

## CANADIAN OCEAN SCIENCE NEWSLETTER

## LE BULLETIN CANADIEN DES SCIENCES DE L'OCÉAN

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## OCEAN SCIENCE PROGRAMS

### Report on the IAHS-IAPSO-IASPEI Scientific Assembly



Three of IUGG's constituent Associations, IAHS, IAPSO and IASPEI, met for a Joint Scientific Assembly in Gothenburg, Sweden, from 22 to 26 July 2013. The theme of the Assembly, "Knowledge for the Future", was chosen in order to highlight the importance of improved knowledge in hydrology, oceanography and seismology in addressing the challenges posed by climate change and the risks of natural extreme events. The Assembly attracted 1087 participants from 66 countries with 24 participants from Canada. The two national IAPSO correspondents for Canada, Blair Greenan and Jody Klymak, attended the IAPSO Business Meeting on July 23<sup>rd</sup>.

Kathryn Kelly (USA), the plenary lecturer for IAPSO, focused on meridional heat transport in the Atlantic Ocean, a key component of the global climate system. She combined different data sources to review the heat budget and anomalies in the heat transport, indicating a southern source for the anomalies.

Each Association offered a broad program of lectures and posters, with up to 11 parallel sessions at any one time. The lecture program was organized into 48 Association symposia, together with nine joint symposia focusing on areas such as land-ocean interactions, advanced applied statistics, and tsunamis. This program was complemented by two afternoon poster sessions. A highlight of the IAPSO program was the presentation of the 2013 Albert I Gold Medal, commemorating the Prince of Monaco, Vice President of IUGG (1919-1922). The medal was presented to Albert Gordon (USA), who then delivered the Albert I Memorial Lecture describing his research on the Indonesian Throughflow, the link between the Pacific and Indian Oceans.

More information on the assembly can be found at: <http://iahs-iapso-iaspei2013.com/>.

## CNC-SCOR

### Members/ Membres

*Céline Guégen (Trent)*  
*Markus Kienast (Dalhousie)*  
*Rob Macdonald – Past Chair (DFO-IOS)*  
*Michel Mitchell – Secretary*  
*Alfonso Mucci (McGill)*  
*Paul Myers (Chair, U Alberta)*  
*Ian Perry (DFO-PBS)*  
*Paul Snelgrove (Memorial)*  
*Bjorn Sundby (McGill)*  
*Martin Taillefer (Maritime Way)*  
*Len Zedel (Memorial)*

### Members Ex-Officio/ Membres d'office

*Blair Greenan (IAPSO)*  
*Helen Joseph (DFO-HQ)*  
*Peter Bartello (CMOS)*  
*Ian Rutherford (CMOS)*  
*Michael Scarratt (SOLAS)*

The Canadian National Committee of the Scientific Committee for Oceanic Research (CNC-SCOR) fosters and facilitates international cooperation. It is a non-governmental body that reflects the multi-disciplinary nature of ocean science and marine technology.

Le Comité national canadien du Comité scientifique de la recherche océanographique (SCOR) favorise et facilite la coopération internationale. Il reflète la nature multidisciplinaire de la science océanique et de la technologie marine.

## MEETINGS

### ArcticNet Science Meeting, 9-13 December 2013, Halifax, NS

As already announced, the 9th ArcticNet Annual Scientific Meeting ([ASM2013](#)) will be held from 9 to 13 December 2013 in Halifax, Nova Scotia.

The deadline for abstract submission is **Monday, 30 September 2013**.

Abstracts will be accepted for both oral and poster presentations. Presentations will be selected to cover diverse fields of Arctic research. Abstracts for both oral and poster presentations will be published. [Click here](#) for guidelines and to submit and abstract.

### Réunion scientifique annuelle d'ArcticNet, 9-13 décembre 2013, Halifax, N-É

Tel que déjà indiqué, la neuvième réunion scientifique annuelle d'ArcticNet ([ASM2013](#)) se tiendra du 9 au 13 décembre 2013 à Halifax, Nouvelle-Écosse.

La date limite pour la soumission de résumés est **lundi le 30 septembre 2013**.

Les résumés seront acceptés pour les présentations orales et d'affiches. Les présentations seront choisies de façon à offrir une sélection des divers champs de recherche arctique. Les résumés des présentations orales et des affiches seront publiés. [Cliquez ici](#) pour les directives sur les présentations et pour soumettre un résumé.

