

## 1.0 OPENING

- |     |                                                                                                                                                                           |                     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1.1 | <b>Opening Remarks and Administrative Arrangements</b>                                                                                                                    | <i>Purini, Duce</i> |
| 1.2 | <b>Approval of the Agenda</b> —Additions or modifications to the agenda may be suggested prior to approval of the final version, <b>p. 1-1</b>                            | <i>Duce</i>         |
| 1.3 | <b>Report of the SCOR President</b> —The President will briefly review activities since the 37 <sup>th</sup> Executive Committee Meeting in September 2003<br><i>Duce</i> |                     |
| 1.4 | <b>Report of SCOR Executive Director</b><br><i>2004 SCOR Executive Director's Report, p. 1-18</i>                                                                         | <i>Urban</i>        |
| 1.5 | <b>Appointment of an <i>ad hoc</i> Finance Committee, p. 1-20</b>                                                                                                         | <i>Duce</i>         |
| 1.6 | <b>Committee to Review the Disciplinary Balance of SCOR's Activities, p. 1-20</b>                                                                                         | <i>Field</i>        |



**1.1 Opening Remarks and Administrative Arrangements****1.2 Approval of the Agenda (see the following)**

**27<sup>th</sup> SCOR GENERAL MEETING**  
Italian National Research Council  
Venice, Italy

27-30 September 2004

**ANNOTATED AGENDA**

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**1.0 OPENING**

**1.1 Opening Remarks and Administrative Arrangements** *Purini, Duce***1.2 Approval of the Agenda** *Duce*

Additions or modifications to the agenda as distributed may be suggested prior to approval of the final version.

**1.3 Report of the President of SCOR** *Duce*

The President will briefly review activities since the 36<sup>th</sup> Executive Committee Meeting in September 2003.

**1.4 Report of SCOR Executive Director** *Urban***1.5 Appointment of an *ad hoc* Finance Committee** *Urban*

The SCOR Constitution requires that a Finance Committee be appointed at every SCOR meeting. It must consist of three members of SCOR who are not members of the Executive Committee. The Finance Committee reviews the administration of SCOR finances during the previous fiscal year and the current year and will propose a budget for 2004 activities. The Committee will report to the meeting under agenda item **8.4**. The SCOR Executive Committee approved Birger Larsen (Denmark) to chair the ad hoc Finance Committee. Two other members will be appointed before the meeting.

# 1-2

## **1.6 *Ad hoc* Committee to Review the Disciplinary Balance of SCOR's Activities** *Duce*

The Executive Committee meeting in 1999 agreed that at future SCOR meetings, after the consideration of working group proposals is complete, the current disciplinary balance of SCOR groups should be assessed. Scientific gaps should be identified and communicated to national committees when the next request for working group proposals is sent. The 2002 General Meeting decided to retain the same members (Laurent Labeyrie, John Field, and Roberto Purini).

**Action:** See agenda item 8.5.

## **2.0 WORKING GROUPS**

### **2.1 Disbanded Working Groups**

#### **2.1.1 WG 93—Pelagic Biogeography**

*Pierrot-Bults*

Annelies Pierrot-Bults reported at the 2002 General Meeting that the English version of biogeography terms was ready to publish, and Spanish terms were to be published soon. Meeting participants suggested that the initial documents could be posted on the SCOR Web site while the other translations are being sought. The document is now available on the SCOR Web site (<http://www.jhu.edu/scor/Biogeography.doc>). It includes English definitions, with Spanish translations of the terms and a Spanish cross-reference list of terms.

**Actions:** Translate terms into other languages?

#### **2.1.2 WG 107—Improved Global Bathymetry**

*Labeyrie*

The group's report was published in the *IOC Manuals and Guides* series in 2002, soon after the SCOR General Meeting and the group was disbanded. The Executive Committee requested that the WG chair produce (or commission) a summary of the report for publication as an *EOS* article. A follow-up letter to agencies holding bathymetric data was to be prepared and other actions were considered at the Moscow meeting. The Executive Committee will discuss this issue in Venice.

**Actions:** Should the letter be modified and an *EOS* article be written?

#### **2.1.3 WG 112—Magnitude of Submarine Groundwater Discharge and its Influence on Coastal Oceanographic Processes**

*Duce*

The product of this working group included a special issue of the journal *Biogeochemistry* (published in 2003) and a chapter in the synthesis book for the Land-Ocean Interactions in the Coastal Zone (LOICZ) project (still in progress). The group was disbanded and thanked for their service.

**Action:** None

**2.1.3 WG 113—Evolution of the Asian Monsoon in Marine Records:****Comparison between Indian and East Asian Subsystems***Labeyrie*

*Marine Geology* published a special volume of the papers contributed to the working group's second workshop in 2003. A review paper is being prepared based on the results of the first and third workshops, to be published in *Quaternary Science Reviews*. (The paper is in review now.) The group was thanked for their service and disbanded.

**Action: None****2.1.4 WG 118—New Technologies for Observing Marine Life***Pierrot-Bults*

The Web site for the group was re-designed (see <http://www.coml.org/scor/scor.htm>) as a resource for the new panel and the product of the working group (see item 4.3.5). The group was disbanded and thanked for their service.

