



**CANADIAN OCEAN SCIENCE NEWSLETTER
LE BULLETIN CANADIEN DES SCIENCES DE L'OcéAN**

**SPECIAL BULLETIN 2011-1
The CNC-SCOR Speaking Tours for 2011**

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CNC-SCOR annually sponsors two speakers on a tour of oceanographic centres. One speaker is drawn from Eastern Canada to talk to Western centres, and the second goes from the West to the East. The schedule for the 2011 talks is given below. Please try to attend the one nearest you.

The 2011 Eastern Tour

Dr. Paul Myers will talk at *Eastern* Centres between October 21 and October 28.

Title: *Freshwater Processes and Transport in the Arctic and Sub-Polar North Atlantic*

Abstract: Enhanced transport of low salinity water from the Arctic, as well as the Greenland ice cap, is expected to have impacts on the stratification, water formation and circulation in the North Atlantic Ocean. In this presentation, pathways of freshwater in the Arctic Ocean, the Canadian Arctic Archipelago, Baffin Bay and the subpolar North Atlantic Ocean will be examined. Both observational data and numerical modelling will be used. Observational analyses will focus on the West Greenland Current and Baffin Bay, as well as observations of oceanic changes near the glaciers of Greenland. The

modelling analysis will be based on regional configurations using the NEMO model of the Arctic Ocean, Canadian Arctic Archipelago and the subpolar North Atlantic. Lagrangian float tools such as Ariane will be used to examine the pathways for freshwater into the sub-polar North Atlantic in high resolution simulations.

Schedule:

City	Date	Location
Ottawa	Tentatively Oct 21	Venue TBA, watch for local announcement
Rimouski	Oct 25, 10h30	UQAR, ISMER
Québec	Oct 25, 16h00	Laval, Pavillion Alexandre Vachon, Biol 3068
Montréal	Oct 26, 11h00	UQAM PK-7605
St. John's	Oct 27, time TBA	MUN, location TBA
Halifax- BIO	Oct 28, 10h00	BIO, Needler Brdrm, VS 427
Halifax- Dal	Oct 28, 15h00	Dalhousie, Life Sciences 5263 (Psych. Wing)

Paul Myers completed a B.Math at Waterloo in 1990, an M.Sc. at McGill in 1992 and a Ph.D. from the University of Victoria in 1996. Both graduate degrees were under the supervision of Andrew Weaver, with the Ph.D. research looking at the use of unstructured grid techniques for ocean modelling, as well as topographic interactions and JEBAR. This was followed by a postdoc at the University of Edinburgh in Scotland under Keith Haines, looking at the circulation of the Mediterranean, both at present, and during paleoclimatic times (such as during the deposition of sapropel S1). Paul then returned to Canada to take up a faculty position at Memorial University in 1999, before moving to the University of Alberta in 2001, where he is presently an Associate Professor in the Department of Earth and Atmospheric Sciences. Paul has been active in CMOS, both locally in the Alberta Chapter (which he has chaired), in congress organization, as well as nationally. Paul was the president of CMOS in 2007-2008.

The 2011 Western Tour

The *Western Tour* will start in the week of November 7th. The speaker is Prof. Charles Gobeil.

Title: *Biogeochemical Coupling of Elemental Cycles in the Arctic Ocean as Reflected by Sediment Records*

Abstract: Forty one sediment box-cores have been collected within the Arctic Ocean spanning shelf, slope and basin locations between the early 1990's and 2008. Over the years, these cores have been extensively analyzed for major and trace elements, inorganic reduced sulfur, stable isotopes, radionuclides and organic biomarkers. The intent of this talk is not to provide a broad description of all the results. Rather, it is i) to highlight the coherence that occurs between the large-scale distributions of key redox-sensitive elements like Mn, Fe, Mo and Cd, and those of organic C and reduced S in Arctic Ocean sediments, ii) to clarify the geochemical mechanisms behind the observed coherences, and iii) to propose a budget of the sources and sinks for these elements in the Arctic Ocean. The latter exercise provides the foundation to suggest new ideas on the importance of stability in sediments, as determined by redox conditions, for controlling the net exchanges of redox-sensitive elements between shelves and

basins, and the role of sea-level fluctuations as a source of biogeochemical change in large-scale functioning of the Arctic Ocean.

Schedule:

City	Date	Location
Winnipeg	Nov 7, 13:30	location TBA
Edmonton	Nov 8, time TBA	UAlberta, location TBA, watch for local announcement
Sidney	Nov 9, 10:15	IOS, Main Auditorium
Vancouver	Nov 10, 16:00	UBC, EOS-Main 330A
Victoria	Nov 15, 15:30	UVic, Sci A104

Charles Gobeil obtained a Ph.D. in chemical oceanography from the Université du Québec at Rimouski in 1993. He was a research scientist at the Department of Fisheries and Oceans (Maurice Lamontagne Institute) for several years and then joined the Centre Eau Terre Environnement of INRS (Université du Québec) as a professor in 2003. His main research interests are related to the influence of processes and reactions at the sediment-water interface on marine geochemical cycles. He has also actively contributed during his career to research on the quality of the coastal marine environment of Canada's three oceans and, over recent years, on the atmospheric transport of trace elements and the ubiquitous presence of contaminants in remote Canadian Shield lakes. Dr. Gobeil has published more than fifty peer reviewed papers in his field of expertise.

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Previous newsletters may be found on the CNC/SCOR web site.
Les bulletins antérieurs se retrouvent sur le site web du CNC/SCOR.

Newsletter #60 will be distributed on Oct. 29, 2011. Please send contributions to Bob Wilson, wilson@telus.net
Bulletin #50 sera distribué le 29 octobre 2011. Veuillez faire parvenir vos contributions à Bob Wilson, wilson@telus.net

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