



## SCOR Newsletter

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Twitter: @SCOR\_Int

Website: [www.scor-int.org](http://www.scor-int.org)

### New SCOR Executive Committee Member



After the SCOR annual meeting in September 2016, Patricia Miloslavich was designated by the International Association for Biological Oceanography (IABO) as its representative on the SCOR Executive Committee.

Miloslavich is the Project Officer of the GOOS Biology and Ecosystems Panel based at the Australian Institute of Marine Science, and a senior

professor at the Department of Environmental Studies of Simón Bolívar University in Venezuela. She is a marine biologist with a Ph.D. in Oceanography from the University of Quebec at Rimouski. She has more than 20 years of academic experience in course and curricula development, teaching, and research activities related to marine biology and ecology. Miloslavich was one of the two senior scientists of the Census of Marine Life program leading the global synthesis of the state of knowledge of marine biodiversity worldwide carried out by a network of researchers from all over the world, and established and co-led the South American Research Group in Coastal Ecosystems. The impact and scientific relevance of her scientific publications and her communication efforts to broader audiences, led to Miloslavich receiving the Eugenio Mendoza Award in 2015, the highest achievement a scientist in any discipline can receive in Venezuela.

### SCOR at Ocean Sciences 2018

SCOR will have a booth at the Ocean Sciences 2018 meeting on 11–16 February 2018 in Portland, Oregon (USA). So far, the following SCOR-sponsored groups will be meeting in conjunction with Ocean Sciences 2018:

- WG 143: Dissolved  $N_2O$  and  $CH_4$  measurements: Working towards a global network of ocean time series measurements of  $N_2O$  and  $CH_4$
- WG 145: Modeling Chemical Speciation in Seawater to Meet 21st Century Needs (MARCHEMSPEC)
- WG 147: Towards Comparability of Global Oceanic Nutrient Data (COMPONUT)
- WG 151: Iron Model Intercomparison Project (FeMIP)

This information will be updated in later newsletters.

### SCOR and Policymakers

In the past, SCOR mainly interacted with policymakers through the Intergovernmental Oceanographic Commission (IOC) of UNESCO. In the past year, however, SCOR has been making new efforts to provide scientific expertise beyond IOC. SCOR worked with IAPSO and IUGG to provide [input to G7 Science Ministers](#) meeting in Tsukuba, Japan. The SCOR President, Marie-Alexandrine Sicre, has continued to participate in G7-related activities. She attended a gathering of ocean science technical and policy experts from G7 countries in November 2016 at the UK's National Oceanography Centre in

Southampton. The goal of the meeting was to refine proposals for the five Actions that G7 country Science Ministers have asked experts to address in the context of the rapidly changing ocean, calling for a long-term sustainable effort to ensure health and sustainable use of ocean and seas. To this end, priorities were discussed in order to reach more coordinated and efficient networks for ocean observing systems and to provide support to the UN Regular Process for the next World Ocean Assessment.

SCOR has also been helping represent ICSU as part of the UN Ocean Conference, which will be held on 5–9 June 2017 at the UN Headquarters in New York City (see <https://oceanconference.un.org/>). The Ocean Conference is designed to address Sustainable Development Goal (SDG) #14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development, of the UN Agenda 2030. SCOR contributed to a statement prepared by ICSU for the 15–16 February Preparatory Conference, which Ed Urban attended on behalf of SCOR (see <http://www.icsu.org/news-centre/news/scientific-and-technological-community-delivers-statement-at-united-nations-on-oceans>).

## News from WGs and Large-Scale Ocean Projects



**Integrated Marine Biosphere Research (IMBeR)**—Jointly sponsored by SCOR and Future Earth, IMBeR changed the definition of its acronym and adopted a new logo (see above), to reflect the second phase of the project. IMBeR is preparing for its [fifth Imbizo open science conference](#), to be held in Woods Hole, Massachusetts, USA on 2–5 October 2017.

**Surface Ocean – Lower Atmosphere Study (SOLAS)**—The new [SOLAS Science Plan and Organization](#) document has been approved by the sponsors of SOLAS (SCOR, Future Earth, WCRP, and iCACGP). The [SOLAS Implementation Strategy: 2016–2018](#) is available also.

**GEOTRACES**—The GEOTRACES project is on schedule to release its 2017 Intermediate Data Product in 13–18 August 2017, at the Goldschmidt Conference in Paris, France. Iron data from GEOTRACES cruises and process studies are the basis for a review paper that recently appeared in the journal *Nature*, updating our understanding of how iron cycles in the ocean (see Tagliabue et al. 2017. The integral role of iron in ocean biogeochemistry. *Nature* 543:51–59.)