**Action: None****2.2 Current Working Groups**

The Executive Committee Reporter for each working group will present an update on working group activities and progress, and will make recommendations on actions to be taken. (In some cases, the working group chair will also present comments.) The Executive Committee should make preliminary decisions, based on the progress of working groups and the merits of the requests, about whether funding should be provided for 2005 activities of working groups that request funds. The Finance Committee will take into account the recommendations of the Executive Committee as it develops the 2005 SCOR budget, which is then subject to final approval by the Executive Committee.

**2.2.1 WG 109—Biogeochemistry of Iron in Seawater***Duce*

The group produced a book in 2001. A subgroup on iron standards was set up at the Amsterdam General Meeting (1998) and met at the 2000 Ocean Sciences Meeting in San Antonio, Texas; an intercalibration of standards was underway at the time of the 2000 SCOR General Meeting. The subgroup met in late 2002 to discuss the results of the intercomparison. The results of this intercomparison resulted in a grant from NSF for a larger intercomparison cruise. No additional written product is expected from the group.

**Action: Consider disbanding the working group.****2.2.2 WG 111—Coupling Winds, Waves and Currents in Coastal Models***Wainer*

The group is developing a book tentatively entitled *Coupled Coastal Wind-Wave-Current Dynamics*, which will be published by Cambridge University Press in mid-2005. Peter Craig (Australia) is leading the editorial work for the book. The group's activities are funded by the

U.S. Minerals Management Service and National Aeronautics and Space Administration.

**Action: None**

**2.2.3 WG 114—Transport and Reaction in Permeable Marine Sediments** *Labeyrie*

The 2003 Executive Committee meeting gave permission for the group to remain dormant until 2006, so that they can serve as an organizing committee for the next Gordon Research Conference on this topic. They were also requested to produce a volume of seminal papers in the field, accompanied by a significant synthesis paper. Although the working group suggested this idea, they have lost interest in it.

**Action: Decide whether to disband the group or allow them to remain dormant without producing a written product.**

**2.2.4 WG 115—Standards for the Survey and Analysis of Plankton** *Pierrot-Bults*

The working group met for the second time in Concepción, Chile in November 2003. Song Sun (China-Beijing) was added as a Full Member of the working group, and Erika Head (Canada) and Juha Flinkman (Finland) were added as Associate Members of the WG in 2003. The group plans to meet for its third and final time in early 2005.

**Actions: Decide whether to approve request for funding for 2005 meeting.**

**2.2.5 WG 116—Sediment Traps and <sup>234</sup>Th Methods for Carbon Export Flux Determination** *Labeyrie*

The group met in Nov. 2003 to construct the outline for a book on their topic and will hold a meeting in 2004 to coincide with a larger meeting on this topic in the United States. (Some of the costs of the WG meeting will be paid as part of the larger meeting.) The group has requested funding for a final meeting in 2005.

**Action: Decide whether to approve request for funding for 2005 meeting.**

**2.2.6 WG 119—Quantitative Ecosystems Indicators for Fisheries Management** *Field*

The working group convened a large symposium at UNESCO in Paris on March 31-April 3, 2004. The symposium was funded by IOC, the U.S. National Marine Fisheries Service, FAO, PICES, several French agencies, and GLOBEC. PICES handled the registration process for the meeting. A special issue of the *ICES Journal of Marine Science* will be produced from the symposium.

**Action: Consider follow-up activities.**

**2.2.7 WG 120—Marine Phytoplankton and Global Climate Regulation:  
The *Phaeocystis* Species Cluster As Model** *Hall*

The working group's second meeting was held in Savannah, Georgia, USA in December 2003. The group would like to convene a Gordon Conference-type meeting in 2005 to gather information for their final product, which would be a proceedings book (see outline on p. 2-35). Ed Urban has advised the chairman to seek a publisher that will publish that book at a reasonable

selling price, and that SCOR does not provide support for publication costs.

**Action: Decide whether to approve request for funding for 2005 meeting.**

### **2.2.8 WG 121—Ocean Mixing**

*Purini*

SCOR and IAPSO co-submitted proposals to NSF and the U.S. Office of Naval Research and received \$40,000 from these two sources for the group's symposium scheduled for October 2004 in Victoria, B.C., Canada. Waldemar Walczowski (Poland) and Fangli Qiao (China-Beijing) were added as Associate Members, at the request of their national SCOR committees.

**Action: None**

### **2.2.9 WG 122—Estuarine Sediment Dynamics**

*Labeyrie*

The group will hold its first meeting in Faro, Portugal in September 2004. The group would like to hold its second meeting in September 2005 in Bahia Blanca, Argentina. Marek Zajaczkowski (Poland) was added as an Associate Member in 2004.

**Action: Decide whether to approve request for funding for 2005 meeting.**

### **2.2.10 WG 123—Reconstruction of Past Ocean Circulation (PACE)**

*Wainer*

Several group members held an opportunistic meeting in conjunction with the EGU meeting in April 2004. They are proposing to hold a conference on their topic in Atlanta, Georgia, USA in March 2005, bringing together physical oceanographers and paleoceanographers.

**Action: Decide whether to approve request for funding for 2005 meeting.**

### **2.2.11 WG 124— Analyzing the Links Between Present Oceanic Processes and Paleo-records (LINKS)**

*Sicre, Wainer*

The group will hold a planning meeting in conjunction with the 8<sup>th</sup> International Conference on Paleoceanography in September 2004 in Biarritz, France.

