



Report on Activities During 2018

Purpose:

The purpose of SCOR is to further international scientific activity in all branches of oceanic research. The Scientific Committee on Oceanic Research (SCOR) is a non-governmental organization, created in 1957 by the International Council of Science (ICSU). SCOR promotes international cooperation in planning and conducting interdisciplinary oceanographic research programs and solving methodological and conceptual problems that hinder research. SCOR promotes scientific excellence and integrity and has direct access to the international ocean science community. The primary purpose of CNC-SCOR is to provide communication between the Canadian Ocean Science community and the international activities that come under SCOR's umbrella. Under the auspices of CMOS, CNC-SCOR brings together the Canadian Ocean Science community across disciplinary boundaries and the boundaries of universities, government and private sector organizations.

CNC-SCOR Highlights for 2018

CNC-SCOR's Annual Meeting was held 10 June 2018 in conjunction with the 2018 Scientific Congress of the CMOS, in Halifax, Ontario.

Small international Working Groups (WGs) are the core of SCOR's activities. These WGs -- typically with no more than 10 members -- are established in response to proposals submitted to SCOR by the international ocean science community. In general, they are established to address well-defined topics of emerging importance that would benefit from coordinated international attention. WGs are expected to provide a final report, organize a workshop or symposium, or otherwise make significant contributions to advancing the topic at hand within a 3 - 4 year period. Canadian participation on SCOR Working Groups has remained about the same compared to 2016 and 2017. There are currently 14 Canadians serving on 8 of the 12 active WGs.

In 2018, CNC-SCOR reviewed the proposals for nine new international working groups. CNC-SCOR provided detailed written comments and a prioritized list to SCOR's Executive Director. Among the elements reviewed, the CNC-SCOR examination looked for Canadian Content and opportunities for Canadian involvement. These proposals, were discussed during the Executive Meeting of SCOR in

Plymouth, England in September 2018. The International Committee approved two new initiatives as in 2017. The two approved working groups are:

- Active Chlorophyll fluorescence for autonomous measurements of global marine primary productivity
- Toward a new global view of marine zooplankton biodiversity based on DNA metabarcoding and reference DNA sequence databases (MetaZooGene)

The proposals for the two new working groups were strongly supported by CNC-SCOR, in either or must fund or should fund categories. A Canadian scientist will be a co-chair of one of the new Working Groups – Phil Tortell (UBC) of Active Chlorophyll fluorescence for autonomous measurements of global marine primary productivity.

CNC-SCOR published six bi-monthly electronic issues of the Canadian Ocean Science Newsletter during 2018. The subscriber database is dynamic and is continually reviewed to eliminate non-functioning addresses and currently stands at ~385. In addition to articles on ocean science and updates in ocean science programs, the newsletter reports milestones in the careers of Canadian ocean scientists, includes job postings and training opportunities for graduate students, young scientists and teachers and communicates news of numerous prestigious awards presented to Canadian scientists. The newsletter also provided status reports on the work of SCOR's international Working Groups.

CNC-SCOR annually supports a national lecture tour to foster cross-Canada communication in ocean science. Two prominent Canadian scientists are selected to travel and speak in oceanographic centres on the opposite side of the country. These tours promote ocean science, support student education through the talks at universities, and help the speakers build professional networks. As in the past year, this year's speakers will be presenting in both 2018 and 2019. Dr. Jody Klymak, an associate professor specialized in mixing and small scale ocean flows, from the University of Victoria in Victoria BC, is the speaker from the west making presentations at eastern venues. His presentations were entitled *Measuring sub-mesoscale lateral stirring*. In December he spoke to enthusiastic audiences at Memorial University of Newfoundland, The Bedford Institute of Oceanography, Dalhousie University, the University of Quebec at Rimouski and at McGill in Montreal. Dr Anna Metaxas, a professor working on larval and deep sea ecology, from the Dalhousie University, is the speaker from the east making presentations at western venues. She will be speaking on her research on *Evidence-based conservation: ecological connectivity and the design of marine protected areas*. Dr. Metaxas is scheduled to speak in February at the University of Alberta, Simon Fraser University, the University of British Columbia, the Pacific Biological Station and the University of Victoria.

