

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

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[Three Candidates for the Centre for Earth Observation Science \(CEOS\)](#)

The Centre for Earth Observation Science (CEOS), Faculty of Environment Earth and Resources, University of Manitoba is seeking qualified candidates for several positions focusing on research into oceanic and atmospheric forcing of sea ice in the northern hemisphere. These positions will work collaboratively within a Network of Centres of Excellence known as ArcticNet (www.arcticnet.ulaval.ca), a new Canada Foundation for Climate and Atmospheric Sciences (CFCAS) funded network known as Storms in the Arctic (STAR) and as part of Canada's contribution to the International Polar Year (IPY). We seek at least 3 candidates to fill the following positions:

1) A graduate studentship (PhD) to work on oceanic and atmospheric forcing of sea ice growth and decay at the hemispheric scale. This project will examine how physical forcing in the atmosphere and ocean affect the annual cycle of sea ice in the northern hemisphere with a particular emphasis on the role of cyclones in these processes.

2) A graduate studentship (PhD) to work on atmospheric forcing of sea ice dynamic processes at the local scale using in situ data from ocean buoys and ship based observations from our icebreaker (<http://www.amundsen.quebec-ocean.ulaval.ca/>). This project will use a series of meteorological buoys to investigate the impact of surface momentum stress in the marginal ice zone and how the concentration of sea ice preconditions the surface albedo and wave field in the MIZ.

3) A graduate studentship (PhD) to work on atmospheric forcing of sea ice thermodynamic processes on melt initiation, the processes governing the timing and magnitude of the freshwater flux to the ocean, and the role this freshwater has on radiative exchange and biological productivity within the ocean surface mixed layer.

Candidates should send a CV and letter of intent via email to Prof. David Barber (dbarber@cc.umanitoba.ca); further information is available at www.umanitoba.ca/environment/ceos

Atlantic Zone Monitoring Program / Programme de Monitoring de la Zone Atlantique

The last issue of the **AZMP Bulletin** is now available simply by clicking on the following link / Le dernier numéro du **Bulletin du PMZA** est maintenant disponible simplement en cliquant sur le lien suivant :



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Edited by / Édité par
Jean-Claude Therriault¹, Brian Petrie² & Laure Devine¹
¹Institut Maurice-Lamontagne
850, route de la Mer, Mont-Joli, QC, G5H 3Z4
²Bedford Institute of Oceanography
Box 1006, Dartmouth, NS, B2Y 4A2

therriaultjcsci@dfo-mpo.gc.ca



Le Bulletin annuel du PMZA publie des articles en anglais, français ou bilingues afin de fournir aux océanographes et aux chercheurs des pêches, aux gestionnaires de l’habitat et de l’environnement, ainsi qu’au public en général les plus récentes informations concernant le Programme de Monitorage de la Zone Atlantique (PMZA). Le bulletin présente une revue annuelle des conditions océanographiques générales pour la région nord-ouest de l’Atlantique, incluant le golfe du Saint-Laurent, ainsi que de l’information reliée au PMZA concernant des événements particuliers, des études ou des activités qui ont eu lieu au cours de l’année précédente.



The AZMP annual Bulletin publishes English, French, and bilingual articles to provide oceanographers and fisheries scientists, habitat and environment managers, and the general public with the latest information concerning the Atlantic Zone Monitoring Program (AZMP). The Bulletin presents an annual review of the general oceanographic conditions in the Northwest Atlantic region, including the Gulf of St. Lawrence, as well as AZMP-related information concerning particular events, studies, or activities that took place during the previous year.



CNC/SCOR Tour Speakers: (i) Fall of 2006, and (ii) Spring of 2007

In 2005 CNC/SCOR established a new lecture tour project, for lecturers from one coast of Canada to visit the other coast of Canada, and vice-versa. The objective of the lecture tour is to promote ocean science in Canada, by Canadians. Lecturers:

- must be employed at a Canadian institution; e.g. not looking for opportunities for offshore lecturers.
- should be topical, articulate and able to present ideas clearly to a wide audience.
- should have their scientific contributions documented in the peer reviewed literature.

The CNC/SCOR sponsored lecture tour is intended complement existing efforts, such as those of the CMOS national lecture tour program, to provide a service to the ocean science community to promote Canadian oceanographers to tour sister agencies across Canada on a regular basis. Lectures will be in locations where “oceanographers tend to gather”.

For the Western segment of the inaugural tour in 2005, **Dr. Marlon Lewis** (Dalhousie University) visited British Columbia and Alberta and **Dr. Philippe Tortell** (University of British Columbia) undertook the east coast lecture. CNC/SCOR funded the required flights and in most instances the local hosts covered local travel, food and accommodation costs.

Planning for lecture tours in 2006 and 2007 is well underway. A small *ad hoc* group (Susan Allen, Paul Myers, Jinyu Sheng, Bjorn Sundby, Gordon McBean), in consultation with other interested ocean scientists, compiled a short list of prospective speakers, and then approached them to gauge their interest in undertaking the upcoming lecture tours. It is with pleasure that we are able to confirm the acceptance of four (4) speakers for 2006/2007, two traveling east and 2 traveling west.

