

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

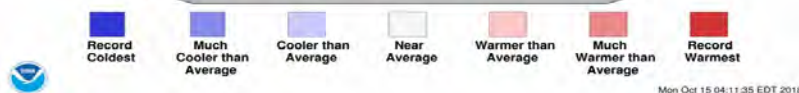
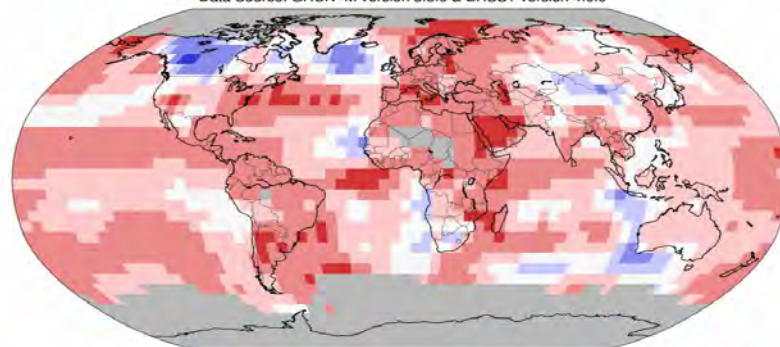
Newsletter Number 103, November 2018
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Land & Ocean Temperature Percentiles Sep 2018

NOAA's National Centers for Environmental Information
Data Source: GHCN-M version 3.3.0 & ERSST version 4.0.0



Jody Klymak CNC-SCOR West to East Tour Speaker

Each year CNC-SCOR selects someone from the West coast to give a lecture tour heading East, and someone from the East to give a lecture tour heading West. They give talks, over about 1 week at some combination of oceanographic institutes and schools. The CNC-SCOR west to east tour speaker is Jody Klymak from the University of Victoria. He will be speaking between December 10 and 17.



The schedule is:

December 10 St. John's Contact: Fraser.Davidson@dfo-mpo.gc.ca

December 11 Halifax Dalhousie Contact: DBarclay@Dal.Ca

December 12 Halifax Bedford Institute Contact: Zeliang.Wang@dfo-mpo.gc.ca

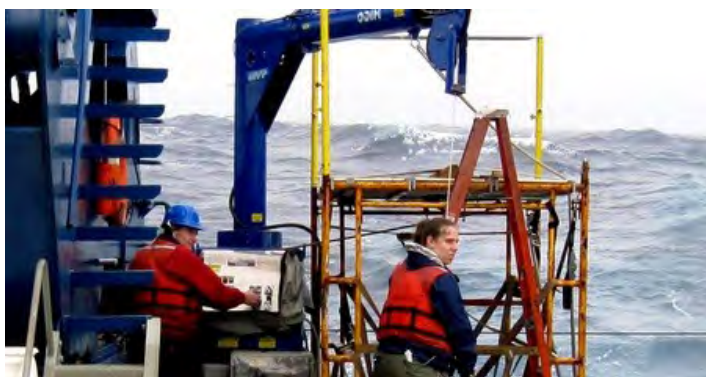
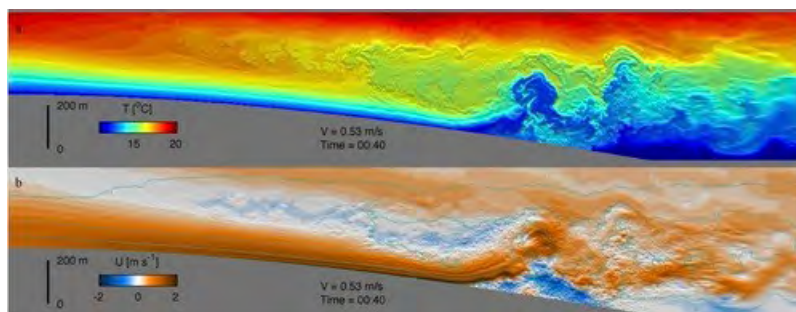
December 13 or 14 Rimouski Contact: Cedric_Chavanne@uqar.ca

