

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

**Newsletter Number 126, September 2022**  
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# OCEAN SCIENCE NEWS

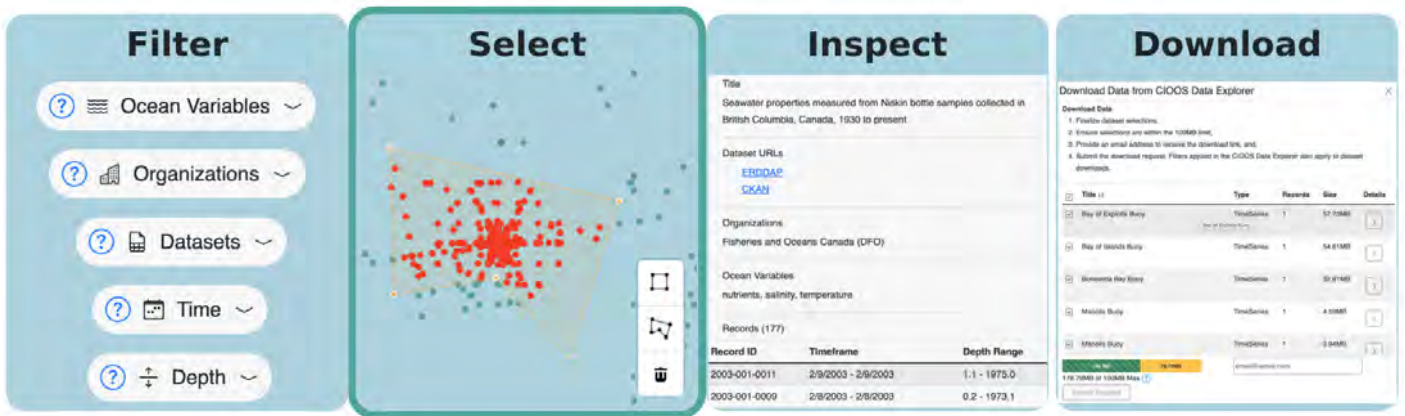
## CIOOS - Atlantic

[CIOOS Atlantic](#) is one of the principal components of the Canadian Integrated Ocean Observing System (CIOOS), which, as part of the Global Ocean Observing System (GOOS), is an open-access national system that brings together the various elements of ocean observation in Canada. It facilitates access to existing resources, new information, and technology and makes data discoverable. We have featured [CIOOS](#), its other components, [CIOOS Pacific](#) and [L'Observatoire global du Saint-Laurent \(OGSL\)](#) in the [July 2021](#), [September 2021](#) and [November 2021](#) editions of this [newsletter](#).

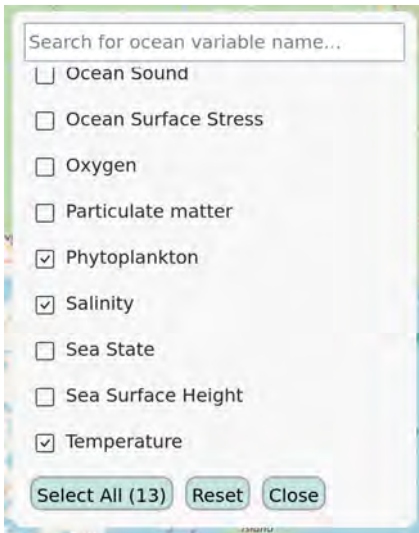


CIOOS Atlantic's open-access platform can be used to share information about the state of our ocean, to access raw ocean data from different sectors, and to explore regionally-tailored data products.