Dr. Kevin Lamb, Professor, Department of Applied Mathematics, University of Waterloo <http://www.moisie.math.uwaterloo.ca/~kglamb/kglamb.html> **will undertake the Western tour in the Fall of 2006**, likely in October/November. Kevin's area of research is on nonlinear internal waves in the ocean and lakes. His other research interests include hydrodynamic instabilities, computational fluid dynamics, and a variety of stratified flow phenomena. **Dr. Erica Head**, Research Scientist, Biological Oceanography, Bedford Institute of Oceanography **will undertake a Western tour in early 2007**, likely in February/March. Erica's research interests are on the distribution and life cycles of *Calanus finmarchicus* in the North Atlantic. This zooplankton is a principal forage species in the sub-polar gyre of the North Atlantic. Both Kevin and Erica's tours are being organized by Susan Allen (on sabbatical for Fall 2006), sallen@eos.ubc.ca and Paul Myers, pmyers@ualberta.ca. Interested groups should contact either of these individuals to ensure scheduling opportunities are optimized for either or both speakers.

Dr. Andy Bush, Professor, Earth and Atmospheric Sciences, University of Alberta <http://mercury.eas.ualberta.ca/bush/homepage/index.html> **will undertake an Eastern tour in the Fall of 2006**, likely in November. Andy's research interests are the use of climate modelling to investigate the impact of orbital parameters on the coupled system, the maintenance of the equatorial thermocline, and the roles that such phenomena such as El Nino have played in the paleoclimates of Earth's history. **Dr. Rob MacDonald**, Research Scientist, Ocean Sciences Division, Institute of Ocean Sciences http://www-sci.pac.dfo-mpo.gc.ca/osap/people/macdonald/macdonald_e.htm **will undertake an Eastern tour in early 2007**, likely in February. Rob's research interests are in interdisciplinary programs to study the environmental pathways of contaminants including their delivery, transport, and elimination from aquatic systems in Arctic shelves and basins, British Columbia fjords, the Strait of Georgia, and lakes in the Fraser River basin. Both Andy and Rob's tours are being organized by Jinyu Sheng, Jinyu.Sheng@Dal.Ca. Interested groups should contact him to ensure scheduling opportunities are optimized for either or both speakers.

[CNC/SCOR Annual General Meeting \(AGM\)](#)

The CNC/SCOR Annual General Meeting will take place on May 30, 2006 in Toronto immediately prior to the CMOS Congress. We are seeking feedback from readers as to what

programs should be maintained/enhanced, which programs could be dropped and suggestions for any new issues that might be addressed. Some topics that will be addressed at the AGM include:

- Web site (see www.cncscor.ca)
- Canadian Ocean Sciences Newsletter (this is the 22nd issue of the Newsletter; previous issues may be found at www.cncscor.ca)
- Canadian Ocean Science Theses (see article in the 17th Newsletter issue)
- CNC/SCOR Lecture Tour (see article in the 22nd Newsletter issue)
- Oceanographic Photos (see article in the 19th Newsletter issue)
- Scholarship Supplement (see article in the 21st Newsletter issue)
- Membership (see item C2 at www.cncscor.ca)
- International Programs (see article in the 18th Newsletter issue)

Any comments on what we are doing right, what we are doing wrong and what we could be doing would be most appreciated; please forward any suggestions to dick.stoddart@sympatico.ca

NSERC Grants

There have been changes to the Natural Sciences and Engineering Research Council (NSERC) Strategic Project and Research Network Grants. In response to concerns raised by the ocean science community, CNC/SCOR has sought clarification from NSERC on the eligibility of marine research for these grant types.

NSERC Strategic Network Grants

The Research Network Grants are now part of the Strategic program and, as such, have been renamed Strategic Network Grants (SNG). Applications to these grants must now conform to the new target areas for the Strategic Program. A description of the new target areas, as they apply to Network Grants, can be found at the following URL:

http://www.nserc.ca/professors_e.asp?nav=profnave&lbi=SNG_target_areas#4

The text of the new Target Area 4, Healthy Environment and Ecosystems, has generated some concern among members of the ocean science community. Specifically the wording, “*The increasing pressure on our environment caused by human use and the impacts of climate change continues to drive the need to find better ways to protect and conserve Canada’s natural resources and biodiversity. Natural resources include ground and surface water, soil, air, forests and other vegetative ground cover, and biodiversity in plants and animal life...*” appears to leave no room for applications addressing these issues in marine environments.

Please note that NSERC has confirmed that, for SNG applications, this text is being interpreted broadly enough to include ocean-related research and, therefore, applications for marine environments are eligible if the objective is focused on conservation and protection. Preliminary applications are due June 30, 2006. It is strongly recommended that the NSERC Research

Partnerships Program be contacted to discuss any potential preliminary application well in advance of the deadline.

NSERC Strategic Project Grants

The new target areas are much more focused for the Strategic Project Grants (SPG). See the following URL for a complete description:

http://www.nserc.ca/professors_e.asp?nav=profnav&lbi=target_areas#4

Although the due date for this year's competition (April 18, 2006) has past, it is worth noting that NSERC has agreed to include ocean-related research in the Healthy Environment and Ecosystems target area under the following research topics:

- a) Biosphere Adaptation to Climate Change (*Adaptation Strategies*),
- b) Management and Modeling of Ecosystems (*Modeling of Ecosystems*), and
- c) Water Resources (*Supply, Protection and Management*).

In addition, ocean-related research would also be considered under the “Exceptional Opportunity” category (for which 20% of the funding has been set aside) as long as the environmental challenges identified in the target areas are addressed.

NSERC will be reviewing the results of this year's Strategic Project Grant competition in the Fall and has indicated that feedback is welcomed from interested members of the ocean science community.

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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 #23 will be distributed on June 21, 2006. Please send contributions to dick.stoddart@sympatico.ca
Bulletin #23 sera distribué le 21 juin 2006. Veuillez faire parvenir vos contributions à dick.stoddart@sympatico.ca

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