

**Subject: Abstract for CMOS 2008**

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Hi all,

I have submitted the following abstract for the 2008 CMOS Congress in Kelowna, B.C.

**ROSE - Reflection Ocean Seismic Experiment**

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In the summer of 2007, the Government of Canada contracted a 6900 km multi-channel seismic (MCS) survey over the Sohm Abyssal Plain, south of Nova Scotia, with the intent to define Canadian jurisdiction of the seabed and its natural resources under Article 76 of the United Nations Convention on the Law of the Sea (UNCLOS). The survey lines crossed a major oceanographic boundary between the Gulf Stream and the slope waters. Capitalizing on this opportunity, the research vessel R/V Endeavor was used to collect an oceanographic dataset coincident with a part of the UNCLOS MCS survey. Approximately 350 km of high spatial density data (500-1500 m) was collected using shipboard XBTs and CTDs. The combined MCS and oceanographic data provide the basis for the Reflection Ocean Seismic Experiment – ROSE. This composite data set will enable quantitative analysis of the gathered water column information to produce corresponding synthetic and field reflection sections and to study the spatial resolution limits of seismic oceanography. It will also provide ground-truth for the MCS structures and improve understanding of the linkages between the physical structures and the seismic reflections.

Cheers,  
Blair

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