**Action: Decide whether to approve request for funding for 2005 meeting.**

## **2.3 New Working Group Proposals**

Three working group proposals were received by the SCOR Secretariat. SCOR can fund two new working groups to begin in 2005.

### **2.3.1 Working Group on Global Comparisons of Zooplankton Time Series**

*Pierrot-Bults*

**Action: Determine whether to approve as new SCOR working group.**

### **2.3.2 Working Group to Investigate the Role of Viruses in Marine Ecosystems**

*Hall*

**Action: Determine whether to approve as new SCOR working group.**

- 2.2.3 Working Group on the Presence and Abundance of *Benthosema pterotum* Myctophid Fish in the Northern Arabian Sea** *Taniguchi*  
**Action: Determine whether to approve as new SCOR working group.**

### 3.0 LARGE-SCALE SCIENTIFIC PROGRAMS

#### **SCOR/IGBP Joint Global Ocean Flux Study (JGOFS)**

The JGOFS Executive Committee met for the final time in September 2003 to finish its business. Project files were shipped to the Woods Hole Oceanographic Institution Library for archiving. JGOFS decided to try to write an article on the history of JGOFS. The JGOFS IPO closed on 31 December 2003 and distributed the final version of its Web site on CDs. It is also still on-line at the University of Bergen.

#### **3.1 SCOR/IGBP/IOC Global Ocean Ecosystems Dynamics (GLOBEC) Project**

*Barange, Taniguchi*

GLOBEC held its 2004 SSC meeting in Swakopmund, Namibia, to make it possible to meet in conjunction with the annual meeting of BENEFIT, one of GLOBEC's regional contributing activities (from South Africa, Namibia, and Angola). The GLOBEC SSC continued planning its synthesis activities and planning for joint activities with IMBER, and reviewed draft science plans for two new regional activities, one in the sub-arctic seas and the other for high-trophic level fish in tropical regions. GLOBEC and IMBER have agreed to work together on studies related to end-to-end food webs.

**Action: Approve new SSC members?**

#### **3.2 SCOR/IOC Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB) Program**

*Pitcher, Hall*

GEOHAB's *Implementation Plan* was approved after the 2003 Executive Committee meeting. GEOHAB has embarked on a series of focused open science meetings to create research plans for its four Core Research Projects. Two have been held so far: (1) HABs in Upwelling Systems (in Lisbon, Portugal) and (2) HABs in Fjords and Coastal Embayments (in Viña del Mar, Chile). The plan from the Upwelling meeting will be published by IOC before the SCOR meeting, and the plan for the Fjords and Coastal Embayments meeting is in progress. The final two open science meetings will be held on HABs in Eutrophied Systems (March 2005 in Baltimore, Maryland, USA) and HABs in Stratified Systems (in mid-2005). The Executive Committee approved the addition of several SSC members during the year and appointment of Marcel Babin (France) as the SSC's Vice-Chair. (New SSC members will be announced at the meeting.) The next SSC meeting will be held in Cape Town, South Africa in conjunction with the biennial international HAB meeting in November 2004. **Action: None**



### 3.3 SCOR/IGBP/WCRP/CACGP Surface Ocean-Lower Atmosphere Study

*Ryan, Labeyrie*

The SOLAS International Project Office has been established in the United Kingdom and SOLAS is seeking support for its focus activities. SOLAS will hold its first open science meeting as an official project in Halifax, Nova Scotia, Canada in October 2004. SCOR is contributing US\$15,000 NSF funding for the conference, plus an additional \$7,500 for the participation of developing country scientists in the meeting. SOLAS and IMBER have agreed to create a cooperative research activity related to ocean carbon.

**Action: Approve new SSC members?**

### 3.4 SCOR/IGBP Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) Project

*Hall, Field*

The IMBER *Science Plan and Implementation Strategy* was reviewed by SCOR and IGBP and approved, in principle, by both co-sponsors, in 2004. SCOR and IGBP also approved the IMBER SSC membership in 2004. The IMBER SSC met on 9-12 August 2004 in Plymouth, UK to discuss how to revise the *Science Plan and Implementation Strategy* to respond to reviewers' comments and to begin planning implementation activities.

**Action: None**

### 3.5 GEOTRACES Planning Committee

*Duce*

The GEOTRACES Planning Committee met for the first time in Oxford, UK in June 2004, to begin creating their science plan. Four national GEOTRACES communities (in France, Germany, the United Kingdom, and the United States) held scientific meetings to specify their particular interests in GEOTRACES, which will contribute to the international GEOTRACES science plan. New funding has been secured from NSF for GEOTRACES to continue its planning. These funds will be used for an editorial meeting and meetings of subcommittees for data management, and for standards and intercomparison experiments.

**Action: None**

### 3.6 Land Interactions in the Coastal Zone (LOICZ) Project

*Hall*

The 2002 SCOR General Meeting agreed to co-sponsor the elements of LOICZ related to coastal ocean science, pending development of financial support for LOICZ. SCOR has not yet been able to develop funds to assist LOICZ.

