Soukup (above) and returning co-op student Phillip Sedore to the team this summer as co-op research assistants. Both will work along side Prof. Grant Wach and Dr. Ricardo Silva, in support of the Source Rock and Geochemistry of the Central Atlantic Margins Project.

Source Rock and Geochemistry of the Central Atlantic Margins Consortia:

Field Seminar of the Wessex Basin of Southern England June 5-9, 2015

This June, Prof. Grant Wach and Dr. Ricardo Silva will lead a five day field seminar to the Wessex Basin of Southern England, exploring basin development and hydrocarbon systems of the Mesozoic and Cenozoic strata. The transect will examine outcrops of Triassic, Jurassic, Cretaceous, and Tertiary rocks along the South Coast of England, highlighting the elements of source, reservoir, and seals, migration pathways, timing, and trapping mechanisms. For further information please visit our website (<http://www.dal.ca/faculty/science/earth-sciences/basin-reservoir-lab.html>).



Whitecliff Bay with the karst surface of the Bembridge Limestone, though the Lower Tertiary succession to the Upper Cretaceous Chalk forming the cliffs of Culver Down towards the south, Isle of Wight.



Kimmeridge Clay Formation showing regular rhythmic bedding and well-cemented 'stone bands'. The cycles represent orbital obliquity, or ~40 kyr (Weedon et al. 2004).