



Place du Capitole, Toulouse, France

SCOR Newsletter No. 16

April 2010

### 2010 Election for SCOR Officers

Nominations for the 2010 election for SCOR officers opened on 12 March 2010 and will close on 12 May 2010. All three SCOR Vice President positions and the SCOR Secretary position are open for nominations. SCOR national committees and Associate Organizations are eligible to submit nominations. See <http://www.scor-int.org/2010GM/Elections>.

### Symposia on the Ocean in a High-CO<sub>2</sub> World

Twenty papers have been accepted for the special issue of *Biogeosciences* with papers from the Second Symposium on The Ocean in a High-CO<sub>2</sub> World (see [http://www.biogeosciences-discuss.net/special\\_issue43.html](http://www.biogeosciences-discuss.net/special_issue43.html)).

SCOR, IOC, and IGBP are co-sponsors of the Third Symposium, to be held in 2012. A planning committee of 14 members has been approved by the co-sponsors. Ulf Riebesell (Germany) is chairing the committee; other members are Claire Armstrong (Norway), Peter Brewer (USA), Ken Denman (Canada), Richard Feely (USA), Kunshan Gao (China-Beijing), Jean-Pierre Gattuso (France), Dan Laffoley (UK), Yukihiko Nojiri (Japan), James Orr (France), Hans-Otto Poertner (Germany), Carlos Eduardo Rezende (Brazil), Daniela Schmidt (UK), and Anya Waite (Australia). The committee will meet in December 2010 to begin planning the symposium.

Bids have been requested to host the 2012 symposium and are due by 30 April 2010 (see [http://www.scor-int.org/High\\_CO2-III/Bids.pdf](http://www.scor-int.org/High_CO2-III/Bids.pdf)).

### SCOR Visiting Scholars Program

Several applications were received for the SCOR Visiting Scholars Program. Vadim Mokievsky of the P.P. Shirshov Institute of Oceanology in Moscow (see photo below) was selected as a 2010 SCOR Visiting Scholar to spend one month at Annamalai University to conduct field and laboratory training in the study of marine meiofauna. Other applications are under consideration.



### Working Groups

The 2010 Call for SCOR Working Group proposals is closed and six proposals were received:

1. [Global Analysis of coldwater Coral Ecosystems GLACES](#)
2. [Beyond the Conveyor: Advancing Training and Research in 'Palaeo Physical Oceanography'](#)
3. [Organic Ligands – The Key Control on Trace Metal Biogeochemistry in the Ocean](#)
4. [Modern Planktic Foraminifera and Ocean Changes](#)
5. [Biodiversity Patterns of the South Atlantic Mid-Ocean Ridge](#)
6. [Research Vessel Cruise Information Coordination](#)

SCOR hopes to be able to support two new working groups for start in 2011.

### **SCOR/LOICZ/IAPSO WG 122 on Mechanisms of Sediment Retention in Estuaries**

—This group recently published its work in a special issue of *Estuarine, Coastal and Shelf Science* (see reference below). We thank the co-chairs, Gerardo Perillo and James Syvitski, for their leadership of the group, and thank all the members of the group who contributed to the special issue.

### **WG 131 on The Legacy of in situ Iron Enrichment: Data Compilation and Modeling**

—Philip Boyd, a co-chair of the group, convened an afternoon meeting in Portland, Oregon (USA) in conjunction with the Ocean Sciences meeting in February to announce the [database from iron enrichment experiments](#) now available at the Biological and Chemical Oceanography Data Management Office (BCO-DMO) in Woods Hole, Massachusetts (USA). Dorothee Bakker, the other co-chair, will present the same information at the European Geosciences Union meeting in May 2010. The next step will be for the co-chairs to plan a meeting in 2011 to bring together modelers to discuss uses of the data.

### **SCOR/WCRP/IAPSO WG 136 on Climatic Importance of the Greater Agulhas System**

—This group met for one day in conjunction with the Ocean Sciences meeting in Portland. Group members and guests discussed the observations and modeling already in place and planned for the Agulhas Current region, scoped out a review paper on the status of knowledge of the Agulhas Current and its effect on regional to global climate, and began planning for a workshop to be held in Africa in 2011. The SCOR Committee on Capacity Building will assist the working group in developing its capacity building activities.