December 17 Montreal Contact: david.straub@mcgill.ca

His topic:

Measuring sub-mesoscale lateral stirring

Oceanography is at an exciting time where numerical predictions and at-sea observations are approaching similar scales of resolution. This is an opportunity for better synergy between the two approaches, but also a challenge because traditional numerical parameterizations, developed for coarser models, need to be rethought as the resolution of the models becomes finer. A particular challenge is accounting properly for the processes that cause lateral mixing in the ocean, thought to be dominated by eddy stirring. The mixing acts on large-scale gradients on the scale of ocean basins, is driven by instability of the ocean currents, and finally cascades to turbulence at scales of centimeters, scales that will always be parameterized. This problem is important for predicting not just the heat and salt content of the ocean, but also biological tracers that are harder to include in data assimilation.



In this talk I outline efforts my group has participated in to observe both the processes that drive lateral mixing, and to quantify lateral turbulence using statistical approaches. Observationally, this is a difficult problem because the scales we measure are hard to cover quickly with a ship, and because the signatures of lateral stirring are often overwhelmed by internal wave signals. Our approach is to use in-situ ship observations using a fast-profiled CTD and the ship's ADCP, couple those observations with float and drifter data, and compare to numerical simulations to better understand the processes that drive lateral mixing, with an eye to parameterizing them in high-resolution models. I will also briefly discuss plans to augment these ship-based studies with glider observations on the west coast.

<http://web.uvic.ca/~jklymak>

Anna Metaxas CNC-SCOR East to West Tour Speaker

The CNC-SCOR east to west tour speaker is Anna Metaxas from Dalhousie University. At present, Anna is planning on speaking during the week of February 4-8. The tentative schedule for Anna's talks now looks like:

February 4 PBS, Nanaimo Contact: Michelle.Bigg@dfo-mpo.gc.ca

February 5 UBC Contact: sallen@eoas.ubc.ca

February 6 UAlberta, Edmonton Contact: pmyers@ualberta.ca

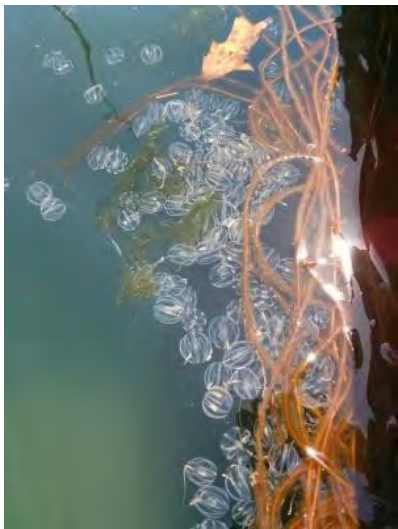
February 7 SFU, Burnaby Contact: lauriew@sfu.ca

February 8 Uvic, Victoria Contact: verenat@uvic.ca

The topic of Anna's talk will be: *Evidence-based conservation: ecological connectivity and the design of marine protected areas.*

About Anna:

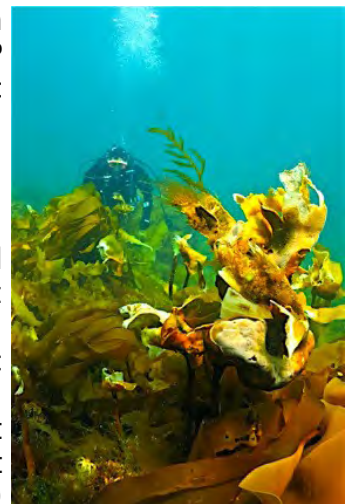
Dr. Anna Metaxas is a Professor in Oceanography at Dalhousie University. Her research focuses on the factors that regulate populations of benthic marine invertebrates, particularly early in their life history. She uses a combination of approaches, such as field sampling, laboratory experiments and mathematical modelling, to study organisms of ecological and economic importance, including invasive species. She has worked in a variety of habitats from shallow rocky subtidal regions to the deep-sea, including hydrothermal vents and deep-water corals, in temperate and tropical regions of the world. Her research has implications for marine conservation, such as the establishment and success of conservation areas for benthic populations. She is currently involved in a number



