

5.0 CAPACITY-BUILDING ACTIVITIES

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|-----|--|----------------------|
| 5.1 | Regional Graduate Schools of Oceanography and Marine Environmental Sciences, p. 5-1 | <i>Field, Wainer</i> |
| 5.2 | POGO-IOC-SCOR Visiting Fellowships for Oceanographic Observations, p. 5-2 | <i>Urban</i> |
| 5.3 | Requests for Travel Support for Developing Country Scientists, p. 5-1 | <i>Urban</i> |
| 5.4 | SCOR Reports to Developing Country Libraries, p. 5-14 | <i>Urban</i> |
| 5.5 | Third World Academy of Sciences | <i>Schaeffer</i> |
| 5.6 | ICSU Priority Area Assessment on Capacity Building | <i>Urban</i> |

5.1.1 Regional Graduate Schools of Oceanography and Marine Environmental Sciences (RGSO)

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 and Manuwadi Hungspreugs (Thailand). The committee presented their report at the 2003 Executive Committee Meeting. Field reported that the sub-group had not made much progress yet, but a few of them discussed the activity while at the Executive Committee meeting. They want to see the idea taken forward and suggest a policy of regional graduate schools that are partnerships among graduate schools in Latin America, Africa and southeast Asia. Field, Wainer, and Hong agreed to try to take this approach forward. In South America, this would mean a link to the existing program in Concepción, but an expansion of it. There is an existing partnership in southern Africa, without any marine content. However, the University of Cape Town has a large marine science initiative and Field hopes to link the two. Hong reported on a system of summer schools in Asia that could be linked somehow. Any effort under SCOR will need funding. What the planning group has in mind are short courses in relevant topics similar to those currently sponsored by the University of Concepción, the International Ocean-Colour Coordinating Group (IOCCG), and others. Such an activity should propose links to IOC/UNESCO, the Partnership for Observations of the Global Ocean (POGO), and other relevant organizations. But, this must involve regional partnerships in order to avoid rivalries. It will be necessary to develop networks in each region in order to successfully develop such a program. Each of these regions has a Large Marine Ecosystem (LME) activity, funded by the Global Environment Facility (GEF). Perhaps the centers could link to this structure. Umit Unluata reported that the marine education activity by IOC will be re-structured after Ehrlich Desa's appointment and urged strongly that Desa be involved in the SCOR activity. Terms of reference need to be developed for this activity.

SCOR submitted a proposal to ICSU to try to obtain some funding to implement the idea, but the proposal was not successful (see following). The committee will attempt to find funding from regional sources, such as APN and IAI.

5-2



Dr. Ed Urban
Executive Director, SCOR
Department of Earth and Planetary Sciences
Johns Hopkins University
Baltimore, MD 21218
USA

2.4.1

Paris, 7 July 2004

Dear Dr. Urban,

The Committee on Scientific Planning and Review (CSPR) met on 8-9 June to decide on the awards for the ICSU Grants Programme for 2005.

On behalf of CSPR, I thank you for having submitted the proposal entitled 'Regional Graduate Schools of Marine Sciences for Capacity Building in Developing Regions' and regret to inform you that it was not possible to fund the proposals. The overall quality of the proposals was considerably higher this year than in the past and only a proportion of the 'A' graded proposals were funded. A summary note on the evaluation of your proposal which was graded 'B' is attached (Annex 1). A table of submitted and awarded grants is attached for information. (Annex 2)

For information, ICSU received 40 applications requesting a total of US \$2,656,658 and the budget in the grants programme for 2005 is US \$350,000.

The budget has been substantially reduced for two main reasons: the decision of the USA to re-join UNESCO which has resulted in a withdrawal of the direct subvention to ICSU from the US State Department; and secondly, the dramatic weakening of the US dollar versus the Euro.