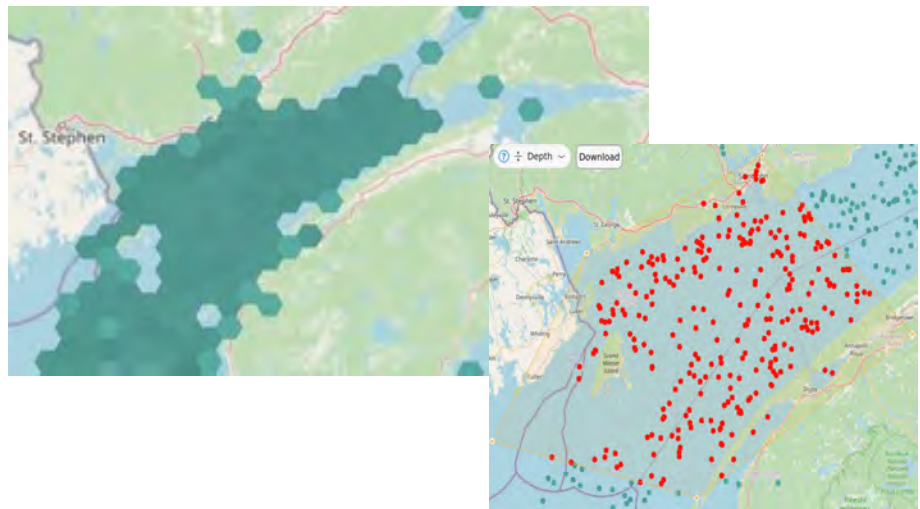
To **get** the **data** you are looking for, there is a straightforward interface with logical steps:



You can filter on several parameters including ocean variables, time and depth range:



There are multiple ways of selecting your geographic range from different zoom levels.



Individual data requests are limited to 100 MB. The request is processed and a link to the data is emailed.

CIOOS is always **accepting open access ocean data**.

Contributing to CIOOS Atlantic increases visibility for your data. Your organization can be a part of the open data community and increase access to information. Sharing your data with us encourages scientific collaboration, supports innovation, facilitates knowledge discovery, and more.

CIOOS Atlantic integrates open access data from Canada’s east coast, from Labrador to Bay of Fundy that align with CIOOS’ [Essential Ocean Variables](#).