of national and international initiatives that have as an ultimate goal the translation of scientific outcomes into information that is relevant to policy. She has served on several national and international steering and scientific advisory committees and boards: the "Canadian Healthy Oceans Network" as a Theme Leader and member of the Scientific Advisory Committee, the technical advisory committee of the Endeavour Hot Vents Marine Protected Areas, the "Biogeography of Deep-Water Chemosynthetic Ecosystems (ChEss)" project of the Census of Marine Life, Ridge 2000, the Biological Studies and Vent Ecology committees of InterRidge, and the Excellence Cluster Future Ocean. She was a co-director of the research school in Transatlantic Ocean System Science and Technology from 2013 to 2014. She is currently the chair of the Population Connectivity working group of INDEEP (International network for scientific investigation of deep-sea ecosystems), as well

as of the InterRidge Working Group on "Ecological Connectivity and Resilience".

Dr. Metaxas received a B.Sc. in Biology from McGill University in 1986, a MSc in Oceanography from the University of British Columbia in 1989 and a PhD from Dalhousie University in 1994. She was a Postdoctoral Fellow at Harbor Branch Oceanographic Institution in Fort Pierce, Florida, from 1995 to 1997, and a Postdoctoral Scholar at Woods Hole Oceanographic Institution, Massachusetts, from 1997 to 1999. In 1999, she was offered a NSERC University Faculty Award and moved to Dalhousie as an Assistant Professor in Oceanography. She held an Adjunct Scientist appointment at the Biology Department Woods Hole Oceanographic Institution from 1999



to 2002, and was a visiting scientist at Friday Harbor Laboratories in 2005 and a visiting scholar at Whiteley Center in 2008 (both at University of Washington). She has spent time at the University of Western Australia in Perth, as a Gladden Senior Visiting Fellow in the School of Environmental Systems Engineering in 2006 and as a visiting researcher at Oceans Institute in 2010. In 2014, she received a University of Queensland award for international collaboration and was a visiting professor at the Centre of Excellence in Environmental Decisions there in 2014 and 2018.

<https://www.dal.ca/faculty/science/oceanography/people/faculty/anna-metaxas.html>

<https://annametaxas.wordpress.com/people/anna-metaxas/>

Ann Gargett Honoured by the Royal Society of Canada



On September 18, the [Royal Society of Canada](#) announced that 18 eminent Canadian scientists, [scholars and researchers have been recognized](#) for their outstanding achievements in advancing knowledge and understanding of the past and present. The RSC has chosen the [recipients of 11 Medals and 7 Awards](#). Ann Gargett, Institute of Ocean Sciences, was awarded the Willet G. Miller Medal in Ocean Sciences.

Ann Gargett is internationally recognized for her groundbreaking work on ocean turbulence, mixing and layering. Her contribution includes innovative observational approaches to measure turbulence, meticulous data analysis, the development of theory, and the elaboration of the importance of turbulence to biological processes in the ocean. Her pioneering studies, clarity in exposition and generous advice have especially inspired females to enter the exceptionally demanding discipline of physical oceanography.

<https://www.semesteratsea.org/faculty-and-staff/ann-gargett/>

<http://www.ccpo.odu.edu/Facstaff/faculty/gargett.html>

<http://mpowir.org/resources/career-profiles/ann-gargett/>

https://www.youtube.com/watch?v=O4UffLZ_-0s



RSC SRC

This section of your newsletter provides an opportunity to highlight your research programs to the Ocean Science Community.

*Your are invited to send contributions to
David Greenberg,
david.greenberg@dfo-mpo.gc.ca*

Mettez en valeur vos programmes de recherche en publiant un article dans cette première section de votre bulletin.