**Actions: Discuss potential cooperative joint activities and funding sources.**

## 4.0 OCEAN CARBON AND OTHER ACTIVITIES

### 4.1 SCOR/IOC Advisory Panel on Ocean Carbon Dioxide

*Urban*

The terms of panel members expired at the end of 2003. Much discussion has taken place in the past year on how to reform the Panel, its new terms of reference, and how it would relate to (1) the International Ocean Carbon Coordination Project (IOCCP), which it co-sponsored and which has continued its activities, and to (2) SOLAS and IMBER. New panel terms of reference and membership may be considered at the SCOR meeting. The IOCCP held a conference on “Ocean Surface pCO<sub>2</sub>, Data Integration and Database Development” in Tsukuba, Japan in January 2004, in cooperation with PICES.

**Action: Consider approval of structure for ocean carbon activities.**

### 4.2 SCOR-IOC International Symposium on “The Ocean in a High-CO<sub>2</sub> World”

*Duce*

James Orr (France) was appointed as Vice-Chair of the Planning Committee in 2004. The symposium was held at UNESCO in Paris, France in May 2004. It was mentioned in an article in the *New York Times* weekly Science section, as well as in other printed and on-line newspapers. Papers from the symposium will be published in a special issue of the *Journal of Geophysical Research—Oceans*. These papers will be produced in time to contribute to the IPCC Special Report on Carbon Dioxide Capture and Storage. In addition, a summary of research priorities from the discussion sessions was prepared and distributed to research agencies worldwide. A meeting summary was published in EOS. The new Panel that will replace the SCOR/IOC Advisory Panel on Ocean CO<sub>2</sub> will be responsible for continuing follow-up activities related to ocean carbon sequestration science.

**Action: Disband Symposium Committee after the special issue is published?**

### 4.3 Other Activities

#### 4.3.1 Basin-Scale Modelling

*Urban*

SCOR and IOC co-sponsored an activity in 2003 to bring together experts to examine how existing models can be scaled up to basin scales, requested by IOC. The activity resulted in an article in *Science* (see plastic folder following p. 4-20). Scientists from GLOBEC, JGOFS, IMBER, and PICES were involved.

**Action: None**

#### 4.3.2 The Global Iron Cycle

*Duce*

SCOR was a supporting applicant for a proposal from IGBP to ICSU for an IGBP “fast-track” activity on the global iron cycle, which brought together experts on oceanic, atmospheric, and terrestrial aspects of the global iron cycle to document our current state of knowledge about the

iron cycle. The activity will result in one synthesis paper for *Science* or *Nature* and several other more-focused papers in *Global Biogeochemical Cycles*.

**Action: None**

#### 4.3.3 Data Management

*Urban*

SCOR obtained funding from NSF to convene a meeting (with help from IGBP) to bring together project scientists and data managers to recommend to projects what should form the key elements of their data policies. The meeting was chaired by Roy Lowry of the British Oceanographic Data Centre. SCOR convened this meeting because of the need of SOLAS, IMBER, and GEOHAB for such a policy. The policy was distributed to all the projects that participated in the meeting. All of the above projects, plus GEOTRACES, have considered the recommendations at their meetings.

**Action: Consider recommendations for SCOR action.**

#### 4.3.4 Project Coordination Meeting

*Field, Labeyrie*

SCOR obtained funding from the Alfred P. Sloan Foundation to convene a meeting of representatives of the major large-scale ocean research projects, both SCOR-sponsored and others. The meeting will occur in Venice during the week before the 2004 General Meeting and will be co-chaired by John Field and Laurent Labeyrie. The purpose of the meeting is to bring together representatives of the major international ocean research and observation projects and programs to discuss common opportunities, issues and problems. The topics for discussion will be an update on results from the data coordination meeting, a discussion of project-GOOS cooperation, a discussion of project collaboration on Southern Ocean research, project needs for time-series stations, project input to global assessments, and other topics of interest to the participants (see agenda on p. 4-32).

**Action: Consider recommendations for SCOR action.**

#### 4.3.5 Panel on New Technologies for Observing Marine Life

*Pierrot-Bults*

The 2003 Executive Committee meeting approved the transformation of WG 118 on New Technologies for Observing Marine Life to a panel of the same name. Elgar de Sa (India) was approved as the Panel chair and terms of reference were approved for the Panel. The Sloan Foundation approved a three-year grant (\$140,000) for the Panel's activities. The panel membership is now under development. The first meeting of the panel will be held in Goa, India in late 2004.

**Action:**

## 5.0 CAPACITY-BUILDING ACTIVITIES

### 5.1 Regional Graduate Schools of Oceanography and Marine Environmental Sciences

*Field, Wainer*

The Executive Committee formed a small committee at the 2002 General Meeting to determine how to proceed with this activity, co-chaired by John Field and Ilana Wainer, and also including Huasheng Hong (China-Beijing) and Manuwadi Hungspreugs (Thailand). SCOR submitted a proposal to ICSU to further develop the idea in the target regions, supported by the Third World Academy of Sciences and IUGG. The proposal was not funded by ICSU (see p. 5-1), so other, regional funding sources will be approached.

**Action: Discuss how to proceed.**

### 5.2 POGO-IOC-SCOR Visiting Fellowships for Oceanographic Observations

*Urban*

Four sets of fellowships have been awarded (13 each in 2001 and 2002, 8 in 2003, and 12 in 2004). Fellows, host institutions, and sending institutions are generally enthusiastic around the program (see p. 5-8). IOC is considering withdrawing funding from the program, due to a changed strategy for funding of its capacity-building activities.

