

1.0 OPENING

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1.1 Opening Remarks and Administrative Arrangements

Schulz, Burkill, Urban

1.1.1 Memorials for Scientists Involved With SCOR

Burkill

Three ocean scientists who were involved significantly in SCOR activities passed away since last year's SCOR meeting: Shirley Jeffrey (Australia), Daniel Lluch Belda (Mexico), and Toshiro Saino (Japan). We will observe a moment of silence to remember these colleagues

Shirley Jeffrey

Shirley Jeffrey passed away on 4 January 2014 at the age of 83, after a battle with cancer. She was the lead editor of the classic book *Phytoplankton Pigments in Oceanography*, produced by SCOR/UNESCO WG 78 in 1997 and stimulated the development of the complete revision of the book in 2011; *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography*.

From the Pacific Science Association

(<http://www.pacificscience.org/ShirleyJeffrey.htm>)

Shirley Jeffrey, 1930 - 2014

We are sad to report the death of Dr. Shirley Jeffrey, who **received** the **Shinkishi Hatai Medal** at the PSC-21 in Okinawa in 2007. Dr. Jeffrey was one of the world's great phytoplankton scientists and made very significant contributions to the science of the Pacific and to marine biology globally.

Shirley Jeffrey received a BSc from the University of Sydney in 1952 and an MSc in 1954. She attended King's College Hospital Medical School in London for her Ph.D on the effect of aspirin on carbohydrate metabolism. Upon returning to Sydney, she worked with Dr. George Humphrey at CSIRO Division of Fisheries and Oceanography, which marked the beginning of her lifelong career in marine science. From 1962 to 1964, Jeffrey was at the University of California, Berkeley as a Research Fellow. In 1965 she joined the maiden voyage of the *Alpha Helix*, the research vessel of the Scripps Institution of Oceanography, which visited Australia to study the ecology of the Great Barrier Reef. Jeffrey was a principal research scientist at CSIRO's marine biochemistry unit between 1971 and 1977. From 1977 to 1981 she was a Senior Principal Research Scientist at CSIRO Division of Fisheries and Oceanography, and later Acting Chief of CSIRO Division of Fisheries Research (1981-84). In 1991 she became a Chief Research Scientist. From 1978 to 1995, Jeffrey was in charge of developing CSIRO's Collection of Living Microalgae (also known as the Algal Culture Collection). In 1996 UNESCO published *Phytoplankton Pigments in Oceanography* which Jeffrey co-edited.

In addition to receiving the Shinkishi Hatai Medal from the Science Council of Japan in 2007, Dr. Jeffrey received numerous other honors, including her appointment as a member of the Order

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of Australia in 1992; the Gilbert Morgan Smith Medal from the U.S. National Academy of Science in 1993, and the Australian Centenary Medal in 2003.

Her work was characterized by a rigorous commitment to accuracy, both in the lab and in the written word, as well as a desire to write clearly in English for the benefit of scientists based in non-English speaking, lower-income countries.

Dr. Jeffrey passed away in early January 2014 at the age of 83. During her long illness, Dr. Jeffrey said that she hoped that people won't be sad when she goes, and that she was comforted by the thought of being with her late husband, Andy Heron, who died in 1988.

Daniel Lluch Belda

Daniel Lluch Belda co-chaired SCOR WG 98 on Worldwide Large-scale Fluctuations of Sardine and Anchovy Populations, which produced one of the most highly cited papers from a SCOR working group (cited 280 times according to *Web of Science*):

Schwartzlose R.A., J. Alheit, A. Bakun, T.R. Baumgartner, R. Cloete, R.J.M. Crawford, W.J. Fletcher, Y. Green-Ruiz, E. Hagen, T. Kawasaki, D. Lluch-Belda, S.E. Lluch-Cota, A.D. MacCall, Y. Matsuura, M.O. Nevarez-Martinez, R.H. Parrish, C. Roy, R. Serra, K.V. Shust, M.N. Ward, and J.Z. Zuzunaga. 1999. Worldwide large-scale fluctuations of sardine and anchovy populations. *South African Journal of Marine Science* 21:289-347.

