



## Santa Maria Section

Society of Petroleum Engineers

**BARRY BENNETT - DIRECTOR OF GEOSCIENCES  
Gushor Inc.**

### **“THE ORIGIN OF HEAVY OIL AND OIL SANDS DEPOSITS - LEARNING FROM ALBERTA”**

**This presentation will:**

Discuss the origin of reservoir and reservoir fluid heterogeneities that are ubiquitous in heavy oil and tar sand reservoirs.

Present a critique on the methods employed for measuring physical properties of heavy oil and bitumen and the approach for accurate hydrocarbon composition from oils and solvent extracts from cores and cuttings.

We will also examine the need for baseline studies using fresh core samples, preferably at rig side to generate real time viscosity profiles. Rapid decisions whether to perform fluid production testing can be made while the rig is in place and logging tools are being recovered.

How to exploit the natural heterogeneities in fluid properties to assess reservoir continuity, barrier versus baffles, production allocation, and time lapse geochemistry.

**Dr. Barry Bennett** is one of the co-founders of Gushor Inc., a Canadian integrated reservoir fluid characterization and reservoir engineering technology Company that specializes in oil sands and heavy oil recovery studies. Bennett is Gushor Inc's Director of Geoscience and is also a Professor at the University of Calgary. Barry developed many of the geochemical methods that adopt QA/QC protocol leading the way for a revolution in petroleum geochemistry. His current R&D focus is to develop novel schemes for well site fluid description and developing proxies for PVT, assay, physical property prediction and indicators for thermal conversion in SAGD and CSS systems. Barry received degrees in Geological Sciences (BSc), Organic petrology and Organic Geochemistry (MSc) and a PhD in Organic Geochemistry. Barry is an Associate Editor of the Journal of Marine and Petroleum Geology and is a member of APEGGA. Barry enjoys golf, football, travel and field geology.



**Date: 05/10/2011**

**Time: 11:30 am**

**Cost: \$24/person**

**Contact: Gayle Pratt**

Programs & Publicity  
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#### **Location Details:**

**Santa Maria Country Club  
505 W. Waller Way  
Santa Maria, CA 93455**

**Reply By May 4!**