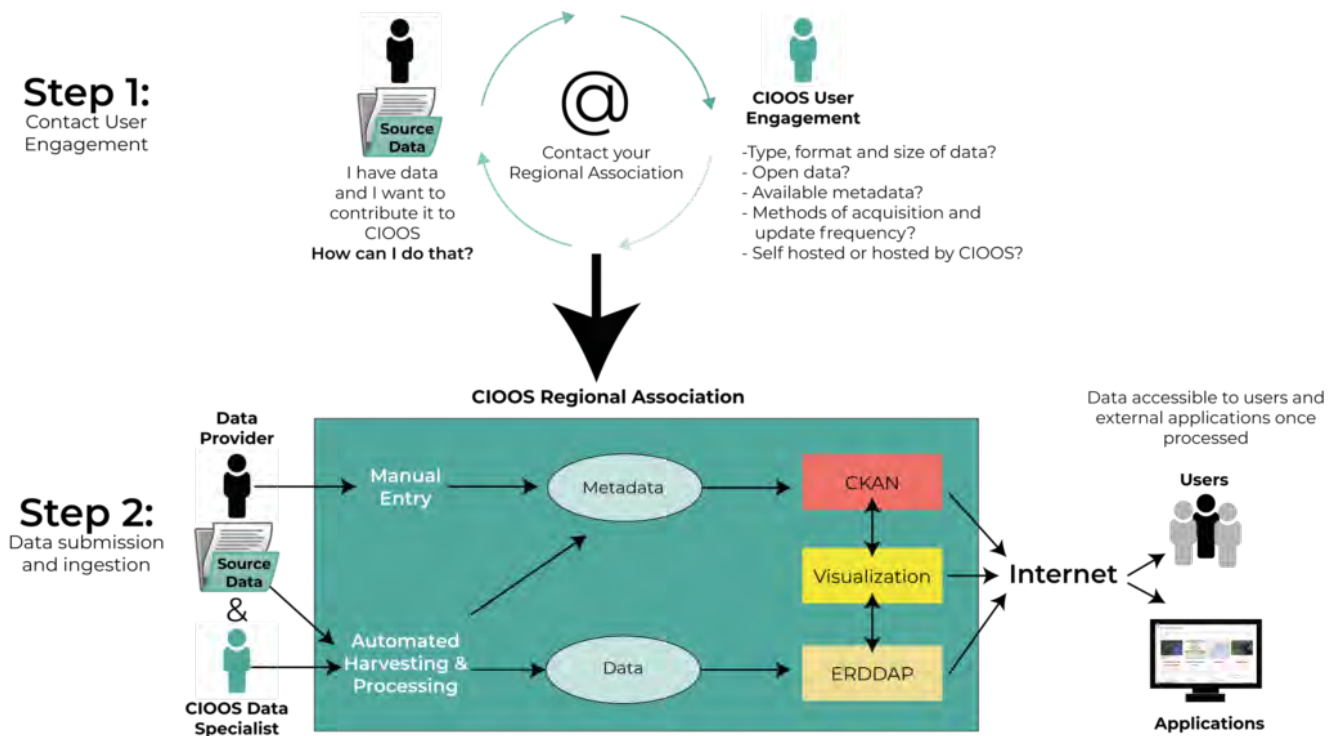
### Process for Contributing Your Data

Want to contribute your data to CIOOS? Contact us at [info@cioosatantic.ca](mailto:info@cioosatantic.ca) if you have any questions or require additional information to help you get started.

Use the CIOOS Atlantic Metadata Entry Tool to get started. To use the tool, sign in with your Google Account and click on “New Record” to begin. After you submit your metadata entry form, one of the CIOOS Atlantic staff members will be in contact with you. They will help guide you through the process of integrating your data and metadata into the data catalogue. This includes dataset and geospatial information.

### Metadata Entry Form

Once your data and metadata have been integrated, it will be open for review and refinement before being published. The dataset will be accessible to general users and CIOOS data tools after it has been processed.



See our CIOOS Atlantic User Agreement for Data Providers to understand the roles and responsibilities of CIOOS Atlantic and those who provide data.

For more information, please visit the [FAQ](#) page.

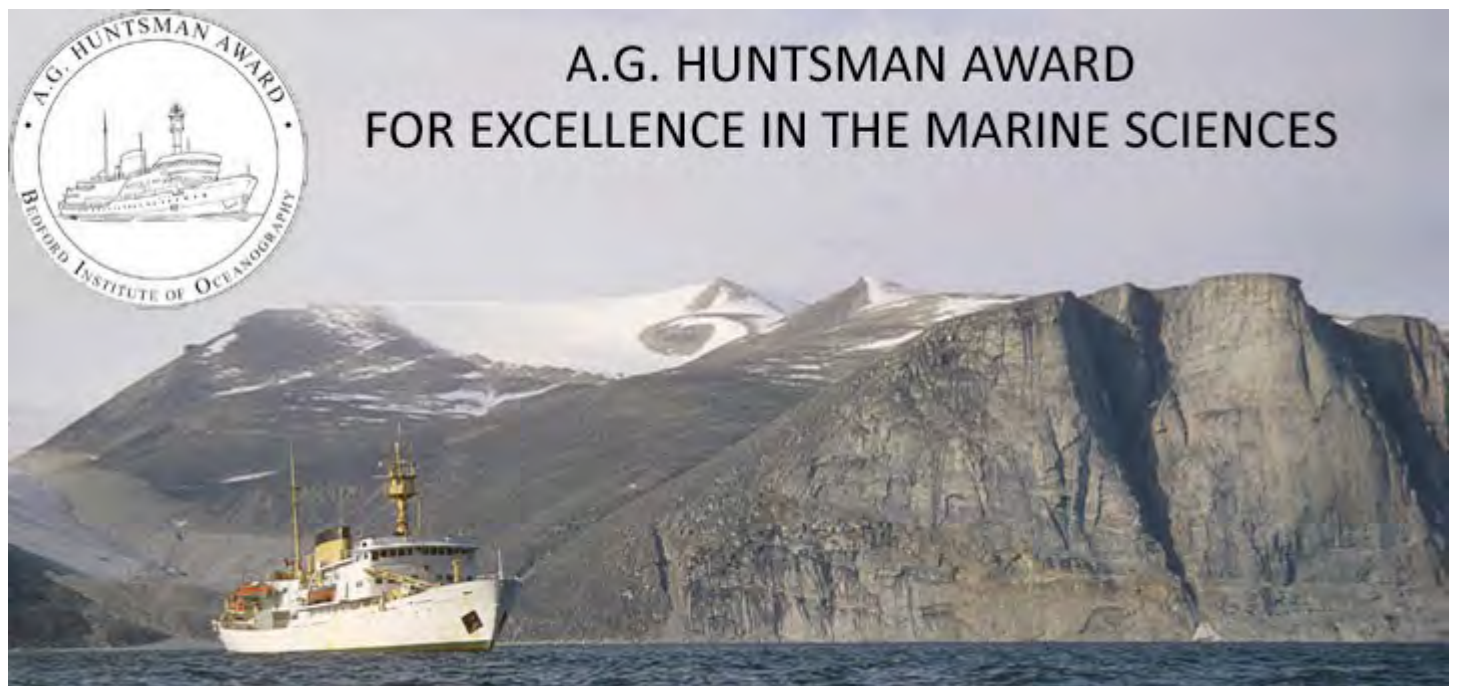
## Uta Passow - 2022 Huntsman Award Winner