*Faites parvenir vos contributions à
David Greenberg,
david.greenberg@dfo-mpo.gc.ca*

MEETINGS

The 27th IUGG General Assembly (CMOS 2019)

July 8-18, 2019, Montréal

Beyond 100: The next century in Earth and Space Science



The 27th IUGG General Assembly will be held July 8-18, 2019 at the Palais des Congrès in Montréal, Québec, Canada. This is a special opportunity for participants from Canada and from around the world to come together and share their science and culture. 2019 marks the 100th anniversary of IUGG; we will look back on the accomplishments of the previous century of Earth and space science research, and forward to the next century of scientific advancement. Join us for a host of scientific activities, including special public lectures, keynote Union lectures and a wide variety of themed sessions.

The 2109 CMOS annual Congress is folded into this General Assembly. A [CMOS Banquet](#) is being held on Thursday, July 11, 2019 at 7:00 p.m. A reception and cash bar will be held on an outdoor terrace located on the 7th floor, (weather permitting).

You can now [register](#), - Early Bird ends April 5.

and

Submit an [abstract](#) - deadline February 18.

There is an extensive [resource page](#) for the Assembly and some details of the [program](#).



2019 International Ocean Colour Science Meeting

April 9-12 2019, Busan, South Korea

Fostering International Collaboration in Multi-Scale Ocean Colour Science and Applications

The fourth International Ocean Colour Science (IOCS) meeting will take place from 9 to 12 April 2019 in Busan, South Korea. The meeting is being convened by the International Ocean Colour Coordinating Group (IOCCG) in partnership with, and thanks to sponsorship from the Korea Institute of Ocean Science & Technology (KIOST), NASA, EUMETSAT and Airbus.

The primary focus of the IOCS meetings is to serve as a venue for the ocean colour community to communicate their views, ideas, concerns and issues with the satellite agencies. The programme for the IOCS-2019 meeting will include invited keynote lectures and agency talks as well as a special session dedicated to ocean colour remote sensing in Asian waters. Several breakout workshops will be included along with poster sessions and community Town Halls. The NASA Ocean Color Research Team (OCRT) meeting is scheduled to take place on 8 April, 2019, prior to the IOCS-2019 meeting. Other side meetings and training events will also be scheduled.



[Conference Website](#)

Deadlines:

Early registration - Dec 31 2018

Travel support - February 15 2019

Poster abstracts - March 1 2019

Species on the Move 2019

July 22 - 26 2019, Kruger National Park, South Africa

The global redistribution of our planets' species is widely recognised as a fingerprint of climate change, however, the mechanisms that underpin such range shifts are poorly understood. Additionally, the pervasiveness of range shifts, from poles to the equator, and depths of oceans to tops of mountains, provides us with unique opportunity to advance our theory of biogeography, evolutionary ecology and macroecology.

Our move into the 'anthropocene' allows unprecedented opportunity to understand the mechanisms that drive species distributions across ecosystems and address the fundamental tenet of ecology: what lives where and why? However, such dramatic changes also pose significant challenges for sustainable management of our natural resources.



The conference brings together scientists and natural resource managers working in the disciplines of global change, biogeography and evolution, and relevant in contexts of natural resource management, biodiversity management and conservation, and theoretical ecology.

The conference brings together scientists and natural resource managers working in the disciplines of global change, biogeography and evolution, and relevant in contexts of natural resource management, biodiversity management and conservation, and theoretical ecology.

[Details](#)

Deadlines:

Abstracts - October 30 2018

Early Bird Registration - April 15 2019

<p><i>Please send meeting announcements to David Greenberg, david.greenberg@dfo-mpo.gc.ca</i></p>	<p><i>SVP faites parvenir vos annonces de réunion à David Greenberg, david.greenberg@dfo-mpo.gc.ca</i></p>
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POSITIONS AVAILABLE

Assistant Professor, University of Toronto

Theoretical Computational Large-Scale Ocean Dynamics and Climate

The Department of Physics in the Faculty of Arts and Science at the University of Toronto, St.