The combination of these two factors, at a time when ICSU is expanding its activities and undergoing an intensive strategy development process, has had a dramatic effect on ICSU's budgeting for 2005 and 2006. The reduction in the grants programme is a direct consequence of this. Whilst, we hope that this is a temporary phenomenon the immediate outlook for 2006 is also not very promising. In the longer-term however, the ICSU

Officers have confirmed the commitment to maintaining the grants programme as a key part of ICSU's overall strategy. This will entail discussion with other funding bodies.

For any further information please contact the Secretariat (Rohini@icsu.org).

With best wishes,

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Thomas Rosswall', with a long, sweeping underline that extends to the left.

Thomas Rosswall
Executive Director

Enclosures:
Annexes 1 & 2

5-4

No.	Lead / Supporting Applicant(s)	Title of Proposal	Grant Requested	Grant Awarded	Grade
1	CODATA/ ICSTI, INASP, IUPsyS, TWAS	E-Science and the Information Society: the road to Tunis	100,000	100,000	A1
2	WCRP / IHDP, IGBP	Scenarios to Aid Regional Food Security Policy Formulation	94,650	94,650	A1
3	IUGG / IUGS	Augmenting Groundwater Resources by Artificial Recharge in S.E. Asia	49,500	49,500	A1
4	IUPHAR/IUPAC, HUGO,IUBMB, IUPS	Consolidation and annotation of knowledge concerning receptors and sites for drug action in the human genome	100,000	100,000	A1
			Total A1	344,150	
5	DIVERSITAS / IGBP,IHDP, WCRP	Biodiversity and Ecosystem Carbon Storage	94,000	94,000	A2
6	IGU / IUPsyS, IUBS, IUGS, LEAD International	Geographical Perspectives on Sustainable Development: networking local area partnerships with teachers and young scientists	93,000	93,000	A2
7	COSPAR / ISPRS, IOC	Capacity Building Workshop-Oceanography	25,000	25,000	A2
			Total A2	212,000	
		Grand Total A1 +A2		556,150	
8	SCOPE / IUGG, SCOR	Dynamics of Semi-Enclosed Marine Ecosystems: the integrated effects of changes in sediment and nutrient inputs from land	100,000	0	A3
9	IUGG / WCRP	An Assessment of Aerosol Effects on Precipitation	42,000	0	A3
10	WDC / SCOSTEP, IUGG	Development of World Data Center Partner Sites	100,000	0	A3
11	IGU / ICA	Analyzing and Representing: the dynamics of the world water system	14,000	0	A3
40	IUHPS-DHS	Online Dictionary of National History of Sciences Bibliographies and Archival Source	15,000	0	A3

Note: A1: Assured funding
A2: Potential funding depending on ongoing negotiations with relevant US authorities
A3: Not funded

No.	Lead / Supporting Applicant(s)	Title of Proposal	Grant Requested	Grant Awarded	
12	SCAR/US NAS	Polybrominated Diphenyl Ethers (PDEs): Emerging Persistent Organic Polluants (POPs) in Antarctica	100,000	0	
13	SCOPE / IHDP, IGBP	Consequences of Industrialised Animal Production	100,000	0	
14	IUFosT / IUNS, UNU-NP	Enhancing Human Capital in sub-Saharan Africa in Food S&T through distance education	100,000	0	
15	IUPAC/ IUPAP, UNIDO	Measurement Traceability - a fair basis for trade	90,000	0	
16	SCL-ILP / IASPEI, IUGS	Assessment of the Current Practice of Disaster Management in Megacities in Developing Countries	83,000	0	
17	FAGS / IUGG	Scientific and Practical Sea Level-Related Products for Developing Countries	71,675	0	
18	SCOPE / IUGG	Biological Measures of Water Quality: their relevance to present and future contaminants	50,000	0	
19	SCOPE / IGBP, IHDP	Agriculture, Information Technologies, Land-use Changes and Impacts on the Environment and Society	50,000	0	
20	GTOS / DIVERSITAS	Towards a Global Observing System for Biodiversity: preparation of an adequacy report and an implementation plan	50,000	0	
21	IGBP/SCOR, DIVERSITAS, IHDP	To Build an Overall Framework for Human Dimensions: biophysical collaborative research in the marine domain of the earth system	48,000	0	
22	IGU / ISPRS, IUSS	Study Tour on Land Degradation and Poverty in Vietnam, July 2005	48,727	0	
23	WCRP/ IGBP, IHDP	Climate Prediction and Agriculture: an assessment and perspective	48,500	0	
24	CODATA / NRF- South Africa, USA	Workshop on Preservation of and Open Access to Digital Scientific Information Resources in the Southern African Region	40,000	0	
25	IMU / Royal Society, UK	African Mathematics Millennium Science Initiative Planning Grant	20,000	0	
26	SCL-ILP / IASPEI, Comm. Edn, IUGG, IUGS,	AfricaArray: Building a professional workforce for Africa's natural resource sector	100,000	0	