The 2022 A.G. Huntsman Medal will be awarded to [Uta Passow](#) in recognition of her significant contributions to our understanding of the ocean and its ability to respond to anthropogenic changes such as climate change and oil pollution. Dr. Passow's research in marine sciences encompasses the biological pump and carbon cycling, marine gels and more recently the interaction between marine snow and oil, to help predict and mediate the impact of these ecosystem challenges.

Since her training as a field-going Biological Oceanographer in Kiel, Germany, Dr Passow has worked at the University of California, Santa Barbara, USA, at the Alfred Wegener Institute, Germany, and currently holds a Canada Research Chair at Memorial University of Newfoundland, Canada. She enjoys an international reputation for her ongoing efforts to mentor the next generation of marine scientists as well as her leadership within the marine science community.



Present plans call for a the presentation to be on Thursday November 17<sup>th</sup> and the distinguished lecture on November 18<sup>th</sup>. Both are planned to be in person with online options. Please consult the [Huntsman website](#) for details as they become available.



*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,  
[davidgreenberg@alumni.uwaterloo.ca](mailto:davidgreenberg@alumni.uwaterloo.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,  
[davidgreenberg@alumni.uwaterloo.ca](mailto:davidgreenberg@alumni.uwaterloo.ca)*

## MEETINGS

### SCMO Congrès 2023 / CMOS Congress 2023

28 mai - 1 juin 2023, St. John's (TNL) / May 28 to June 1, 2023, St. John's (NL)

#### Se retrouver sur le rocher De l'environnement marin À l'économie «bleue»

Le congrès CMOS 2023 a maintenant une affiche. Ce sera le premier congrès en personne depuis plusieurs années. Ce sera «hybride», avec environ 300 participants en personne, et le reste de la participation de manière virtuelle. Dès le succès du dernier Congrès tenu à St. John's en 2007, la demande d'inscriptions en personne doit être forte. Veuillez continuer à consulter le [site web du congrès](#) pour plus de détails pendant que les plans progressent.



#### Connecting on the Rock From the Marine Environment To the Blue Economy

The 2023 CMOS Congress now has a poster. It will be a “hybrid” meeting, with about 300 in-person attendees, and the remainder participating virtually. Based on the success of the last congress held in St. John's in 2007, the demand for in-person registrations is expected to be high. Please continue to check the [congress website](#) for details as planning progresses.

## Goldschmidt 2023

### Lyon France and online, 9-14 July 2023

**Goldschmidt** is the foremost annual, international conference on geochemistry and related subjects, organized by the European Association of Geochemistry and the Geochemical Society. [GEOTRACES](#) notes two themes of special interest to the marine geochemistry community:

