



May 2011

## LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

May 26th (Thursday) Presenters will be 1<sup>st</sup>-year Masters students Becca Lanners, Graham Wilson, Ziad Sedki and graduating seniors Tawnya Hildabrand and Heather Strickland. California State University, Long Beach, Department of Geological Sciences.

**will speak on:** Evaluation of Prospective Hydrocarbon Accumulations in the Bight Basin, Australia

### Abstract

The Imperial Barrel Award competition team was tasked with evaluating the vast offshore Bight Basin, on the southern continental margin of Australia. The study area is >2/3's of the size of California and the team was provided with several 2D seismic datasets and partially digital records from three exploratory wells. With this data, the team identified three petroleum systems and 6 plays in the Ceduna and Eyre sub-basins, with two leads potentially containing >500 MMBOE.

The Bight Basin is a Jurassic-Cenozoic rifted margin that evolved through five tectono-stratigraphic phases as it progressed from continental to marine depositional environments associated with the separation of Australia from India and Antarctica. The margin is characterized by sets of listric normal faults that are responsible for forming migration pathways and for forming many of the proposed structural traps for hydrocarbons. Potential source rocks include both deep marine and nonmarine (lacustrine and deltaic) facies, whereas most of the prospective reservoirs are deltaic and shallow marine. Plays in the Eyre sub-basin include compressional anticlines over basement and stratigraphic pinch out against basement in the Hammerhead Supersequence, as well as stratigraphic traps in progradational carbonate lenses of the Wobbegong Supersequence. In the larger Ceduna sub-basin, the team found fault-bounded and rollover anticlinal traps, as well as a forced-fold play over intrusive volcanic sills, laccoliths, and dikes in deltaic and shallow marine sands of the Hammerhead and Tiger Supersequences.

Plays were evaluated for risk and reward and an exploration and development plan is proposed in the context of Australian minerals law and procedures that could generate \$14 billion in net profits for the concern.

### Speaker's Biography

The presenters are all part of a petroleum exploration class at CSULB that participated in the Spring 2011 AAPG-sponsored Imperial Barrel Award (IBA) competition under the direction of Professor Rick Behl, with the consultation of several other industry and academic professionals. The presenters will be 1<sup>st</sup>-year Masters students Becca Lanners, Graham Wilson, Ziad Sedki and graduating seniors Tawnya Hildabrand and Heather Strickland. California State University Long Beach's Department of Geological Sciences is a strong, traditional geology program, emphasizing field training and geologic fundamentals, with three faculty members with experience in the petroleum industry. The Department is currently moving into a new, beautiful, built-to-design facility hosting offices, classrooms, dedicated teaching labs for mineralogy, petrology, geospatial computing and research labs in hydrogeology, environmental geochemistry, sedimentology, paleoclimatology, structural geology, and paleontology. In spite of severe budgetary constraints, the program is growing with 10 professors, 2 full-time lecturers, and 120 enrolled undergraduate and graduate majors and minors.

*Come and enjoy – the future Geologists of our area will be presenting!*

## Meeting Time, Place, Cost and Reservations

### Time:

**Thursday, May 26th, 2011**

### Typical Meeting Agenda

**Lunch Served: 11:30 AM to 12:00PM**  
**Announcements: 11:45 AM to 12:00 PM**  
**Guest Speaker: 12:00 PM to 12:30PM**  
**Questions/Close: 12:30 PM to 12:45 PM**

### Place:

**The Grand at Willow Street Conference Center** located at 4101 East Willow Street, Long Beach, CA. (562-426-0555). Take Lakewood Boulevard south from the San Diego Freeway (405), turn west onto Willow Street and turn right onto Grand Avenue at the sign for the Center. Park free in the garage structure.

### Cost:

**Lunch and Speaker: \$20.00 with reservations**  
**\$25.00 without reservations**  
**Student: FREE (Lunch and Speaker)**

### Meeting Reservations:

Make your reservations using our web site at [www.labgs.org](http://www.labgs.org), or by calling Becca Lanners at (562) 495-9310, or emailing [Becca\\_Lanners@oxy.com](mailto:Becca_Lanners@oxy.com)  
*Reservations made prior to Tuesday before the meeting is appreciated, but reservations up to the morning of the meeting will be honored.* As always walk-ons are welcome.

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