5-6

27	IUBMB / IBRO, INASP, Germany, Poland, France	Internet for Africa: A pilot project for Cameroon	99,606	0	
28	IUBMB / IUCr	BioMoleculesAlive.org: Digital library of biochemistry and molecular biology education	96,000	0	
29	SCOR / IUGG, TWAS	Regional Graduate Schools of Marine Sciences for Capacity Building in Developing Regions	85,000	0	
30	SCOSTEP / IUGG-IAGA- IAMAS, WDC	SCOSTEP/CAWSES Capacity Building and Scientific Education Project	60,000	0	
31	CODATA / Russia	Space Physics Interactive Data Resource (SPIDR) development in preparation of electronic Geophysical Year-eGY-2007	49,800	0	
No.	Lead / Supporting Applicant(s)	Title of Proposal	Grant Requeste d	Grant Awarded	
32	IUPAB / IUPAP, Argentina, Uruguay	Capacity Building and Education in Biophysics: A project for Latin America and Asia	47,200	0	
33	IUPS/IBRO	Building Capacity in Teaching Physiology and Neuroscience	45,000	0	
34	SCL-ILP / IASPEI, IAG	Capacity Building Workshop on Deformation Measurements and Understanding Natural Hazards in Developing Countries	45,000	0	
35	IAU/Netherlan d	Universe Awareness for Young Children in Developing Countries	25,000	0	
36	IUPAC / IUCr, ICSTI, IUBMB	Networking Public Scientific Reference Databases	100,000	0	
37	IUGG / SCOSTEP,	Establishment of the Electronic Geophysical Year, 2007-08	100,000	0	
38	IUPsyS / CODATA, IUPAP,IBRO, IGU,Canada	Attitudes of data users and producers from knowledge-based, developing and transitional societies toward the sharing of scientific and technical data: a study of barriers and facilitators within the culture of different scientific communities	47,000	0	
39	IUAES / Czech Republic	Racism's Many Faces: Challenges for Anthropologists and Ethnologists	30,000	0	
		Total requested	2,656,65 8		

SCOR Regional graduate schools of marine sciences for capacity building in developing countries

Lead reviewer: Khotso Mokhele

Supporting reviewer(s): Ranjan Ramasamy and Pierre Ritchie

1. Relevance to ICSU Priorities in the call for application (Themes, Geographical coverage, Interdisciplinary, Participation of developing country scientists and women scientists; Number of supporting applicants and their roles; Potential to act as a catalyst for future ICSU activities)

Brief note on strength / weakness of the proposal

Grade: A

The proposal clearly supports the ICSU priority on capacity building in science education and sustainable development and has the capacity for impact in various regions of the developing world. The project also lends itself to good involvement of ICSU regional offices.