**Action: Consider whether to provide funding in 2005.**

### 5.3 NSF Travel Support for Developing Country Scientists

*Urban*

SCOR is in the third year of a three-year grant from the U.S. National Science Foundation (NSF) for these awards, at a level of \$75,000 per year. The grants have been an important source of support for several SCOR-related meetings in the past year, including (1) GLOBEC SPACC Meetings (egg production and economics) and Zooplankton Symposium, (2) WG 119 Symposium on Quantitative Ecosystem Indicators for Fisheries Management, (3) POGO-IOC-SCOR Fellowships, (4) SOLAS, GEOHAB, and CLIVAR Open Science Meetings, (5) the Symposium on The Ocean in a High-CO<sub>2</sub> World, (6) SCOR-relevant workshops at the PICES annual meeting, (7) the History of Oceanography meeting, and (8) the IGBP/SCOR workshop on the global iron cycle.

**Action: Consider new requests.**

### 5.4 SCOR Reports to Developing Country Libraries

*Urban*

The SCOR Secretariat distributed three reports to developing country libraries since the 2003 SCOR meeting (see p. 5-20).

**Action: None**

### 5.5 Third World Academy of Sciences

*Schaeffer*

The Third World Academy of Sciences (TWAS) represents developing nations that do not have their own science academies. SCOR has interacted with TWAS intermittently in the past.

**Action: Discuss how SCOR and TWAS can work together.**

## 5.6 ICSU Priority Area Assessment on Capacity Building *Urban*

SCOR nominated four individuals to the ICSU PAA committee, but none were selected.

**Action: Determine how SCOR can continue to contribute to the ICSU process.**

## 6.0 RELATIONS WITH INTERGOVERNMENTAL ORGANIZATIONS

### 6.1 Intergovernmental Oceanographic Commission *Duce, Urban*

Robert Duce and Ed Urban attended the IOC Executive Council in June 2004 to represent SCOR and made interventions related to GESAMP, the proposed SCAR-SCOR-IOC Southern Ocean research coordination activity, and follow-up for the WG 119 symposium.

**Action: None**

#### 6.1.1 Coastal Ocean Advanced Science and Technology Studies (COASTS)

##### Meeting

*Unluata*

The COASTS meeting was held in 2001 and two volumes of *The Sea* are being prepared.

**Action: Should SCOR purchase copies?**

#### 6.1.2 Global Ocean Observing System (GOOS)

*Harrison, Malone*

Plans for the coastal ocean climate elements of the Global Ocean Observing Systems continue to develop. SCOR has input to GOOS through ICSU. John Field is the new chair of the GOOS Steering Committee.

**Action:**

### 6.2 Other Intergovernmental Organizations

#### 6.2.1 Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP)

*Duce*

**Action:**

#### 6.2.2 North Pacific Marine Science Organization (PICES)

*Bychkov*

SCOR and PICES have cooperated in several activities in the past year, as described in the PICES report.

**Action: Consider requests for developing country scientist travel support.**

## 7.0 RELATIONS WITH NON-GOVERNMENTAL ORGANIZATIONS

### 7.1 International Council for Science

*Duce*

SCOR was the lead applicant on one grant proposal to ICSU for 2005, for the Regional Graduate Schools of Oceanography project. The Third World Academy of Sciences and IUGG were supporting sponsors. SCOR served as a supporting sponsor on two other grant proposals, one for Physics and Chemistry as the Key to Marine Ecosystem Dynamics and Structure (PACKMEDS) project (led by SCOPE, with IAPSO) and the other for an activity to bring the marine natural science and social sciences communities together to discuss joint research possibilities (led by IGBP, with IHDP). None of the proposals received funds from ICSU.

ICSU published its Priority Area Assessment (PAA) on the Environment in Relation to Sustainable Development in February 2003 (see **p. 7-1**), which was very favourable to SCOR.

Michael McCracken is a member of the Advisory Committee for the ICSU Workshop on Comet/Asteroid Impacts and Human Society. The workshop will be held in November/December 2004 in Santa Cruz de Tenerife, Canary Islands (see **p. 7-7**).

**Action: None**

### 7.1.1 International Geosphere-Biosphere Program (IGBP)

*Brasseur*

Ed Urban attended the IGBP Science Committee meeting in Moscow, Russia in February 2003 to represent SCOR. Julie Hall also attended at IGBP's expense as the IMBER Transition Team chair. SCOR and IGBP staff members have ongoing discussions in relation to co-sponsored projects. IGBP and SCOR have worked since early 2003 on an "Ocean Vision" for the ocean projects that are part of IGBP (see **article from IGBP Newsletter at the end of Tab 3**).

**Action: Determine which SCOR decisions need to be transmitted to IGBP for comment and joint action.**

### 7.1.2 World Climate Research Programme (WCRP)

*Urban*

WCRP is co-sponsoring the SOLAS project and SCOR projects are working well with CLIVAR, the part of WCRP most relevant to SCOR. Ed Urban attended parts of the WCRP meeting in Moscow in Feb. 2004. SCOR provided funds for the CLIVAR Open Science Meeting in Baltimore for travel of developing country scientists and is providing funds to the CLIVAR IPO to help revise the WOCE hydrographic manual in terms of carbon measurements.