### **Fast-Track Initiatives of the International Geosphere – Biosphere Programme (IGBP)**

—SCOR is participating in two IGBP Fast-Track Initiatives (FTIs):

- [Upper-Ocean Nutrient Limitation: processes, patterns and potential for change](#); and
- [Megacities and the Coastal Zone: air-sea interactions](#).

These activities are similar to SCOR working groups in some ways, but are focused on subjects that cross two or more IGBP projects. SCOR has participated in several past FTIs (e.g., iron, paleo-ocean acidification) and looks forward to contributing to these new activities.

## **Large-Scale Ocean Research Projects**

**SCOR GEOTRACES Project**—GEOTRACES officially opened its International Project Office (IPO) at the Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS) in Toulouse, France in January 2010. The IPO is managed by Elena Masferrer-Dodas as Executive Officer (right, below), with local scientific oversight by Catherine Jeandel (left, below), chair of the French SCOR Committee. The IPO will be funded by a consortium of sponsors, including the U.S. National Science Foundation, Centre National de la Recherche Scientifique, Université Paul Sabatier-Toulouse 3, LEGOS, Universitat Autònoma de Barcelona, and sources from Germany, Japan, India, and other countries active in GEOTRACES research.

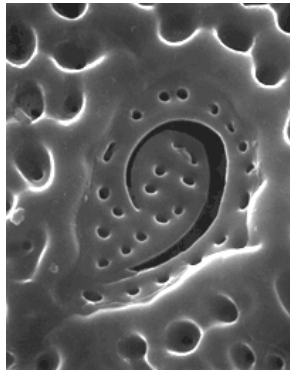


GEOTRACES officially launched the cruise phase of the project at the Ocean Sciences meeting in Portland, Oregon, USA on 24 February 2010. The lunchtime launch, attended by about 150 scientists, described the foundational accomplishments of GEOTRACES so far and cruise plans for the next few years. Several nations are planning cruises during this period, including Canada, France, Germany, India, Japan, Netherlands, Spain, the United Kingdom, and the United States. It is anticipated that the transect phase of GEOTRACES will last 10-15 years. A few proposals for GEOTRACES-related process studies have already been approved by the GEOTRACES SSC and the number of process studies is likely to increase over time, as interesting phenomena are discovered through the transect cruises. The Ocean Sciences meeting also featured several other sessions related to GEOTRACES, including sessions on GEOTRACES in the International Polar Year and GEOTRACES intercalibration and standardization exercises. Planning is underway for regional GEOTRACES meetings in Asia and the Mediterranean Sea.

**SCOR/IOC GEOHAB Program**—SCOR and IOC have approved a new chair (Raphael Kudela, USA) and vice-chair (Elisa Berdalet, Spain) of the Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB) SSC. Other new SSC members include Paul Bienfang

(USA), Michele Burford (Australia), Songhui Lu (China-Beijing), and Gires Usup (Malaysia).

GEOHAB will host an open science meeting on the topic of benthic HABs in Honolulu, Hawaii (USA) on 21-24 June 2010. The purpose of this meeting is to develop a research plan for a global comparative Core Research Project on the ecologic and oceanographic factors that control blooms of harmful benthic dinoflagellate species. The conference will summarize what we know about the



distribution and physiological ecology of these organisms, and will identify the additional research that is required to advance our understanding of the features and mechanisms underlying the population dynamics of ciguateric dinoflagellates in comparable regional ecosystems. GEOHAB will sponsor a training workshop in Honolulu following the OSM. SCOR is providing support (through a grant from the U.S. National Science Foundation) for participation of developing country scientists in the meeting.

**SCOR/IGBP/WCRP/CACGP SOLAS Project**—The SOLAS project has moved most of its IPO functions to the Leibniz-Institute für Meereswissenschaften (IFM-GEOMAR) in Kiel, Germany, the location of the current SSC chair, Doug Wallace. SCOR thanks IFM-GEOMAR for funding two positions in the IPO and for providing office space to continue the work of SOLAS. Two new SSC members were appointed for terms beginning in 2010: Yukihiro Nojiri (Japan) and Christoph Heinze (Norway).

**IMBER**—IMBER is preparing for its second open science meeting (Imbizo), to be held on the island of Crete, Greece on 10-14 October 2010 (see <http://imbizo-2010.confmanager.com/main.cfm?cid=1683>). The three themes of the Imbizo will be

- **Workshop 1:** The effect of varying element ratios on community structure at low trophic levels and food quality at mid and high trophic levels,
- **Workshop 2:** Large-scale regional comparisons of marine biogeochemistry and ecosystem processes - research approaches and results,
- **Workshop 3:** Sensitivity of marine food webs and biogeochemical cycles to enhanced stratification.