UNIVERSITY OF
TORONTO

George Campus invites applications for a full-time tenure stream position in the area of Theoretical and Computational Large-Scale Ocean Dynamics and Climate. This appointment will be at the rank of Assistant Professor, and will commence on July 1, 2019.

Applicants must have completed a Ph.D. degree in Physics or a related field by the date of appointment or shortly thereafter, with a demonstrated record of excellence in both research and teaching. They seek candidates who study the global ocean circulation, and whose research and teaching interests complement and strengthen existing departmental strengths

<http://www.physics.utoronto.ca/>. In particular, they are seeking to develop expertise in fundamental ocean dynamics to complement our existing strength in understanding the atmosphere's role in regulating the carbon cycle and the climate.

[Details](#)

Closing Date: Jan 31, 2019 Open Until Filled

Staff Chemist/Geochemist, Woods Hole

The National Ocean Sciences Accelerator Mass Spectrometry facility (NOSAMS) seeks a full time Staff Chemist/Geochemist to become a member of the NOSAMS leadership team. NOSAMS provides radiocarbon measurements and expertise to the ocean and earth sciences community (<http://www.whoi.edu/nosams/home>). This is a regular, full-time, exempt position, and is eligible for benefits.

ESSENTIAL FUNCTIONS:

- Responsible for oversight of sample preparation activities (chemical preparation of carbon samples for AMS measurements) and strategic developments in sample processing procedures.
- Consults with clients and monitors data quality, in collaboration with other NOSAMS staff.
- Participating in long-range strategic planning and outreach for the facility.
- May pursue independent radiocarbon-related research as time and resources allow.

[Details](#)

Deadline: Review of applications will begin December 7, 2018 and will continue until the position is filled.

[Other Woods Hole Opportunities](#)

Associate Professor/Professor, Åbo Akademi University, Finland

Marine and Aquatic Research (Tenure Track)

Åbo Akademi University is opening a position as Associate Professor or Professor in Marine and Aquatic Research within the tenure-track career system, starting August 1st 2019 (or as agreed). The position will be placed in Åbo (Turku), Finland. The holder of the position shall conduct scientific research and research-based teaching. Applicants are expected to have solid skills in quantitative aspects and numerical /mathematical modeling of marine



biological, ecological, oceanographic (physicochemical) and/or biogeochemical properties. The main focus is on the Baltic Sea and its coastal and catchment areas. In addition, the appointee must participate in research-based education consistent with the education provided by the subject of environmental and marine biology.

[Details](#)

Deadline: November 30th 2018 at 3.00 pm Finnish time

Tsunami Geologist, Olympia, Washington State

Dept. of Natural Resources (Permanent, Full-time)

This position is the lead tsunami researcher in the Washington Geological Survey (WGS). This is a professional independent researcher performing geologic and computationally intensive research, requiring ingenuity and application of techniques where the project scope is broadly defined for tsunami hazard modeling for Washington. This position studies tsunami sources and is able to incorporate new scientific research into tsunami hazard models. The scientist will have a geologic background and will be able to validate model results with paleo-tsunami studies. This position will work closely with local and state emergency managers to develop tsunami evacuation products. This position uses knowledge and application of GIS, tsunami modeling software, programming, database management, project management, team leadership, and excellent communication. This position is responsible for managing scientific projects, including effective long-range planning, project scoping, determining research objectives and methods, and directing and leading other scientists in projects within the geologic hazards section.



[Details](#)

Deadline 16 December 2018 or later depending on the application pool.

PostDoc Position, Geesthacht, Germany

Ecosystem Modelling

The position is expected to investigate dominant dependencies of plankton food-webs and related biogeochemical cycling on multiple external drivers and how these dependencies are mediated by adaptive processes in plankton populations or communities. The envisaged research will make use of observed anomalies in physical and ecological states and will pinpoint key system dependencies of coastal plankton on stressors by means of numerical experiments. The PostDoc will run 3D simulations of the coastal oceans using a modular data and model system (MOSSCO/GCOAST) including a trait-based plankton model and a hydrodynamic model with an unstructured grid (SCHISM).