**Action:**

### 7.1.3 Scientific Committee on Antarctic Research (SCAR)

*Summerhayes, Hall*

SCAR has proposed SCOR involvement to work cooperatively in Southern Ocean research coordination and are discussing a variety of other cooperative activities (see **p. 7-50**). For example, the two organizations will co-sponsor a special session at the IAPSO.IABO meeting in

Cairns, Australia, on the topic of integrated biological and physical oceanography in the Southern Ocean.

**Actions: (1) Determine whether to participate in proposed SCAR-SCOR activity. (2) Discuss potential SCOR activities in relation to the International Polar Year.**

#### **7.1.4 Scientific Committee on Problems of the Environment (SCOPE) *Pierrot-Bults***

SCOR was a supporting applicant to a SCOPE proposal to ICSU for an activity called Physics and Chemistry as the Key to Marine Ecosystem Dynamics and Structure (PACKMEDS). IAPSO was also a supporting applicant. SCOPE is planning to attempt to conduct the project even though support has not been received from ICSU.

**Action: Determine how SCOR should be involved in supporting the PACKMEDS activity.**

## **7.2 Affiliated Organizations**

### **7.2.1 International Association for Biological Oceanography (IABO) *Pierrot-Bults***

SCOR will meet in 2005 in conjunction with the IAPSO/IABO assembly in Cairns, Australia.

**Action: Discuss potential areas of interaction with IABO.**

### **7.2.2 International Association for Meteorology and Atmospheric Sciences (IAMAS)**

*MacCracken*

**Action: Discuss potential areas of interaction with IAMAS.**

### **7.2.3 International Association for the Physical Sciences of the Oceans (IAPSO) *Rizzoli***

SCOR will meet in 2005 in conjunction with the IAPSO/IABO assembly in Cairns, Australia. SCOR and IAPSO have jointly submitted proposals to the U.S. Office of Naval Research and the U.S. National Science Foundation for the WG 121 conference, which were approved. IAPSO is a partner with SCOR and LOICZ on WG 122. SCOR is also participating with IAPSO in its International Workshop On Forecasting And Data Assimilation In The Benguela And Comparable Systems, to be held in Cape Town, South Africa in November 2004 (see p. 7-57).

**Action: Discuss potential areas of interaction with IAPSO.**

## **7.3 Affiliated Programs**

The benefit of continued affiliation to SCOR is evaluated at each General Meeting. Reports are provided at Executive Committee meetings for information only. All of these programs were invited to send representatives to the project coordination meeting sponsored by SCOR.

**Action: Determine process for evaluating whether to extend the 10-year sunset period for affiliated programs beyond 2005.**

# 1-14

## **7.3.1 Census of Marine Life (CoML)**

*Taniguchi*

SCOR's new panel on New Measurement Technologies for Observing Marine Life will be a scientific advisor to the CoML projects.

**Action: None**

## **7.3.2 International Antarctic Zone (iAnZone) Program**

*Purini*

The next biennial iAnZone meeting will be held in Venice in October 2005.

**Action: Consider request for travel support for developing country scientists.**

## **7.3.3 International Marine Global Changes Study (IMAGES)**

*Purini*

**Action: None**

## **7.3.4 InterRidge - International, Interdisciplinary Ridge Studies**

*Labeyrie*

SCOR provided support for travel of a developing country scientist to an InterRidge meeting in 2004.

**Action: None**

## **7.3.5 International Ocean Colour Coordinating Group (IOCCG)**

*Stuart, Field*

Venetia Stuart, from the IOCCG Secretariat, will make a presentation about IOCCG's activities and plans.

**Action: None**

## **7.4 Other Organizations**

### **7.4.1 Partnership for Observation of the Global Ocean (POGO)**

*Field*

The most recent POGO meeting was in Yokohama, Japan and Akira Taniguchi represented SCOR at that meeting. The next POGO meeting will be held in Brest, France on 29 Nov.-1 Dec. 2004.

**Action: Decide whether to send a SCOR Executive Committee member to the upcoming POGO meeting.**

## **8.0 ORGANIZATION AND FINANCE**

### **8.1 2004 Election of SCOR Officers**

*Field*

Bob Duce (President), John Field (Past-President), and Roberto Purini (Vice-President) have completed their allowed terms. Laurent Labeyrie (Vice-President) and Akira Taniguchi (Vice-President) are eligible for re-election. SCOR received one nomination for president (Bjorn Sundby [Canada]), four for Vice-President (Victor Akulich [Russia]), Laurent Labeyrie [France], Akira Taniguchi [Japan], and Ilana Wainer [Brazil]).



**Action: Announce new officers, unless an election is called by at least three SCOR national committees by Sept. 13.**

## 8.2 Membership

### 8.2.1 National Committees

*Urban*

Ed Urban met with the French SCOR Committee in May 2004, following the symposium on The Ocean in a High-CO<sub>2</sub> World. Korea and Ireland communicated to SCOR in recent years that they were no longer interested in participating in SCOR and/or could not afford to do so, so they were removed from the list of SCOR national committees in 2004. Thailand has enquired about re-joining SCOR. The changes in Nominated Members are given on **p. 8-9**.