**SCOR/POGO International Quiet Ocean Experiment (IQOE)**—The IQOE Science Committee met in London on 27–28 January 2017. The purpose of the meeting was to continue work on implementation of the project and to review

the status of each ongoing activity. IQOE currently has 5 working groups in various stages of development. The IQOE WG on Standardization has gotten off to a good start on its tasks (see [http://www.scor-int.org/IQOE\\_WGs\\_Standardization.htm](http://www.scor-int.org/IQOE_WGs_Standardization.htm)). The membership of the IQOE WG on Acoustic Measurement of Biodiversity on Coral Reefs was approved and members are being contacted to activate the group. The working groups on Data Management and Access, Arctic Acoustic Environment, and Stakeholder Relations are under development.



Members of IQOE Science Committee, sponsors, and guests at IQOE meeting

**Second International Indian Ocean Expedition (IIOE-2)**—co-sponsored by SCOR, the Intergovernmental Oceanographic Commission (IOC), and the Indian Ocean Global Ocean Observing System (IO-GOOS)—held the first meeting of its Steering Committee on 2–4 February 2017 in Perth, Australia. The meeting was held in conjunction with the meetings of several other Indian-Ocean focused groups.

The chairs of the IIOE-2 Science Themes and Working Groups have been named:

### Science Themes

**Theme 1:** Human Impacts – Ben Milligan (UK)

**Theme 2:** Boundary Current Dynamics, Upwelling Variability, and Ecosystem Impacts – Yukio Matsumoto (Japan) and P.N. Vinayachandran (India)

**Theme 3:** Monsoon Variability and Ecosystem Response – Joaquim Goes (USA) and Adrian Matthews (UK)

**Theme 4:** Circulation, Climate Variability, and Change – Amit Tandon (USA) and Jerome Vialard (France)

**Theme 5:** Extreme Events and their Impacts on Ecosystems and Human Populations – Chari Pattiaratchi (Australia)

**Theme 6:** Unique Geological, Physical, Biogeochemical, and



Ecological Features of the Indian Ocean – Jérôme Dymont (France)

### **Working Groups**

**WG 1:** Science and Research – Hermann Bange (Germany)

**WG 2:** Data and Information Management – Cynthia Chandler (USA) and Harrison Ong'Anda (Kenya)

**WG 3:** Capacity Development – Zainal Arifin (Indonesia) and Nasser Zaker (Iran)

**WG 4:** Operational and Coordination – Shailesh Nayak (India)

**WG 5:** Outreach and Communication – Faiza Al-Yamani (Kuwait)

**WG 6:** Translating Science for Society – Rezah Badal (Mauritius)

**WG 7:** Resources and Sponsorship – Nick D'Adamo (Australia) and Rajan Sivaramakrishnan (India)

The membership of these groups will be populated in the coming months.

## **4<sup>th</sup> African Research Discovery Camp**

The 4<sup>th</sup> African Discovery Camp for Research-based Training in Science for the Sustainable Use and Management of Marine Ecosystems and their Resources will be held on 13 April–12 May 2017. The Course Coordinator is Dr. Chibo Chikwililwa from the University of Namibia.

Course participants will learn about microbial and geochemical oceanography, in particular about ways in which microbes participate in geochemical cycles in upwelling ecosystems and how chemical, physical and atmospheric processes in turn influence microbial physiology. Approximately 14 PhD students, postdoctoral researchers, honors MSc students, and professors are expected to participate. Previous camps have brought together students and faculty from Africa with participants from other parts of the world.

The Research Camps were launched in 2014 as an outcome of the SCOR Visiting Scholar and Regional Graduate Network for Oceanography activities.

For more information, see [http://www.microeco.ethz.ch/rgno-namibia\\_17/RGNO\\_Namibia\\_17.html](http://www.microeco.ethz.ch/rgno-namibia_17/RGNO_Namibia_17.html).

## **2017 SCOR Visiting Scholars**

Thirty applications were received for the Visiting Scholars program this year, a record number. Normally, three Visiting Scholars are approved each year, but this year the SCOR Executive Committee approved funding for two additional

Visiting Scholars, from a combination of donations from the international ocean science community (through a crowdfunding campaign) and from SCOR dues. The SCOR Committee on Capacity Building approved the following five Visiting Scholars:

- **Sam Dupont** (Sweden) will teach a course on experimental design for ocean acidification experiments, will provide mentorship/guidelines for setting up a laboratory to conduct ocean acidification experiments, and will give a public lecture on the topic of “Ocean acidification and its impact on marine ecosystems” at the University of Costa Rica in October–November 2017.