#### THEME 13: CHEMISTRY AND PHYSICAL PROCESSES OF THE OCEANS AND ATMOSPHERE: NOW AND THROUGH TIME

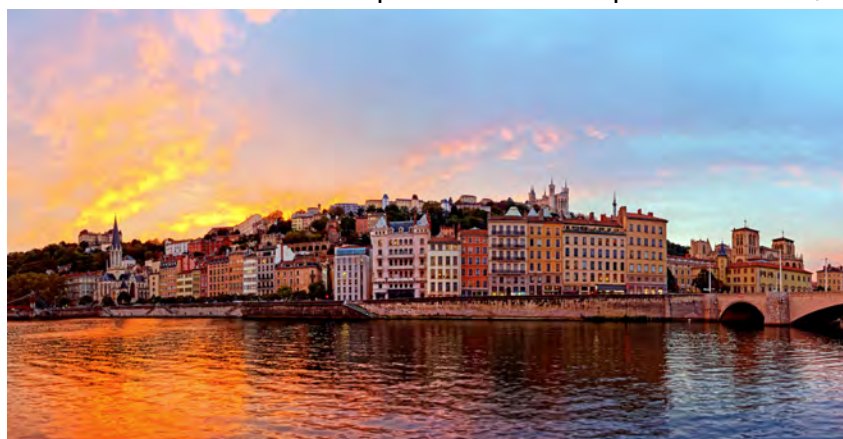
This theme will focus on all the geochemical research activities that tackle processes within the ocean, the atmosphere and the interaction between these earth compartments and the land surface. It

contains marine biogeochemistry (from source to sink), the links between biological productivity and macro- and micro-nutrients, reconstruction of past ocean states, and interactions between atmospheric chemistry, biogeochemical cycles and climate. Sessions will cover the various approaches based on modern observations, sedimentary records, numerical modelling as well as experiments or development of new geochemical proxies

#### THEME 14: OUTREACH AND OPEN SCIENCE

Geochemistry offers unique solutions to global challenges. However, translating this promise into practice necessitates an open, diverse, equitable and inclusive scientific model. This theme encourages sessions exploring all aspects of “Open Science” in geochemistry, or “geochemistry for all”. How do we achieve this goal, and what are the associated challenges and solutions?

Topics that may be addressed in this theme include: the role of geochemistry in providing solutions for society at large; providing equitable participation in emerging open access publishing models and how to support these; developing open data and software infrastructure; developing interoperable data; and developing a new scientific culture that supports open science for the future. Open science requires diverse, equitable and inclusive participation in



science, and effective engagement and communication with the public, communities, schools, the media, policymakers, and other stakeholders. Thus, sessions sharing successful experiences and materials for engaging with and communicating geochemistry with all audiences are encouraged.

In order to support broad participation, all abstracts submitted to this theme are free of charge, and can be in addition to another abstract from the

same presenting author in another theme.

Critical dates:

**15 February 2023** Grant application deadline

**1 March 2023** Abstract submission deadline

**31 May 2023** Early registration deadline

[Website](#)



## 5th International Symposium The Effects of Climate Change on the World's Oceans

**Bergen, Norway, 17-21 April 2023**

The ECCWO5 symposium will bring together experts from around the world to better understand climate impacts on ocean ecosystems, the ecosystem services they provide, and the people, businesses and communities that depend on them. The 2023 event will highlight the latest information on how oceans are changing, what is at risk, responses that are underway, and strategies for increasing climate resilience, mitigation and adaptation. It aims to identify key knowledge gaps, promote collaborations, and stimulate the next generation of science and actions.

Deadline for [abstract submissions](#) and [applications for financial support](#) is **1 November 2022**.  
Read more on the [ECCWO5 website](#).

[Follow ECCWO5 on Twitter](#).



## IEEE OCEANS 2023

**Limerick Ireland, 5-8 June 2022**

Global thought leaders and innovators in the areas of marine technology, engineering, science, research, and education will gather together at OCEANS 2023 Limerick event to learn and experience cutting-edge technologies in the field of marine science. Patrons will hear from industry experts and engineers regarding the latest research and innovations, discuss current environmental issues and policies affecting the field, and collaboratively work together to move the fields of marine technology and engineering forward.

**20th December 2022** - Deadline for abstract submission

**30th December 2022** - Deadline for tutorial proposals

**25th April 2023** -Deadline for early registration

[Website](#)



*Please send meeting announcements to  
David Greenberg,  
[davidgreenberg@alumni.uwaterloo.ca](mailto:davidgreenberg@alumni.uwaterloo.ca)*

*SVP faites parvenir vos annonces de réunion à  
David Greenberg,  
[davidgreenberg@alumni.uwaterloo.ca](mailto:davidgreenberg@alumni.uwaterloo.ca)*

## POSITIONS AVAILABLE

### Tenure-Track Chemical Oceanographer

#### Chemical Oceanography, University of South Florida, USA

The [College of Marine Science](#) (CMS) at the University of South Florida (USF) invites applications for two nine-month tenure-track faculty appointments in Chemical Oceanography. Appointments will be at the Assistant, Associate, or Professor level, with rank dependent on qualifications and experience.