### 8.2.2 National Members Moving to Suspended Status

*Field*

The Executive Committee approved a procedure to change the status of members not paying their dues, to “Suspended Member” status, with less benefits. At the end of 2004, Bangladesh and the Philippines are subject to a change in their status, since they have not paid dues in 2001-2004.

**Action: Discuss next steps to implement the policy.**

## 8.3 Publications Arising from SCOR Activities

*Urban*

Publications from Working Groups and Major Projects—WG 112 published a special issue of *Biogeochemistry* and WG 113 published a special issue of *Marine Geology*. GEOHAB published its *Implementation Plan* and SOLAS published its *Science Plan and Implementation Strategy* since the last SCOR meeting. Other publications are listed on **p. 8-14**.

2003 *SCOR Proceedings*—The *Proceedings* was printed and distributed in August.

SCOR Brochure—The SCOR brochure is updated occasionally and given to potential sponsors, potential member nations, and others. The brochure is available in English (see front inside pocket of background book), Spanish, and French.

SCOR Web site—A request was made at the 2002 meeting to add scientific highlights related to SCOR activities. Highlights from GLOBEC and SOLAS are now linked to the SCOR Web site and others will be added as they are available. SCOR is providing Web site services for WG 121’s conference and for IMBER (until it has a full IPO).

**Action: Are additional changes needed to the Web site?**

# 1-16

SCOR Poster—The SCOR poster in A3 size was printed in May and distributed with the *SCOR Proceedings*. The SCOR poster in A0 size will be distributed to SCOR Executive Committee members.

**Actions: None**

## 8.4 Finances

*Finance Committee, Urban, Gross*

The annual audit was performed in mid-February and Elizabeth Gross worked to prepare information for the auditors. The financial records and financial controls were found to follow accepted standards (see p. 8-16).

SCOR received two new grants from the Sloan Foundation this year, new grants from NSF and ONR, and annual increments to the SCOR science grant and developing country travel grant from NSF. New funding for GEOTRACES was added to the NSF science grant. NOAA has provided new funding for GEOHAB.

**Actions: (1) Approve revised 2004 SCOR budget. (2) Approve 2005 SCOR budget. (3) Approve dues increases for 2006.**

## 8.5 The Disciplinary Balance among SCOR Working Groups

*Field, Sundby*

Additional information was collected from past chairs of SCOR working groups. Bjorn Sundby will review and summarize the information for the Executive Committee.

**Actions: What actions and/or changes in working group procedures are needed?**

## 8.6 SCOR Secretariat Personnel Actions

### 8.6.1 Hiring of New Administrative Secretary for SCOR Secretariat

*Urban*

Phyllis Steiner was hired in November 2003 as the half-time Administrative Secretary for the SCOR Secretariat and is doing an excellent job.

**Action: None**

## 9.0 SCOR-RELATED MEETINGS

### 9.1 SCOR Annual Meetings

The Executive Committee will consider potential locations in which to hold future meetings, particularly in nations that have not recently hosted annual meetings.

#### 9.1.1 2004 General Meeting – Venice, Italy

*Purini, Duce*

**Action: Thank Italian SCOR Committee and Italian National Research Council.**

**9.1.2 2005 Executive Committee Meeting – Cairns, Australia** *Urban*

SCOR has received an official invitation from the Australian Academy of Sciences to meet in Australia following the IAG/IAPSO/IABO meeting in August 2005 (see p. 9-1). The SCOR meeting will be held in Cairns from August 29-September 1.

**Action: Identify special agenda items/speakers for SCOR meeting.**

**9.1.3 2006 General Meeting – Concepción, Chile** *Urban*

The Chilean SCOR Committee has informally offered to host the 2006 General Meeting in Chile. **Action: Discuss whether to accept an invitation from Chile, if made officially.**

**9.1.4 2007 Executive Committee Meeting** *Duce*

Since the 2007 meeting was shifted to 2008, a new location must be found for the 2007 meeting.

**Action: Discuss potential locations for 2007 Executive Committee meeting.**

**9.1.5 2008 General Meeting -- SCOR 50<sup>th</sup> Anniversary— Woods Hole, USA** *Duce*

The Executive Committee has agreed to hold its 2008 meeting in Woods Hole to celebrate SCOR's 50<sup>th</sup> Anniversary, since Woods Hole was the site of the first SCOR annual meeting, in 1957. The meeting will include some kind of symposium or session that will look backward and/or forward.

**Action: Appoint planning committee to report back at 2005 General Meeting.**

**9.2 Other meetings of interest to SCOR** *Urban*

Other SCOR-related meetings are listed on p. 9-5.

**10.0 OTHER BUSINESS****Adjourn Open Executive Committee Meeting**

## **1.3 Report of the SCOR President**

### **1.4 Report of SCOR Executive Director**

This report will describe the status of SCOR in a number of general areas. The annotated agenda gives a summary of the various projects, which are amplified by the written reports of each group and some verbal reports at the General Meeting.

**Finances**—The finances for SCOR are divided into two basic categories: (1) discretionary funding and (2) flow-through funding. For financial management and auditing reasons, and to give proper credit to SCOR’s sponsors, SCOR does not mingle these funds, but keeps them very distinct.