### 2014 Ocean Sciences Meeting, 23-28 February 2014, Honolulu

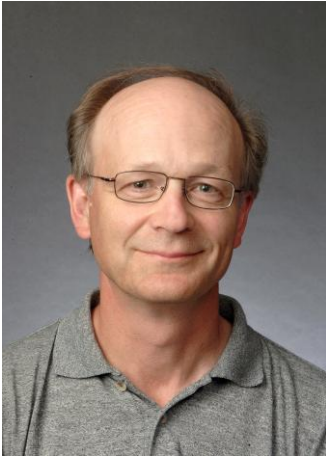
The 17<sup>th</sup> biennial Ocean Sciences Meeting, co-sponsored by the [Association for the Sciences of Limnology and Oceanography](#) (ASLO), [The Oceanography Society](#) (TOS), and the [American Geophysical Union](#) (AGU), will be held at the Hawaii Convention Center in Honolulu from 23-28 February 2014. The Ocean Sciences Meeting (OSM) is an important venue for scientific exchange across broad marine science disciplines. Sessions will include all aspects of oceanography, especially multidisciplinary topics, as well as presentations that reflect new and emerging research on the global ocean and society, including science education, outreach and public policy.

[Click here to go to the meeting website](#). The list of sessions is accessible [here \(click\)](#).

The deadline for abstract submission is **4 October 2013**. To submit an abstract, follow the instructions available [here \(click\)](#).

## PERSONNEL

### Kenneth Frank



On 6 September 2013, the Royal Society of Canada announced its list of newly elected fellows. The newly elected fellows have been elected by their peers in recognition of outstanding scholarly, scientific and artistic achievement. Election to the academies of the Royal Society of Canada is the highest honour a scholar can achieve in the Arts, Humanities and Sciences. The complete list of new fellows is available [here \(click\)](#).

Dr. Kenneth Frank from the Bedford Institute of Oceanography (Department of Fisheries and Oceans) was elected to the Fellowship of the Royal Society of Canada as a Fellow in the Earth, Ocean and Atmospheric Sciences Division of the Academy of Science.

Ken Frank's research into the dynamics of marine fish populations and the ecosystems they inhabit has yielded important and revolutionary insights into their ecology and functioning. Consistently anchored within the framework of ecological theory his research has broad application in the ecological sciences, has stimulated re-examination of long held concepts, and has advanced the management of large marine ecosystems and the communities/species that inhabit them.

The Induction and Awards Ceremony will occur 16 November 2013 at the Fairmont Banff Springs in Banff, Alberta, and is open to the public. This ceremony officially welcomes new Fellows into the Society. Further details on the ceremony and the Annual General Meeting of the RSC are available on the [ceremony web site \(click\)](#).

More information on the RSC Fellows is available at <http://rsc-src.ca/en/fellows>.

## In Memoriam

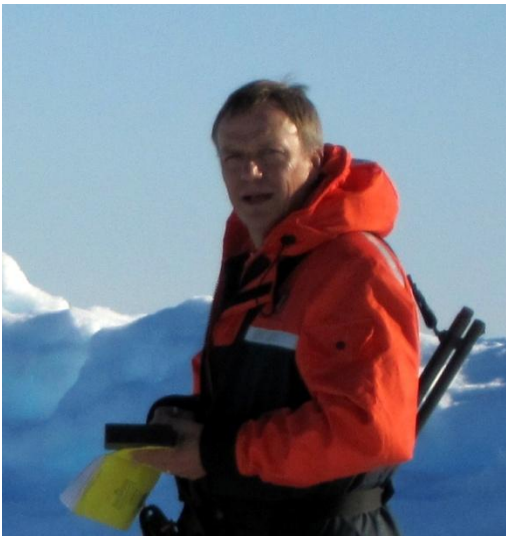
### John Henri Vandermeulen (1933-2013)



John Vandermeulen died on 20 July 2013 in Truro, NS after a lengthy illness. Born in The Netherlands, he immigrated to Canada with his family in 1948. He earned B.Sc., B.Ed. and M. Sc. Degrees from the University of Alberta and later a Ph.D. in marine biology at UCLA. Following a postdoctoral fellowship at Duke University, he returned to Canada to take up a research scientist position at the Marine Ecology Laboratory at the Bedford Institute of Oceanography in Dartmouth, NS where he remained for the rest of his scientific career. He became an international expert on the impacts of oil spills on marine ecosystems, beginning with work on the 1970 *Arrow* oil spill in Chedabucto Bay, NS followed by work on other major oil spills around the world. Over his

lengthy career, he published a wide variety of scientific papers and reports and organized numerous international symposia and workshops. Other major scientific contributions included leading the founding of the A.G. Huntsman Award (given annually to an outstanding scientist in international oceanography) and serving as an adjunct professor at Dalhousie University. A person with insatiable curiosity and diverse interests, John was also an avid orchid grower, a talented enamellist and visual artist, and a member of the Royal Astronomical Society. He is survived by his wife Gail, four children, nine grandchildren and a wide network of friends and colleagues.