[Details](#)

Deadline 16 December 2018

Looking for work? Try the CMOS site (click).	Vous recherchez un emploi? Visitez le site SCMO (click).
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GENERAL

Call for 2019 SCOR Visiting Scholars

SCOR began a program in 2009 to enlist the services of ocean scientists from the SCOR community, from both developed and developing countries, to teach short courses and to provide more extended on-site education and mentorship at developing country institutions. This program is open to any Ph.D.-level scientist who has time available to spend teaching and mentoring in a developing country (see list [here](#)). The scholarships are not intended to conduct joint research, although such research may develop as an outcome of a visit.



Hosting visiting scientists can have many benefits to host institutions, such as inspiring, motivating, and informing students and faculty, and leading to future collaborations between the visiting scientist and the host institution.

The program is a **partnership**, with the host institution providing local accommodation and SCOR paying for airfares and other local expenses, as necessary. The participating scientists donate their time. They must be onsite for at least two weeks, but can also stay as long as visa requirements allow and hosts are willing to provide accommodations. Most successful applicants have identified a potential host institution.

[Details](#)

Deadline 14 December 2018.

OERA Open Call Program

The [Offshore Energy Research Association](#) (OERA) has an '[Open Call Program](#)' available two (2) times per year for potential research funding in the areas of marine renewable energy and petroleum geosciences. The primary objective of OERA's Open Call Program is to sponsor high quality scientific research that will advance Nova Scotia's offshore energy sector and contribute to building research capacity in-province. The Program has a fixed annual funding cap that supports two Open Call competitions each year. The Program focus is to capture modestly budgeted, shorter duration research projects that align with an OERA research priority areas.



The OERA is an independent, not-for-profit contract research organization that was established in 2006, capitalized by the Nova Scotia Department of Energy, to support offshore geoscience, environmental and marine renewable energy research and development. OERA's mission is to lead offshore environmental, renewable and petroleum & related energy research that enables the sustainable & responsible development of Nova Scotia offshore energy resources through strategic partnerships with academia, government and industry. Their purpose is to reduce the risks and uncertainty related to investments in Nova Scotia's offshore energy resources through the provision of scientific and applied research initiatives.

Deadline for this round of applications is **January 15, 2019.**

Two New SCOR Working groups

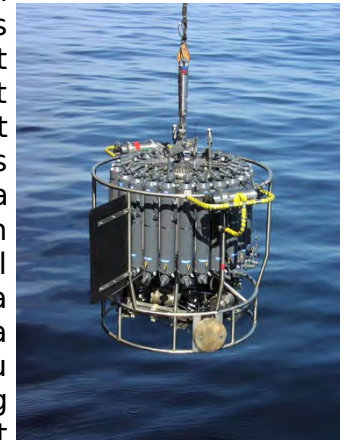
From [Score Newsletter #38](#)

Two new SCOR [Working Groups](#) were approved for start in 2019:

WG 156 on Active Chlorophyll fluorescence for autonomous measurements of global marine primary productivity

will compare active Chl a induction measurements across instruments and approaches, identifying key aspects of instrument configuration, deployment and parameter acquisition that may introduce variability in data obtained. This approach will make it possible to develop, implement and document internationally agreed best practices for data acquisition and processing, standardized output formats and archiving approaches. A new synthesis of parallel ^{14}C and active Chl a induction measurements will be used to examine the relationship between these two productivity metrics under a range of field conditions. A global database will be developed for hosting quality-controlled active Chl a induction measurements, creating standards for data and meta-data collection, submission, and archiving. This will help in the use of in situ active Chl a induction data to validate and refine relevant remote sensing measurements (e.g., sun-induced fluorescence yields). David Suggett (Australia) and Philippe Tortell (Canada) are co-chairing the group.

