

## 2010 Ocean Sciences Meeting, Portland, Oregon

Session: GEOTRACES in the International Polar Year (Trace Elements and Isotopes in the polar oceans in the context of IPY-GEOTRACES and related studies)

### Session description:

Trace elements, such as iron, play a pivotal role in controlling ocean productivity and therefore global climate. Moreover several trace elements and isotopes serve as key tracers for unraveling processes and turnover rates in the oceans. The international GEOTRACES program pursues the characterization of marine biogeochemical cycles of Trace Elements and Isotopes (TEIs; stable or radioactive; natural or anthropogenic). In context of the International Polar Years (IPY 2007-2009 the GEOTRACES program had its flying start with four Arctic and six Antarctic expeditions in order to study TEIs abundances processes and fluxes in the polar oceans. The multi-tracer approaches and inter-calibration exercises carried out during IPY-GEOTRACES have produced novel relationships among TEIs and other tracers and improved methods for sampling and analyses. We seek topics on TEIs as controlling elements as well as tracers of biogeochemical processes in the polar oceans in the context of IP Y-GEOTRACES and other relevant projects.