Toshiro Saino

Dr. Toshiro Saino – Obituary (from <http://www.us-ocb.org/archives/email17aapr.html>)

Dear Members of the OCB Community,

It is with a great deal of sadness that we report the passing away of [Dr. Toshiro Saino](#) in Tokyo, Japan in the early morning of the 17th of April, 2014. Dr. Saino was the Director of the Environmental Biogeochemical Cycling Research, JAMSTEC, Tokyo, Japan, and was Japan's leading biogeochemist and ocean color scientist. He was one of the first members of the JGOFS Scientific Steering Committee when it was established in the 1990s and served as its executive member until the program ended in the mid-2000s. He was instrumental in starting the Japan-US workshops on Ocean Color (JUWOCS) of the 1990s and played a pioneering role in shaping Japan's Ocean Color and Ocean Biogeochemical Cycling Programs. His signature achievements among several, included the development of a stable isotope technique for measuring Nitrogen fixation in the sea by cyanobacteria and methods for measuring nitrate and new production from space. He had maintained cultures of *Trichodesmium* and other cyanobacteria early in his career. Dr. Saino was a great teacher and a visionary scientist who thrived on pushing boundaries

whether it came to developing new ideas, new methods and instrumentation especially when answers to complex biogeochemical questions were required. He served on the editorial board of several oceanography and earth science journals. Many of us who had the fortune of working and interacting with him knew him as a very hardworking scientist, a generous host and a fun loving person. These traits earned him the affectionate nickname “In-Saino”. He leaves behind his wife Fumiko Saino, a daughter, two sons and two grand-children.

Joaquim I. Goes, Helga Gomes and Hugh Ducklow
Lamont Doherty Earth Observatory at Columbia University
Palisades, New York, 10964

1.2 Approval of the Agenda (see Tab 0)

Burkill

The agenda can be rearranged at the meeting to accommodate the schedules of presenters and to add items to it.

1.3 Report of the SCOR President

Burkill

The SCOR President will present a report at the meeting that describes his activities on behalf of SCOR since the 2013 SCOR Executive Committee Meeting in Wellington.

1.4 Report of SCOR Executive Director

Urban

This has been another busy year for the SCOR Secretariat. SCOR-supported groups continue their good work.

Finances—SCOR’s finances remain healthy, although some countries have had trouble paying their dues this year. Despite this fact, it is likely that income will nearly cover expenses, since some working groups underspent their budgets by meeting in conjunction with the Ocean Sciences meeting and some meetings have been postponed. Income from dues is important for funding the central administration of SCOR, namely the costs of the Secretariat and the annual SCOR meetings. Dues also fund some costs of working groups and other SCOR activities that are not funded from grants. SCOR depends on grant funding for large-scale research projects, ocean carbon activities, and some working groups.

National Members—The number of countries involved in SCOR has remained stable this year. I was able to meet with the French and U.S. SCOR Committees this year. There was some rotation of Nominated Members and the Ecuadorian SCOR Committee has become re-activated.

Publications and Outreach—The SCOR Web site is the major vehicle for providing up-to-date information about SCOR to the international ocean science community and I make changes to

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the site several times each week, as I receive new information. The site is checked for “dead links” monthly.

SCOR activities yielded many publications in the primary literature and other venues this year, as noted in Tab 8. Because SCOR’s reputation is significantly affected by the quality of documents resulting from SCOR activities, I spend a significant amount of my time writing, reviewing and/or editing publications.

An important new outreach activity in the past year was the SCOR booth at the Ocean Sciences meeting. This was the first time we have had a booth and it gave us an opportunity to give some visibility to SCOR, the GEOTRACES project, the Surface Ocean – Lower Atmosphere Study (SOLAS), the Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) project, and the Southern Ocean Observing System (SOOS). SCOR paid to have each of the five posters formatted by a professional graphic artist and for printing a roll-up banner. The booth provided an opportunity for these projects to distribute information and to meet with people who dropped by.



The GEOTRACES project paid the extra cost to have a video display of the Intermediate Data Product that the project released at the Ocean Sciences meeting. We will plan to have a booth again at the 2016 Ocean Sciences meeting in New Orleans, Louisiana, USA.

Meetings—Between the 2013 and 2014 SCOR annual meetings, seven SCOR working groups met (WGs 135, 138, 139, 140, 142, 143, and 144). The Scientific Steering Committees of GEOHAB, IMBER, SOLAS, and SOOS also met.