(see <https://scor-int.org/group/156/>).



WG 157: Toward a new global view of marine zooplankton biodiversity based on DNA metabarcoding and reference DNA sequence databases (MetaZooGene)

will facilitate global cooperation, ensure open access to data and direct comparison of results from different studies, encourage standardization of methods for applied uses in ocean assessment, and accelerate progress using novel DNA-based approaches to understand biodiversity and roles of zooplankton in ocean ecosystems. The group is chaired by Ann Bucklin (USA); Katja Peijnenburg (Netherlands) and Ksenia Kosobokova (Russia) are serving as vice-chairs.

(see <https://scor-int.org/group/157/>)



Help CMOS, Renew your membership online

Dear CMOS Member,

Every year at this time, we send you reminders to renew your membership. **Please help the Society save money on postage and renew online.** Outstanding invoices will be mailed out if required.

I trust you will continue to be part of the CMOS community. Take the time to renew online at <http://www.cmos.ca/>. When doing so please consider making a voluntary donation to one of the CMOS funds – your generosity will greatly enrich our CMOS activities. In addition, please continue to use our website as a useful resource of our events, publications, news and announcements.

Thank you for being a member of our Canadian Meteorological and Oceanographic Society. I hope to see you at our 2019 Congress in Montréal, QC. I speak on behalf of our Society to thank you and express my appreciation of your active participation in our community!

Sincerely yours,

Gordon Griffith, P.Eng., ing., FEC Executive Director

Chers membres de la SCMO,

Chaque année, à cette époque, nous vous invitons à renouveler votre adhésion. **S'il vous plaît, aidez la Société à économiser sur les frais des timbres et à renouveler en ligne.** Les factures en suspens seront expédiées si nécessaire.

J'espère que vous continuerez à faire partie de la communauté de la SCMO. Prenez le temps de renouveler votre adhésion en ligne à : <http://www.scmo.ca/>. Merci de considérer de faire un don à l'un des fonds de la SCMO — votre générosité enrichira considérablement les activités de la SCMO. De plus, merci de continuer à utiliser notre site Web en tant que ressource utile pour en savoir plus sur nos événements, publications, nouvelles et annonces.

Merci d'être membre de la Société canadienne de météorologie et d'océanographie. J'espère vous voir à notre congrès de 2019 à Montréal. Au nom de notre société, je vous remercie de votre participation active au sein de notre communauté !

Sincères salutations,

Gordon Griffith, ing., P.Eng., FEC, Directeur général



CMOS Looking for Nominations

Prizes and awards

February 15th is the deadline for nominations for the CMOS Prizes and Awards. It may seem far away, but it always seems to arrive faster than we thought.

Please take a moment to visit <http://www.cmos.ca/site/awards> for a list of the eight awards, for instructions on how to make a nomination and then submit something on behalf of one of your colleagues or students.

CMOS has a rich history recognizing deserving persons (members and non-members) through its awards programs. But regrettably, there are many deserving candidates who go unrewarded each year because we were too busy to work up a nomination. Don't wait - do it now!

Note that any inquiries and all nominations are to be forwarded to the CMOS Awards Coordinator (Denis Bourque) at awards-coord@cmos.ca .



Le 15 février est la date limite pour la soumissions des mises en candidature pour les prix et honneurs de la Société. Cela semble peut-être loin, mais il semble toujours que la date arrive soudainement.

Veuillez prendre quelques secondes pour visiter http://www.cmos.ca/site/awards?language=fr_FR& pour la liste des huit prix et pour lire les instructions, puis prendre le temps de soumettre la nomination d'un de vos collègues ou étudiants.

La SCMO a une histoire qui souligne les personnes méritantes (membres et non-membres) par ses programmes de reconnaissance. Malheureusement, il y a beaucoup de personnes qui méritent d'être nommées qui ne le sont pas, parce qu'on est trop occupé. N'attendez pas : faites-le maintenant!