We are searching for two Chemical Oceanographers who will contribute to an understanding of the ocean/climate system, past, present, and future, from fundamental disciplinary topics to global scale processes, through interactions with multi-disciplinary oceanographic and marine science faculty and programs. Qualified candidates will employ modern tools of multi-disciplinary science to understand regional and global issues critical to the ocean system. We seek high quality candidates in all disciplines of chemical oceanography, including but not limited to the following fields: organic chemistry/geochemistry, proteomics/metabolomics, nutrient biogeochemistry, nitrogen or carbon system chemistry, physical chemistry, marine pollution, ocean-atmosphere and/or ocean-land interactions, stable or radioisotope chemistry, and global biogeochemical modeling.

[Details](#)

Open until filled. Priority review of applications will begin **December 2nd, 2022**.



### Tenure Track (II) or Postdoctoral Researcher

#### JAMSTEC, Nankoku, Kochi, Japan

Japan Agency for Marine-Earth Science and Technology (JAMSTEC) has the main objective to contribute to the advancement of academic research in addition to the improvement of marine science and technology by proceeding the fundamental research and development on marine, and the cooperative activities on the academic research related to the Ocean for the benefit of the peace and human welfare.

The successful candidate will be involved in experiments on geological materials, as well as analyses of core samples and data obtained through scientific drilling projects, toward a comprehensive understanding of the characteristics of seismogenic zones and mechanics of earthquakes and faulting. The successful candidate will lead these investigations, and may also pursue their own research to extend the frontiers of our knowledge and provide new perspectives and ideas.

[Details](#)

Deadline for applications **November 7, 2022**





## Postdoc Subsurface Microbial Nitrogen Cycling

### University of Southampton, UK

Applications are invited for a postdoctoral research fellow position to study microbial nitrogen utilization and cycling processes in the subsurface serpentinizing system of the Samail Ophiolite (Oman) – based across both Marine Biogeochemistry and Geochemistry Groups of the School of Ocean and Earth Science, University of Southampton. The successful candidate will join a multidisciplinary research team, and use state-of-the-art hydro/geochemical measurements to couple with bioimaging/ molecular analyses (with others in the team), to determine exactly which form(s) of nitrogen is/are actively taken up by microbes to support the subsurface biosphere, and how energy-yielding nitrogen cycling processes may support life within a subsurface serpentinizing system. These systems have been hypothesized as analogous to that inhabited by early life on Earth, while at the same time hold strong potentials for geological carbon storage. Knowledge gained from this work may thus have important implications for geomicrobiology/ astrobiology as well as carbon capture.



[Details](#)

Deadline for applications **27 October 2022**

## Senior Engineer (Electronics, Optics & Metocean)

### Curtin University, Perth, Western Australia

The proposed position consists in managing the equipment, which includes two sister buoys. Activities include reception of the equipment from the US, its assembly and testing in the Curtin facility that will host the project, organising its deployment at sea and actively participating to the deployment, servicing the equipment on site (at sea) on an approximately monthly basis, on-site swap of the two sister buoys, shipment of the recovered equipment to the US for re-calibration. The first 6 months of the activity will include frequent interaction with the Hawaii team, and also travel to the Hawaii facility for training on the preparation and deployment of the buoys.



A sun-photometer site will also be developed on Rottnest Island as part of the [AERONET](https://aeronet.gsfc.nasa.gov) (<https://aeronet.gsfc.nasa.gov>), which will also require regular servicing.

[Job description](#)

[Application details](#)

Deadline for applications 3 November 2022

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

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

## GENERAL

### Inaugural IOCCG Trevor Platt Memorial Scholarship



The [Trevor Platt](#) Memorial Scholarship was established by the International Ocean Colour Coordinating Group ([IOCCG](#)) to honour the memory of Professor Trevor Platt (1942-2020), who was a brilliant scientist and a leader in interdisciplinary oceanographic research, with outstanding contributions in the fields of biological oceanography, theoretical ecology and the use of satellite ocean colour data for measuring ocean processes. He played an especially important role in the establishment of the IOCCG, being one of the founding members of the group, and serving as the first Chairman for a period of 10 years (from 1996-2006).