For a ninth year, CNC-SCOR provided travel support to a school teacher to participate in Project Maury, which involves training at the US Naval Academy in Annapolis, Maryland. Project Maury promotes understanding of the physical foundations of oceanography through a dedicated training course directed at school teachers. In 2018, CNC-SCOR and CMOS jointly sponsored sponsored Andrew Young, teaching in Courtenay, B.C, for this course. The workshop included a wide range of oceanographic topics

and activities on-site (classroom and lab) and off-site, including a field trip on a research vessel. Following his return, Mr. Young carried out two presentations to share what he learned to other teachers (41 in total). We request these presentations from the teacher winning the award so as the knowledge gained from our funding support goes to the widest community it can.

SCOR-International partners with other organizations to sponsor several large scale international science programs. Of these, Canadian scientists serve on the committees for GEOHAB, IMBER, GEOTRACES, SOLAS, and IMAGES. CNC-SCOR provides another way for these programs to communicate updates to the Canadian community through the Canadian Ocean Science Newsletter.

The CNC-SCOR chair Paul Myers was elected to the international SCOR Executive as Secretary in Plymouth in 2018 for a 4 year term. Thus he will be active in the international organization during this time period.

CNC-SCOR maintains an internally circulated file showing actions agreed to and milestones reached for each year. A mid-term meeting was held by conference call on 29 January 29 2019 to discuss progress and take decisions on outstanding items.

CNC-SCOR created a new award for Early Career Scientists that was first awarded at the CMOS Congress in Fredericton at the start of June, 2016. The recipient for 2016 was Stephanie Watermann from the University of British Columbia. CNC-SCOR funded her travel to present a paper at the CMOS congress and receive the award. She also agreed to serve on the CNC-SCOR committee for a minimum of 1 year as a condition for receipt of the award – and in fact is still an active committee member. The recipient for 2017 was Kimberley Davies, from Dalhousie University. She served on the CNC-SCOR committee for two years. The 2018 winner was Daniel Boyce from the Bedford Institute of Oceanography.

Other CNC-SCOR activities included: working with sister organizations in Canada and abroad on ocean research initiatives; assisting IAPSO representatives in obtaining input from the Canadian ocean science community for the compilations of required annual reports; and maintaining its web site (<http://cncscor.ca>). CNC-SCOR's pages on the CMOS website are maintained by the CMOS_webmaster. Among the various pages are background information on CNC-SCOR, a membership list, information about and links to ocean science activities, and historical photos of Canadian oceanographers and vessels. All material stored on the site is searchable, and past copies of the newsletter can be retrieved. We have initiated the process of updating and modernizing our website.

CNC-SCOR Members Active in 2018

Paul Myers – Chair (U Alberta)

Rob Macdonald – Past Chair (DFO-IOS)

David Greenberg – Secretary (DFO-BIO)

Markus Kienast (Dalhousie)

Marty Taillefer (Maritime Way) – term ended at AGM

Ian Perry (DFO-PBS) – term ended end of 2018

Paul Snelgrove (Memorial)

Stephanie Waterman (UBC)

Kimberley Davies (Dalhousie) – term ended at AGM

Members Ex-Officio/ Membres d'office

Jody Klymak (IAPSO)

Keith Lennon (DFO-HQ)

Wayne Richardson (President CMOS)

Gordon Griffith (Executive Director CMOS)

Lisa Miller (SOLAS)

Michael Scarratt (SOLAS Canada)

Jean-Éric Tremblay (Québec-Océan)

David Beauchesne (Québec-Océan étudiants)

Laura Gillard (CMOS students)