À noter que toutes enquêtes ainsi que toutes nominations doivent être soumises au Coordinateur des honneurs de la SCMO (Denis Bourque) au coord-honneurs@scmo.ca .

Denis Bourque

CMOS Awards Co-ordinator/ Coordinateur des prix SCMO

CMOS Fellows and Honorary Fellows/Membres émérites et honoraires

March 15th is the deadline to recognize your colleagues by nominating one or more of them to be a CMOS Fellow or CMOS Honorary Fellow. It may seem far away, but it always arrives faster than we expected.

The titles “CMOS Fellow” and “Honorary CMOS Fellow” may be granted for exceptional long term service and support to the Society and/or outstanding contributions to the scientific, professional, educational, forecasting or broadcasting fields in atmospheric or ocean sciences in Canada.

Nominations can originate from non-members of the Society, as long as at least one Sponsor is a Member.

Please take a moment to visit <http://www.cmos.ca/site/fellows> for information about these designations and instructions on how to submit a nomination. Don't wait - do it now!

Any inquiries and all nominations are to be forwarded to the CMOS Awards Coordinator (Denis Bourque) at awards-coord@cmos.ca .

Le 15 mars est la date limite pour la soumission des mises en candidature pour le titre de Membre émérite et Membre honoraire de la SCMO. Cela semble peut-être longtemps, mais la date arrive plus vite que l'on si attend.



Les titres «Membre émérite» et «Membre honoraire» sont accordés pour des services et/ou soutien exceptionnels à la Société, ou pour des contributions scientifique, professionnelle, éducative, ou en prévision ou présentation, dans les sciences atmosphériques ou océaniques au Canada.

Les nominations peuvent être d'origine de non-membres de la Société si au moins un des commanditaires est Membre.

Veuillez prendre quelques secondes pour visiter http://www.cmos.ca/site/fellows?language=fr_FR& pour les instructions, afin de soumettre la nomination d'un de vos collègues. N'attendez pas : faites-le maintenant!

Toutes enquêtes ainsi que toutes nominations doivent être soumises au Coordinateur des honneurs de la SCMO (Denis Bourque) au coord-honneurs@scmo.ca .

Denis Bourque

Awards Coordinator CMOS / Coordinateur des honneurs SCMO

Canadian Ocean Science Newsletter Le Bulletin Canadien des Sciences de l'Océan

Previous newsletters may be found on the [CNC/SCOR](#) web site.

Newsletter #104 will be distributed in January 2018.

Please send contributions to David Greenberg
david.greenberg@dfo-mpo.gc.ca

If you wish to subscribe to this newsletter, please send an email to listserv@lists.mcgill.ca with the following message:

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SIGNOFF OCEAN-NEWSLETTER

Les [bulletins](#) antérieurs se retrouvent sur le site web du [CNC/SCOR](#).

Le Bulletin # 104 sera distribué en janvier 2018.

Veillez faire parvenir vos contributions à David Greenberg, david.greenberg@dfo-mpo.gc.ca

Si vous désirez vous abonner à bulletin, veuillez envoyer un courriel à listserv@lists.mcgill.ca avec le message suivant:

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SIGNOFF OCEAN-NEWSLETTER

CNC-SCOR

Members/ Membres

Paul Myers - Chair (U Alberta)
Rob Macdonald - Past Chair (DFO-IOS)
David Greenberg - Secretary (DFO-BIO)
Markus Kienast (Dalhousie)
Michael Scarratt (DFO-IML)
Paul Snelgrove (Memorial)
Stephanie Waterman (UBC)

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.

Members Ex-Officio/ Membres d'office

Jody Klymak (IAPSO)
Keith Lennon (DFO-HQ)
Paul Kushner (President CMOS)
Gordon Griffith (Executive Director CMOS)
Jean-Éric Tremblay (Québec-Océan)
David Beauchesne (Québec-Océan étudiants)
Laura Gillard (CMOS students)
Lisa Miller (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.



WWW.CNCSCOR.CA