Eileen Hofmann (USA) assumed responsibility as the chair of the SSC at the beginning of 2010. Thanks to Julie Hall (New Zealand) for her guidance of the project for its first 6 years! Other individuals who joined the

SSC in 2010 are Alida Bundy (Canada), Claudio Campagna (Argentina), and Su Mei Liu (China-Beijing).

### SCOR/IODE Project on Data Publication

SCOR and the International Oceanographic Data and Information Exchange (IODE) of IOC held a one-day meeting to advance their joint activity on data publication (see *EOS* article cited below). The MBL/WHOI Library has joined in the activity. At the April 2 meeting, the partners planned the next phases of the activity, which will focus on separate activities of data centers and libraries, as well as new cooperation between these entities to create, archive, and serve data sets related to both traditional journal articles and unpublished data. The eventual goal is to make it possible for scientists to link data citations to traditional journal articles and list these citations on their CVs. The data publication process will have the additional advantage of making data more accessible for reuse by other scientists. The partners will make presentations this year to the library and data management communities.

### Publications

Mechanisms of Sediment Retention in Estuaries. Special issue of *Estuarine, Coastal and Shelf Science*, Volume 87(2):175-366 - Resulted from the work of SCOR/LOICZ/IAPSO WG 122 on Mechanisms of Sediment Retention in Estuaries

[Lowry, R., E. Urban, and P. Pissierssens. 2009. A new approach to data publication in ocean sciences. \*EOS: Transactions of the American Geophysical Union\* 90:484.](#)

[Orr, J.C., K. Caldeira, V. Fabry, J.-P. Gattuso, P. Haugan, P. Lehodey, S. Pantoja, H.-O. Pörtner, U. Riebesell, T. Trull, E. Urban, M. Hood, and W. Broadgate. 2009. Research Priorities for Understanding Ocean Acidification: Summary From the Second Symposium on the Ocean in a High-CO<sub>2</sub> World. \*Oceanography\* 22:182-189.](#)

### SCOR Annual Meetings

**2010**—The 2010 SCOR General Meeting will be held in Toulouse, France on 13-17 September. The French SCOR Committee will put on a one-day symposium to showcase French ocean science activities on 15 September. The meeting is open and we invite all interested individuals to see the meeting Web site (<http://www.scor-int.org/2010GM/2010GM.htm>) for additional information about the meeting.

**2011**—The Finnish SCOR Committee has invited SCOR to hold its 2011 Executive Committee meeting in Helsinki, Finland.

**2012**—The 2012 SCOR General Meeting will be held in Halifax, Nova Scotia, Canada.

**2013**—SCOR is seeking a Southern Hemisphere host for its 2013 Executive Committee meeting.

**2014**—SCOR has accepted an offer from the German SCOR Committee to hold its 2014 General Meeting in Bremen, Germany.

**For additional information about SCOR activities, please see the SCOR Web site: <http://www.scor-int.org>.**

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Acronyms:

CACGP	Commission on Atmospheric Chemistry and Global Pollution
FTI	Fast-Track Initiative
GEOHAB	Global Ecology and Oceanography of Harmful Algal Blooms Project
IAPSO	International Association for the Physical Sciences of the Ocean
IGBP	International Geosphere – Biosphere Programme
IOC	Intergovernmental Oceanographic Commission
IODE	International Oceanographic Data and Information Exchange (IOC/UNESCO)
IPO	International Project Office
LOICZ	Land-Ocean Interactions in the Coastal Zone project
LEGOS	Laboratoire d'Etudes en Géophysique et Océanographie Spatiales
MBL	Marine Biological Laboratory (Woods Hole, Massachusetts, USA)
OSM	open science meeting
SCOR	Scientific Committee on Oceanic Research
SOLAS	Surface Ocean – Lower Atmosphere Study
WCRP	World Climate Research Programme
WG	working group
WHOI	Woods Hole Oceanographic Institution

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Toulouse: from

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*Gambierdiscus toxicus*. Apical pore plate with characteristic fishhook shaped apical pore (from

<http://botany.si.edu/references/dinoflag/Taxa/Gtoxicus.htm>)