The prestigious IOCCG Trevor Platt Memorial Scholarship is aimed at providing students and early career scientists from developing countries and countries with economies in transition with the opportunity for gaining valuable training experience in the field of ocean and in-land water remote sensing and applications. The applicant must be a citizen of one of the listed eligible countries (according to SCOR), and must be residing in that country at the time of application.

Two scholarships will be awarded for the inaugural year, in 2023, at US\$ 5,000 each. Applications are open to graduate students and early career scientists (i.e., having received a Ph.D. within the past 5 years) involved in any aspect of ocean optics and ocean colour research and applications relevant to the IOCCG Objectives. The scholarship offers the opportunity for individuals to conduct hands-on research, or to receive in-depth training, at a foreign institute. Funds will be provided for each recipient to travel to an institute outside their home country for a short period of time (up to 3 months) to work with experts in the field. Stays of longer than 3 months may be



considered if sufficient justification is provided, and if total costs to IOCCG do not exceed US\$ 5,000 (see scholarship conditions below). The internship can be held in any country in the World apart from the applicant's own country of residence. The scholarship funds are granted on a competitive basis (see Section 3 below).

See the [website](#) for other conditions.

Deadline for applications **11 November 2022**

## École d'été Institut France-Québec : Le littoral sous haute surveillance

[De Québec-Océan Infolettres](#), Août 2022

Du 17 au 23 juillet 2022, six étudiants-es de l'ISMER (Camille Brice, Éléonore Dansereau-Macias, Olivier Hérard, Florian Jacques, Zélie Schuhmacher et Laïsa Peixoto-Ramos) ont participé à l'université d'été organisée par l'Institut France-Québec Maritime (IFQM) et l'Observatoire Aquitain des Sciences de l'Univers (OASU) à Bordeaux. Le but était de présenter les enjeux et les techniques liées à l'étude du milieu littoral et estuarien en termes de morphologie, de biologie et de physicochimie, ceci grâce à des cours, des travaux dirigés et de terrain. Il a ainsi été question d'observations du littoral, de qualité écologique, de physico-chimie des eaux de transitions, d'évolution morpho-sédimentaire des plages sableuses et de microplastiques. Durant les 7 jours de la formation, les participants-es ont pu échanger avec l'ensemble de



l'équipe enseignante, dont *Atelier de mesure topographique du profil de plage grâce à des positionnements par GPS différentiels.* Photo : © Camille Brice UQAR) et Alfonso Mucci (McGill) faisaient partie, ainsi que les autres étudiants-es, techniciens-nes, ingénieurs-es et chercheurs-es y participant. Ces discussions ont favorisé l'ouverture sur de nombreux autres sujets de recherche. Qui sait, ces rencontres aboutiront peut-être à des collaborations futures...

## NSERC Prizes - Science Promotion

The NSERC Awards for Science Promotion honour people and groups that are inspirational in the way they promote science to the general public. The Awards are an opportunity for Canada's science community to recognize, support and encourage outstanding science promoters.



The achievements of individual and group recipients of the NSERC Awards for Science Promotion will be celebrated at a public ceremony. Individual recipients will receive a \$10,000 award and group recipients a \$25,000 award. In both cases, the funds are to support further science promotion activities. Funds paid to winners of this prize are subject to the [PromoScience Grants Guide](#).

Nomination deadline: **November 25 before 8:00 p.m. (ET)**. If the deadline falls on a weekend or federal holiday, your nomination must reach NSERC before **8:00 p.m. (ET)** the following working day.

Science promotion activities with award potential could include activities such as:

- organizing science camps, fairs, clubs or mentorship programs with youth organizations;
- enhancing equity, diversity and inclusion in existing programming;

- creating new learning materials;
- sharing best practices for outreach in science and engineering;
- developing science and engineering-related co-op programs or job shadowing initiatives;
- arranging demonstrations, visits and lectures;
- writing books and articles;
- creating radio or television programs;
- generating public involvement through multi-media programs.