2. Scientific Quality (Innovativeness; Definition of goals; Description of methodology; Significance of possible output; Added value to science)

Brief note on strength / weakness of the proposal

Grade: B

The rationale for the proposal represents an idea that is proving more effective in addressing issues of capacity building in science education in developing countries than many previous methods. The concept has some innovativeness in the context of marine sciences but necessarily as general concepts. Creation of the envisaged Graduate Schools will undoubtedly have great impact on the regions concerned. The difficulty with the proposal is that idea was first introduced in 1998 and failed to develop due to failure to raise the necessary funding to implement the idea. What is therefore needed is funding to implement the concept which would hardly be an activity that falls within the scope of ICSU. The proposal is rather unconvincingly crafted in a manner that suggests reconceptualisation.

3. Cost/time effectiveness (Realism of budget; Significance of ICSU financial support on the proposed activity; Expectation to complete activity within stipulated time frame)

Brief note on strength / weakness of the proposal

Grade: C

The budget seems appropriate for a planning exercise even though the specific activity (single workshop or four regional workshops) has yet to be determined. The commitment of the applicants to the project is brought into doubt by the small contribution that the applicants plan to contribute. The cost effectiveness of the proposal is also made difficult to assess by the fact that the idea was first mooted in 1998 and failed to take off.

4. Strength of the proposers (Reputation; Numbers; Collaborators)

Brief note on strength / weakness of the proposal

Grade: A

SCOR is the right organisation to lead the project. Even though TWAS and IUGG offer staff member/volunteer to assist in the project, their supporting letters are rather weak and unconvincing.

Summary Grade**: **B**

5-8

5.2 POGO-IOC-SCOR Visiting Fellowships for Oceanographic Observations

This fellowship program continues to attract enough applications to allow selections to be made for the most qualified applicants. In the fourth round of applications, 12 individuals were funded for fellowships in 2004. POGO included the fellowship program in its proposal for a POGO-IOC-SCOR Initiative for Intelligent Use and Management of the Oceans, in response to a call for initiatives after the World Summit on Sustainable Development.

POGO asks sending and host institutions to evaluate the fellowship experience after the completion of each year's fellowship. The following comments relate to responses on the 2002 and 2003 fellowships.

2002 Fellowships

“During his stay at the Alfred Wegener Institute for Polar and Marine Research [REDACTED] was introduced in our laboratories to various analytical techniques that are applied in the field of chemical oceanography... He was very interested in all kind of analytical techniques and research projects and I think that the stay here was very important for his future career.”

Prof. Dr. G. Kattner (Host Institution)
Alfred Wegener Institute for Polar and Marine Research, Germany

“This is the first time we benefit from this Fellowship Programme and we must say that the results have been very satisfactory. It seems to us that is very useful and enriching for young scientists. Not only it allows them to receive an important experience working under new and modern techniques and/or equipment, but it is also useful for both sides, the trainee's parent and host institutes, opening an opportunity to promote interesting and future research collaboration between both laboratories.”

Dr. Emilio Garcia-Ladona (Host Institution)
Institut de Ciències del Mar, CMIMA-CSIC, Spain

“Very useful and important programme, it provides a great chance for young scientists to receive experience of scientific work and international contacts. Also it leads to collaboration between different scientific institutes.”

Dr. A.G. Zatsepin (Sending Institution)
P.P. Shirshov Institute of Oceanology, Russia

“His two month fellowship, especially with the time for the Ecosystems course, did not give us enough time to complete this exercise which we will finish by e-mail collaboration. I fully expect this will result in a published paper in the near future. Another thing [REDACTED] did was to give a seminar here at IES on his work on bacterial

dynamics in tropical estuaries. It was very well received. ... It was delightful to be able to support [REDACTED] through this fellowship. It provided us both with some time to interact that probably would not have happened otherwise.”