- **Julia Jabour** (Australia) will teach for two weeks on the legal and policy status developments of the Southern Ocean in relation to the Antarctic Treaty System and the UN Convention on the Law of the Sea, at the Iranian National Inst. for Oceanography and Atmospheric Science.

- **Catherine Jeandel** (France) will teach for two to three weeks in July 2017 on marine chemistry, particularly trace elements and isotopes, at the Universidade Federal da Bahia, in Brazil. Jeandel will present a short course and provide laboratory training on isotope dilution techniques for measuring concentrations of rare earth elements.



- **Josep Pelegrí** (Spain) will teach for one month in May–June 2017 at the Universidad de Antioquia in Colombia, on the topic of ocean circulation, emphasizing the basic dynamic processes in the ocean at multiple time and space scales. His teaching also will cover the interactions between physical processes and biogeochemical response, with applications including the large-scale circulation from the Atlantic Ocean and smaller scale circulation in coastal and estuarine zones.

- **Janet Sprintall** (USA) will teach a two- to three-week course on Physical Oceanography in the Indonesian Seas at Mulawarman University in Indonesia in November–December 2017. She will particularly provide an introduction to physical oceanography, ocean currents, and tides, and a survey of oceanography using oceanographic instruments such as CTD, ADCP. Sprintall will also conduct a workshop about the Makassar Strait and surrounding area.



It is still possible to donate to the 2017 SCOR Visiting Scholars support at <https://www.razoo.com/story/WcIndf>.

## SCOR Web site

The SCOR Executive Committee suggested that new information should be added to the SCOR Web site, to make it more useful for the ocean science community worldwide. Four new tabs were added to the main menu of the SCOR Web site:

1. **Opportunities**—This tab leads to information about how scientists in the global ocean science community can get involved in SCOR and take advantage of SCOR funding opportunities. The tab has links leading to calls for proposals for SCOR working groups and the SCOR Visiting Scholars program, and lists meetings for which SCOR is providing support for scientists from developing countries.
2. **News**—This page lists news items that have been disseminated through the SCOR Twitter feed.
3. **Achievements**—This page describes SCOR's role in ocean sciences over SCOR's history and specific topics on which the science was enhanced by SCOR's involvement. Topics included on the page so far include the Equation of State of Seawater, Iron in the Ocean, Ocean Acidification, Ocean Carbon, Pelagic Fish Populations and Climate Change, and Trace Elements and Isotopes in the Ocean. The topics selected are those for which SCOR played a major role, either alone, or in cooperation with partner organizations.
4. **Partnerships**—SCOR conducts many activities alone, but also has worked with many other organizations over its history. This page lists current partners and provides links to their Web sites.

## SCOR and Social Media

If you received this newsletter directly from SCOR, you are on the email list. Anyone not yet on the list can join by clicking the link below.

Join SCOR Email List

## SCOR History

A list of individuals involved in SCOR since 1957 has been compiled, with more than 2,000 individuals included on the [list](#).

## Future SCOR Annual Meetings

**2017**— The 2017 SCOR Annual Meeting will be held in Cape Town, South Africa at the Two Oceans Aquarium on 4–6 September 2017. More details will be available later.

**2018**— The 2018 SCOR Annual Meeting will be held in Plymouth, UK on 5–7 September 2017.

**2019**— SCOR is in discussions with a potential host country for the 2019 SCOR Annual Meeting. Details will be announced when available.

**For additional information about SCOR activities, please see the SCOR Web site:** <http://www.scor-int.org>. To reach Secretariat staff, please send an email to Ed Urban ([Ed.Urban@scor-int.org](mailto:Ed.Urban@scor-int.org)).

## ACRONYMS

<b>GOOS</b>	Global Ocean Observing System
<b>iCACGP</b>	International Commission on Atmospheric Chemistry and Global Pollution
<b>IIOE-2</b>	Second International Indian Ocean Expedition (co-sponsored by SCOR, IOC, and IO-GOOS)
<b>IMBeR</b>	Integrated Marine Biosphere Research project (co-sponsored by SCOR and Future Earth)
<b>IOC</b>	Intergovernmental Oceanographic Commission
<b>IQOE</b>	International Quiet Ocean Experiment (co-sponsored by SCOR and POGO)
<b>POGO</b>	Partnership for Observation of the Global Oceans
<b>SCOR</b>	Scientific Committee on Oceanic Research
<b>SOLAS</b>	Surface Ocean – Lower Atmosphere Study (co-sponsored by SCOR, Future Earth, WCRP, and iCACGP)
<b>WCRP</b>	World Climate Research Programme
<b>WG</b>	working group