## **Klaus Hochheim**



Dr. Klaus Hochheim, a respected climatologist and research associate with the Centre for Earth Observation Science (CEOS) at the University of Manitoba, has died tragically in a helicopter accident in the Canadian Arctic. He was 55 years of age.

Dr. Hochheim was aboard a Coast Guard helicopter over the Northwest Passage when it crashed on Monday 9 September. Two Coast Guard officers were also killed in the accident.

Dr. Klaus was an ardent researcher dedicated to the understanding of the nature of climate change and its effects on sea ice. He worked at the University of Manitoba Centre for Earth Observation Science in the Clayton H. Riddell Faculty of Environment, Earth, and Resources (CEOS) for over 12 years, and has collaborated with researcher at CEOS for more than 25 years. He was a veteran of high

Arctic field campaigns and an outstanding research scientist.

Hochheim received his BA (hons) from the University of Winnipeg, followed by his MA/95 and PhD/03 from the University of Manitoba. He studied sea ice climatology and microwave and optical remote sensing in extreme conditions, having been part of projects and expeditions in both the Arctic and Antarctic. He worked extensively with ArcticNet, a Network of Centres of Excellence of Canada that brings together scientists and managers in the natural, human health and social sciences with their partners from Inuit organizations, northern communities, federal and provincial agencies and the private sector.

Hochheim leaves behind a wife and three children.

## **CANADIAN JOBS**

### **Research Associate at Dalhousie University**

MEOPAR funding is available for a research associate to work under the supervision of Dr. Keith Thompson, to develop the data assimilation capabilities of MEOPAR's relocatable model. The successful applicant will have a

PhD in Physical Oceanography, Atmospheric Science or related discipline, and a strong publication record. Experience in running state-of-the-art data assimilative models of the ocean or atmosphere is required.

For more information, [click \(here\)](#).

### **Chief Scientist, Canadian High Arctic Research Station (CHARS)**

Aboriginal Affairs and Northern Development Canada is staffing the position of Chief Scientist for the CHARS in Cambridge Bay. For the first few years of the development of the CHARS Science & Technology program, and until CHARS is fully operational, the Chief Scientist can expect frequent travel to the National Capital Region and Cambridge Bay. Once CHARS is permanently established in Cambridge Bay, it is expected that the Chief Scientist would be positioned there year-round.

Note the deadline for applications is **20 September 2013**.

[Click here](#) for the full details of this staffing process.

### **Scientifique en chef, Station de recherche du Canada dans l'Extrême-Arctique (SRCEA)**

Affaires autochtones et Développement du Nord Canada dote couramment le poste de scientifique en chef de la SRCEA. Pendant les premières années de l'élaboration du programme de sciences et technologies de la SRCEA, titulaire de ce poste peut s'attendre à effectuer des déplacements fréquents dans la région de la capitale nationale et Cambridge Bay. Une fois que la station sera établie de façon permanente à Cambridge Bay, le ou la scientifique en chef devrait être en poste là toute l'année.

La date limite pour soumettre votre application est le **20 septembre 2013**.

Les détails de ce processus de dotation sont disponibles [ici \(clicker\)](#).

### **Post-doctoral position at the Institute of Ocean Sciences**

The Institute of Ocean Sciences (Fisheries and Oceans Canada) in Sidney BC is searching for a postdoc in coastal ocean modelling. The work will focus on the implementation of the Finite Volume Coastal Ocean Model (FVCOM) to the north coast of British Columbia from the shelf break to the heads of the fjords. Applications will include navigation and emergency response preparedness.

Details on the Visiting Fellows program and the application paperwork can be found [here \(click\)](#).

For further information please contact Dr. Charles Hannah at [Charles.Hannah@dfo-mpo.gc.ca](mailto:Charles.Hannah@dfo-mpo.gc.ca).

## Positions for Postdoctoral Fellows - Memorial University

Memorial University of Newfoundland in partnership with MEOPAR and IOSS is seeking several highly motivated postdoctoral fellows to work on projects in the fields of ocean science and technology.

Applicants could have different educational backgrounds but should have a PhD in ocean science, engineering, or some related relevant technological discipline. Each position will be a 1-year contract with the potential for renewal or extension.

Get more details [here \(pdf file\)](#). Interested applicants should contact either of the two principal investigators for more information: Dr. Brad deYoung ([bdeyoung@mun.ca](mailto:bdeyoung@mun.ca)) or Dr. Ralf Bachmayer ([bachmayer@mun.ca](mailto:bachmayer@mun.ca)).