Dr. Jonathan Cole (Host Institution)
Institute of Ecosystem Studies (IES), USA

“In summary, I believe [REDACTED]’s time was very well spent and was well-rounded including professional growth and hopefully also with a glimpse into our culture ... I have nothing but positive comments to offer [on the fellowship programme]. I think the opportunity given the POGO students is superb. The efficiency of the communication with the POGO office, the provision of travel and living expenses to the student, etc., was seamless and thus contributed to a painless and fruitful professional experience for us all. You run an excellent ship!”

Dr. Francisco (Cisco) Werner (Host Institution)
Department of Marine Sciences
University of North Carolina, USA

“In this case the Programme had a tremendous multiplicative effect. I think that the key was the sense of opportunity, the flexibility, the expediency. Small focal action can be very effective when it brings together the right people, to work on a well identified problem. Dr. Werners background and dedication, [REDACTED]’s motivation, and a well defined question proved to be a terrific combination. The Programme was the catalyst.”

Dr. José (Lobo) Orensanz (Sending Institution)
CENPAT/CONICET, Argentina

“My experience with this programme has been very positive. It allows for inter-institutional exchanges of a very fruitful kind. It is an avenue that did not exist before, and merits continuation and expansion.”

Dr. Trevor Platt (Host Institution)
Bedford Institute of Oceanography, Canada

“This fellowship programme is invaluable since it allows to initiate collaborations with people from other countries without being obliged to build a big project such as those supported by the European Community. There is actually very few other ways for us to create that kind of links between two foreign institutions.”

Dr. Cyril Moulin (Host Institution)
CRNS-CEA, France

5-10

“I found this fellowship programme very useful way of establishing scientific contact between young researches from developing nations and more senior scientists from advanced institutions. I hope financial resource of this programme will increase in the future and more trainees will be benefited.”

Prof. Temel Oguz (Sending Institution)
Middle East Technical University, Turkey

“I can report this program to be very useful as it allows young scientists to get acquaintance with different methods of analyses and approaches to basic questions of oceanology. From my point of view it would make sense to prolong the training duration to 4 months.”

Prof. V.V.Sapozhnikov (Sending Institution)
Head of the Laboratory of Marine Ecology VNIRO, Russia

2003 Fellowships

“The fellowship programme has been sharply effective and pragmatic. Starting with the topic of the fellowship, a real hot subject from which scientific work based on field observations can not hold, and following with an efficient/non bureaucratic handling and administration of the programme made these fellowships of selected topics be highly operative and useful.”

Dr. Raul Guerrero (Sending Institution)
INIDEP, Argentina

“This programme is a good opportunity to exchange experience the field of scientific data management, field that is critical and not always given the appropriate human and financial support. It can help to develop best coherent and compatible databases and practises, as recommended by IOC, ICES and GOOS/JCOMM.”

Dr. Catherine Maillard (Host Institution)
SISMER/IFREMER, France

“I think this kind of program is extremely important as a way of exchanging information and expertise among different institutions. This programme is a nice way of bringing grad. students, or “potential grad. students”, to well-established oceanographic institutions to share and learn different techniques, and-or to consolidate their scientific knowledge.”

Dr. Edmo Campos (Host Institution)
Instituto Oceanografico, USP, Brazil

“The short term training program is of great benefit to scientists that are involved in research with short and medium term objectives, such as learning or improving techniques or methods whose processes are made faster and more efficient. This is of great advantage for analyzing results and solving problems at the time that can be presented in any of the processes of analysis. The training is also useful as it allows immediate improvement of knowledge that awakens new queries that do not necessarily imply a need for an in depth analysis.”

Lic. Roberto Flores (Sending Institution)
Instituto del Mar del Peru

“The Fellowship is a fabulous resource for initiating cooperative activities. The application process is greatly simplified by the familiarity of the POGO office with the science being done in its focus areas. I hope the programme will continue indefinitely.”

Dr. Helen Phillips (Host Institution)
CSIRO Marine Research, Australia

“The fellowship programme is fruitful and productive and helps significantly the development of the research institutes in the developing countries.”