[Nomination Form](#) [Terms and Conditions Form for Nominees](#) [Terms and Conditions Form for Nominators](#)

## Technopole maritime du Québec

Technopole maritime du Québec (TMQ) est un organisme à but non lucratif qui travaille à la promotion et au développement des secteurs maritimes innovants du Québec : du transport maritime aux technologies marines, en passant par les biotechnologies marines.

Véritable interface entre l'industrie et la recherche, TMQ est un animateur et un agent de liaison unique. Sa spécialité est de générer des interactions, de la croissance et de l'innovation dans les secteurs maritimes.

Technopole maritime du Québec rassemble et mobilise les intervenants des secteurs maritimes innovants du Québec autour d'objectifs communs, afin de créer un environnement propice au développement des entreprises et des organismes, d'accroître les interactions industrie-recherche et d'assurer leur rayonnement sur les scènes nationale et internationale.

Parmi les activités de TMQ figure la production du bulletin BioMar. Au printemps 2021, Technopole maritime du Québec (TMQ) s'est vue confier le mandat d'animer et de coordonner la



filière québécoise des biotechnologies marines via la nouvelle vision maritime du Gouvernement du Québec Avantage Saint-Laurent. Dans ce cadre, le Bulletin BioMar se veut un outil de diffusion des actualités et informations clés pour la filière au Québec. Après avoir mené une consultation afin d'identifier les besoins de la filière et de ses intervenants au printemps et à l'été 2021, une

programmation d'activités tri-annuelle a été élaborée pour assurer un soutien efficace et cohérent des acteurs. La programmation d'activités BioMar 2021/2024 comprend à la fois des activités virtuelles et présentiels. Elle veille ainsi à atteindre l'ensemble des organisations de la filière - entreprises, centres de recherche, ministères, établissements de formation mais aussi organismes de soutien - tant en régions que dans les grands centres. [L'édition de septembre](#) présente « une nouvelle feuille de route pour le secteur algal au Québec », ainsi que des activités passées, des plans futurs et des nouvelles de la filière.

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

Previous [newsletters](#) may be found on the [CNC-SCOR](#) web site. The CNC-SCOR website is hosted by [CMOS](#).

Newsletter #127 will be distributed in **November 2022**.

Please send contributions to David Greenberg  
[davidgreenberg@alumni.uwaterloo.ca](mailto:davidgreenberg@alumni.uwaterloo.ca)

## Subscribing and Unsubscribing

If you wish to subscribe to this newsletter or cancel your subscription, please visit the website:

<http://www.mailman.srv.ualberta.ca/mailman/listinfo/cnc-scor>

Les [bulletins](#) antérieurs se retrouvent sur le site web du [CNC-SCOR](#). Le site du CNC-SCOR est hébergé par le [SCMO](#).

Le Bulletin #127 sera distribué en **novembre 2022**.

Veillez faire parvenir vos contributions à David Greenberg, [davidgreenberg@alumni.uwaterloo.ca](mailto:davidgreenberg@alumni.uwaterloo.ca)

## Abonnement et désabonnement

Si vous souhaitez vous abonner à cette newsletter ou annuler votre inscription, veuillez visiter le site web:

<http://www.mailman.srv.ualberta.ca/mailman/listinfo/cnc-scor>

## CNC-SCOR

### Members/ Membres

Paul Myers – Chair (U Alberta)  
David Greenberg – Secretary (DFO-BIO)  
Michael Scarratt (DFO-IML)  
Paul Snelgrove (Memorial)  
Stephanie Waterman (UBC)  
David Fissel (ASL)  
Lisa Miller (DFO)

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

Peter Galbraith (IAPSO)  
Keith Lennon (DFO-HQ)  
Andrew Stewart (DFO-HQ)  
Jim Abraham (President CMOS)  
Gordon Griffith (Executive Director CMOS)  
Jean-Éric Tremblay (Québec-Océan)  
David Beauchesne (Québec-Océan étudiants)  
Ada Loewen (CMOS Students)  
Jay Cullen (GEOTRACES)  
Steve Mihaly (ONC)  
Martine Lizotte (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](http://WWW.CNCSCOR.CA)