Discretionary funding primary derives from dues to international SCOR from national SCOR committees. Dues are used to pay for operation of the SCOR Secretariat, the annual SCOR meeting, sending SCOR reports to developing countries, and for some working group and other scientific activities.

Flow-through funding derives from grants received by SCOR from national funding agencies, international organizations, and private foundations. These funds are devoted to specific activities. SCOR received continuing increments on its science grant and grant for travel for developing country scientists from the U.S. National Science Foundation. NSF also provided additional funds for GEOTRACES planning and for continuation of activities of the International Ocean Carbon Coordination Project (?). SCOR also cooperated with IAPSO in submitting proposals to NSF and the Office of Naval Research to help fund the conference planned by WG 121 on Ocean Mixing for October 2004 and received \$40,000 in new funds for this activity. Finally, SCOR received \$175,000 in new funds from the Sloan Foundation for support of the project coordination meeting and the new Panel on New Technologies for Observing Marine Life. SCOR needs the assistance of national SCOR committees to develop more flow-through funding from national funding agencies for specific activities, so that SCOR will be less dependent on U.S. funding sources for these activities.

**Membership**—Thailand has made inquiries about re-joining SCOR.

**Publications**—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 the site several times each week, as I receive new information, and the site is checked for “dead links” occasionally. A SCOR poster was published in 2004. SCOR activities yielded a number of publications in the primary literature and other venues this year, including several special issues of peer-reviewed journals.

**Meetings**—Between the 2003 and 2004 SCOR annual meetings, 8 SCOR working groups met (WGs 115, 116, 118, 119, 120, 122, 123, and 124). The GLOBEC SSC and its focus groups have conducted several meetings to continue working on implementing international GLOBEC activities and synthesizing GLOBEC research. The SOLAS SSC met in Bergen, Norway in June 2004 to continue implementation of SOLAS activities. The Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) Transition Team met in Baltimore, USA in December 2003 and the IMBER SSC met in Plymouth, UK in August 2004. GEOHAB held two focused open science meetings, in Lisbon, Portugal and Vina del Mar, Chile. The GEOTRACES Planning Committee met in Oxford, UK in May/June 2004.

SCOR provided leadership in helping marine projects to work together by sponsoring two meetings to bring together project representatives: (1) a meeting on Data Management for International Marine Research Projects (with IGBP) and (2) a meeting on Coordination of International Marine Research Projects.

Finally, SCOR and IOC sponsored an very successful symposium on The Ocean in a High-CO<sub>2</sub> World in May 2004 in Paris, France, at UNESCO Headquarters. The time of this meeting was fortunate, in that major papers appeared in *Science* soon after the symposium, producing even greater attention on the issue of ocean acidification.

I met with the French SCOR Committee in Paris after the symposium on The Ocean in a High-CO<sub>2</sub> World. Although SCOR has only limited funding for its Executive Director or President to meet with national SCOR committees, we welcome opportunities to meet with national committees when we are traveling for other purposes in countries with national SCOR committees.

**Outreach to Scientists From Developing Nations and Capacity-Building Activities**—SCOR promotes the improvement of scientific capacity in developing countries and countries with economies in transition by ensuring that every SCOR working group and other activity includes scientists from such countries. (21% of the membership of SCOR working groups, major projects, and other committees are from developing countries and countries with economies in transition.) SCOR also (1) administers a grant from the U.S. National Science Foundation to provide travel support to scientists from such countries to attend scientific meetings (see p. 5-1), (2) participates with POGO and IOC in supporting a program of visiting fellowships for oceanographic observations (see p. 5-8), and (3) is considering an activity to promote regional graduate schools of oceanography and marine environmental sciences. SCOR submitted a proposal to ICSU in 2004 to request funds to continue developing this latter activity. The Third World Academy of Sciences and IUGG served as supporting applicants. Unfortunately, the proposal was not funded.

**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 made progress in new partnerships with SCOPE, IAPSO, and PICES, and have also strengthened our relationships with IGBP, IOC, and POGO. I want to extend special thanks to my colleagues Wendy Broadgate (IGBP), Maria Hood, Henrik Enevoldsen, and Umit Unluata (IOC) for their great assistance in our joint activities in the past year.

**Staffing**—Elizabeth Gross continues to handle many different financial aspects of SCOR, including the audit and reimbursements from sponsoring agencies and organizations. Liz is also working on the logistics of several large meetings for us, using project funds. I continue to manage the SCOR Secretariat activities, work on new project development/serve as a part-time Executive Officer for new projects (GEOHAB, GEOTRACES, ocean carbon), pursue new funding for SCOR activities, and work on the SCOR Web site. Wesley Anne Ross retired from the Secretariat in July 2002 and I hired an Administrative Secretary (Phyllis Steiner) in November 2003, who is doing an excellent job.

## **1.5 Appointment of an *ad hoc* Finance Committee**

The Executive Committee approved Birger Larsen (Denmark) to chair the 2004 Ad Hoc SCOR Finance Committee. Two other members will be identified before the meeting. The committee was approved in advance so they could receive and review SCOR financial information before the meeting.

## **1.6 Committee to Review the Disciplinary Balance of SCOR’s Activities**

The committee of Laurent Labeyrie, John Field, and Roberto Purini was formed at the 2002 General Meeting and was asked to continue their work through the 2004 General Meeting. Bjorn Sundby will present a summary and analysis of input from past WG chairs.