Dr. Nasser Hadjizadeh Zaker (Sending Institution)
INCO, Iran

“I think that this is a very valuable fellowship program to provide "hands-on" experience in established scientists labs. It should be more widely advertised.”

Dr. Maureen H. Conte (Host Institution)
Woods Hole, USA

“I am very pleased that POGO is funding this initiative. It is not only a valuable experience for the trainees but also facilitates fostering scientific relations among researchers of different institutions. I just hope that POGO continues giving the financial support year by year.”

Dr. Silvio Pantoja (Sending Instititino)
University of Concepcion, Chile

5-12

The following are the fellowships awarded for 2004:

2004 POGO-IOC-SCOR Fellowship Programme

Fellowship Applicant	Parent Supervisor/ Organisation	Host Supervisor/ Organisation	Field of Interest	Total Grant
Dr. Andrea Cumino ARGENTINA	Dr. Graciela Salerno Mar del Plata, Buenos Aires, ARGENTINA	Ramón Massana Morela Institute of Sciences of the Sea Barcelona, Catalonia, SPAIN	Application of molecular methods for the taxonomic and phylogenetic characterization of the photosynthetic picoplankton of Argentinean Sea	1,950.00
Dr. Peyman Eghtesadi Araghi IRAN	Dr. Vahid Chegini Iranian National Center for Oceanography- Tehran, IRAN	Dr. Douglas Haffner Great Lakes Institute for Environmental Research University of Windsor Windsor, Ontario, CANADA	Training in Quantifying PAH Exposure Dynamics and Effects in the Persian Gulf.	4,400.00
Peygham Ghaffari IRAN	Nasser Hadjizadeh Zaker Iranian National Center for Oceanography Tehran, IRAN	Dr. Miroslav Gacic Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS) Trieste, ITALY	Current and physical parameters observation in a fixed-point mooring and time series analysis.	3,200.00
Abdulaziz Guneroglu TURKEY [SCOR]	Dr. Ercan Kose Karadeniz Tech. Univ. Faculty of Marine Sciences Çamburnu/Trabzon TURKEY	Dr. Shubha Sathyendranath Bedford Inst. of Oceanography Dartmouth NS, CANADA	Ocean Color Training in CASE II Turbid Waters	5,000.00
Dr. Joyosentono Haryono INDONESIA	Ir. Sumaryo MSc. Department of Geodetic Engineering Faculty of Engineering, Gadjah Mada University Yogyakarta, INDONESIA	Prof. Dr. Razali Mahmud Centre for Hydrographic Studies University of Technology Malaysia Johor Darul Ta'zim, MALAYSIA	Data management using CARIS	3,400.00
Dr. Sudheer Joseph INDIA	Dr. K. Radhakrishnan Indian National Centre for Ocean Information Services Hyderabad, INDIA	Dr. Howard J. Freeland / Dr. Ron Perkin Institute of Ocean Sciences Sidney, B.C., CANADA	Delayed Mode Quality Control for Argo Data	5,300.00
Mr. R. Jyothisbabu	Dr.K.K.C. Nair National Institute of Oceanography Kochi, Kerala, India	Prof. Peter Burkill Deacon Division for Ocean Processes Southampton Oceanography Center Southampton, UK	Microbial biogeochemistry of the Arabian Sea	4,100.00
Dr. G. Malarvannan INDIA	Mr. K. Venkateshvaran Central Institute of Fisheries Education, Deemed University Aquatic Biotxinology Laboratory Central Institute of Fisheries Education Mumbai, INDIA	Dr. Lesley Rhodes Senior Research Scientist Cawthron Institute Nelson, NEW ZEALAND	Methods of Monitoring and Analysis of Marine Biotoxins	4,250.00