Outreach to Scientists from Developing Nations and Capacity-Building Activities—SCOR continues to invest funding and effort in expanding our capacity-building activities. In addition to the continuation of the travel grant program, SCOR appoints up to three SCOR Visiting Scholars each year. The first of four annual Research Camps was held at the University of Namibia (UNAM) campus in Henties Bay this year. This concept grew out of Kurt Hanselmann’s two visits to UNAM as a SCOR Visiting Scholar and a subsequent grant from the Agouron Institute to SCOR for this activity. We also were able to meet a request from the University of Dhaka (Bangladesh) to send a SCOR Visiting Scholar to teach for two one-month periods in 2014. Dr. Prasanna Kumar from the National Institute of Oceanography (India) has agreed to take on this assignment.

Venu Ittekkot (chair of the SCOR Committee on Capacity Building) and I will be visiting the National Research Council, Mauritius Institute of Oceanography, the University of Mauritius, and institutions in Durban, South Africa at the beginning of October to discuss how SCOR capacity building activities might be implemented in these places. We will also discuss the participation of institutions in Mauritius and Durban in the Second International Indian Ocean Expedition (IIOE-2).

Service to International Ocean Research Projects—SCOR helps SCOR-sponsored research projects in many different ways, including providing funds from the U.S. National Science Foundation, the U.S. National Aeronautics and Space Administration, and other sources, providing travel support for developing country scientists and scientists from countries with economies in transition to special events of the projects, providing IPO-type support until an IPO can be funded, providing access to the Conference Manager software for management of open science meetings, and leasing the GoToMeeting audio conferencing system for the projects.

Support of Project Offices—SCOR currently provides partial support for three project offices, as subawards to one of SCOR’s grants from NSF:

- **International Ocean Carbon Coordination Project (IOCCP)**—This office is located in Sopot, Poland, at the Institute of Oceanology of the Polish Academy of Sciences. SCOR pays the salary and benefits for the project director, Dr. Maciej Telszewski. IOC helps support the cost of the office and provides activity funding for IOCCP, and the host institution provides in-kind support.
- **GEOTRACES Data Assembly Centre**—This office is located at the British Oceanographic Data Centre. SCOR pays for some salary support and other expenses related to the office, for Dr. Edward Mawji, the GEOTRACES data manager. The office receives occasional support from other countries whose scientists are involved in GEOTRACES.

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- **GEOTRACES International Project Office**—This office is located in Toulouse, France at the Laboratoire d'Etudes en Géophysique et Océanographie Spatiales, SCOR support pays for about half of the office cost, including some salary support for the GEOTRACES Executive Officer, Ms. Elena Masferrer-Dodas. SCOR funds are supplemented by funds from other countries whose scientists are involved in GEOTRACES.

Partnerships With Other Organizations—Maintaining existing partnerships and developing new ones depends on SCOR having the ability to commit funding to joint activities and to send representatives to partners' meetings. We have strong partnerships with IGBP, IOC, PICES, POGO, and SCAR. We are developing a working relationship with the Future Earth initiative, particularly in relation to the SOLAS and IMBER projects. This year, Wolfgang Fennel and I represented SCOR at the IOC General Assembly in June.

Staffing—Currently, I am working full-time for SCOR and Elizabeth Gross is working about one-quarter time to handle many financial duties.

SCOR Secretariat—The SCOR Secretariat moved to a different office at the University of Delaware campus early this year. The new office is located in Robinson Hall, which is the home of the College of Earth, Ocean and Environment on the university's Newark campus. The move will make it possible for SCOR staff to interact more regularly with college faculty and staff.

I continue to manage all SCOR Secretariat activities and oversee the finances of SCOR activities, pursue new funding for SCOR activities, represent SCOR at various meetings, help edit various publication, and work on the SCOR Web site and Newsletter. I have been spending time this year helping with the response to review for the International Quiet Ocean Experiment Science Plan and staffing the committee that is drafting the Research Plan for the IIOE-2.

1.5 Appointment of an *ad hoc* Finance Committee

Burkill

The Executive Committee has appointed the 2014 Ad Hoc SCOR Finance Committee before the meeting, so the committee members can receive and review SCOR financial information in advance. Participation on the Finance Committee is limited to Nominated Members who are attending the meeting, but who are not members of the SCOR Executive Committee. This ensures that a group independent from the Executive Committee and SCOR Secretariat staff can make recommendations to the Executive Committee about SCOR finances. The members of this year's Finance Committee are Colin Devey (Germany), Karen Heywood (UK), Motoyoshi Ikeda (Japan), and Paul Myers (Canada).

1.6 2014 Elections for SCOR Officers

Fennel

The election process for new SCOR officers took place between the 2013 Executive Committee meeting and the 2014 General Meeting. The results of the election will be announced.