## Training for Early Career Scientists

The Department of Oceanography and the COPAS Sur-Austral Program of University of Concepcion, Chile, announced the Austral Summer Institute XIV (ASI XIV) to be held in January 2014 at the Main Campus in Concepción and at the Experimental Laboratory of Marine Biology in Dichato. ASI XIV is devoted to Coastal and Open Ocean Studies through Multiple Approaches. Information on courses, lecturers, program and application process is available at [here \(click\)](#).

Application deadline is **31 October 2013**.

Note that training opportunities for young scientists are regularly posted on the "Ocean Summer School" portal [\(click here\)](#) sponsored by the Intergovernmental Oceanographic Commission ([IOC](#)).

*Looking for work? Try the CMOS site ([click](#))*

*Vous recherchez un emploi? Visitez le site SCMO ([click](#))*

## GENERAL

### *Atmosphere-Ocean* Special issue: Invitation to Submit a Paper

The guest editors of *Atmosphere-Ocean* are inviting researchers to submit a paper for a special issue in *Atmosphere-Ocean* entitled "Dynamics of the Gulf of St. Lawrence System and its Influence on the Ecosystem: Past, Present and Future". This special issue will focus on the latest advances in understanding of physical, chemical, biological and geological processes in the Gulf of St. Lawrence and adjacent waters (including the Scotian Shelf, Gulf of Maine, Labrador and Newfoundland Shelves, and Great Lakes) based on observational, numerical, and climate studies.

The submission deadline of the full manuscript is February 2014. If you are interested in publishing your paper in this special issue, please contact guest editors Jinyu Sheng ([Jinyu.Sheng@Dal.Ca](mailto:Jinyu.Sheng@Dal.Ca)) or Denis Lefavre ([denis.lefavre@dfo-mpo.gc.ca](mailto:denis.lefavre@dfo-mpo.gc.ca)) with a proposed title and abstract and an indication whether you can meet the suggested deadline.

## OTN Gliders

The [Ocean Tracking Network](#) (OTN) currently deploys two Teledyne Webb Research Slocum electric gliders (OTN200 and OTN201) near continuously along the 250-km Halifax Line, off Nova Scotia. Their mission is to provide oceanographic context for the animal tagging efforts of OTN. Ultimately, data from the gliders will provide foundations for models of ocean dynamics that will be related directly to the activities of tracked species.

Further information on the program as well as data from the gliders are available [here \(click\)](#).

## VENUS Buoy Profiling System Launched in Patricia Bay

After three years of planning, design and construction, the Buoy Profiling System (BPS) is now ready to be installed. On Aug 1, the Saanich Inlet-destined 7-m wide buoy structure was successfully launched in Patricia Bay. The next step is to secure the buoy in place 4 km south of the Node using a triple mooring, and the connection of the system to the VENUS Node in Saanich Inlet via a specialized power and communications cable. Once the buoy is relocated to the centre of Saanich Inlet it will routinely profile the seasonally anoxic waters in Saanich Inlet using standard and customized instrumentation.

[Click here](#) for more new on the Venus coastal network.

## \$1.5 Million Funds for the Halifax Marine Research Institute's First Smart Buoy Project

Federal and provincial funding of the Halifax Marine Research Institute's ([HMRI](#)) first smart buoy project was announced on 26 July 2013. HMRI will acquire, deploy and operate a 3-metre inshore weather buoy near Herring Cove, Nova Scotia, in partnership with the Canadian Marine Pilots' Association, Atlantic Pilotage Authority, Halifax Port Authority, Canadian Coast Guard, and the Marine Environment Observation Prediction and Response network ([MEOPAR](#)).

Following deployment in Autumn 2013, the buoy's sensors will generate real time measurements used to create high-resolution weather and wave forecasts for the mouth of Halifax Harbour. Aside from benefitting the Atlantic Pilotage Authority and Halifax Port Authority, the Data collected by the buoy's sensors will generate educational and scientific opportunities for ocean science and technology students and researchers in Nova Scotia and beyond.

[Click here](#) for more information on this announcement. Find out more about the [Halifax Marine Research Institute here \(click\)](#).



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

Newsletter #73 will be distributed on 15 November, 2013. Please send contributions to Michel Mitchell, [michel.mitchell@dfo-mpo.gc.ca](mailto:michel.mitchell@dfo-mpo.gc.ca)  
Le Bulletin #73 sera distribué le 15 novembre 2013. Veuillez faire parvenir vos contributions à [michel.mitchell@dfo-mpo.gc.ca](mailto:michel.mitchell@dfo-mpo.gc.ca)

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