Muriel Moise SEYCHELLES	Jude. P. Bijoux Seychelles Centre for Marine Research and Technology Marine Parks Authority Victoria, Mahe SEYCHELLES	Tom Hooper Shoals Rodrigues Shoals Rodrigues, Port Mathurin, Rodrigues Island MAURITIUS	Zooplankton identification and data management.	1,500.00
Ivan Perez CUBA [SCOR]	M. Sc. Elisa García Rodríguez Centro de Investigaciones Pesqueras de Cuba Ciudad de la Habana, CUBA	Rubén Escribano COPAS Universidad de Concepción Concepción, CHILE	Training course in oceanographic time series analysis and the use of the recent oceanographic equipments.	1,800.00
Widodo Setiyo Pranowo INDONESIA [SCOR]	Dr. Safri Burhanuddin Head of Research Center for Maritime Territories & Non-living Resources Jakarta, INDONESIA	Dr Helen Phillips CSIRO Marine Research Hobart, Tasmania AUSTRALIA	Argo float preparation, deployment, and data quality control.	3,329.00
Zulma Stanganelli ARGENTINA	Dr. D. F. Vergani Centro Nacional Patagonico Puerto Madryn Chubut, ARGENTINA	Prof. D.R.F. Taylor Geomatics and Cartographic Research Institute Carleton University Ottawa, Ontario, CANADA	Application of Object Orient GIS modelling to better understand the impact of El Niño in the Southern Ocean Ecosystem	5,000.00
TOTAL				43,229.00

5.3 Requests for Travel Support for Developing Country Scientists

Since 1984, SCOR has received continuous support from the U.S. National Science Foundation (NSF) to provide funding for an important SCOR activity in the area of capacity building. Travel grants are awarded to ocean scientists from developing countries to enable them to attend international scientific meetings. More recently, travel assistance has also frequently been given to scientists from the former Soviet Union, Eastern Europe, and other countries with economies in transition

The amount of the award from NSF is now \$75,000 per year. Of this, a small amount (\$5,000 per year) is used to offset SCOR Secretariat expenses for contacting meeting organizers and recipients of travel funds, and making travel arrangements. Recipients of SCOR travel awards are always chosen in consultation with the organizers of meetings that SCOR has agreed to cosponsor; direct applications from individuals are not accepted by the SCOR Secretariat. Priority is given to applicants who are presenting a paper or poster at the meeting or to those who have some special expertise or regional knowledge to bring to a workshop or working group. Preference is also given to younger scientists. In general, care is taken to ensure that the recipients of SCOR/NSF funds are *active* scientists, and that they have not received similar support from SCOR in the previous two years. All travel grant recipients are informed that their support comes from SCOR and that it is made possible through NSF funding.

In the past few years there has been a trend toward offering partial travel support. This enables meeting organizers to assist a larger number of individuals with the limited SCOR funding available for each meeting. We have found that if the SCOR offer of partial travel support is

5-14

made far enough in advance, individuals are often able to mobilize national or institutional funds for the remainder of their travel expenses. Since 2001, a portion of total funding has been provided for longer-term courses or fellowships, such as the POGO-IOC-SCOR Visiting Fellowships for Oceanographic Observations.

The most recent three-year grant began on 19 July 2002. During the first two years of the present grant, 181 individual scientists from 41 countries received full or partial travel support that enabled them to attend 31 different scientific meetings or training programs during this period. About 70% of the scientists were from SCOR member nations, down from 82% for the previous grant. This change resulted from a greater number of travel grants being granted to individuals in countries of Latin America, Africa, and Eastern Europe that are not SCOR members.

The current grant runs until 30 June 2005, so decisions on allocations from this fund for meetings after that time will be subject to renewal of the grant.

2003-2004 Requests for Travel Grants

Name of Meeting	Dates	Amount Requested	Amount Suggested	Type of Meeting
Oct. 2004-June 2005				
1. GEOHAB OSM (eutrophication)	March 2005	\$5,000		Conference
2. GLOBEC/ESSAS	May 2005	\$6,000		Conference
3. AMEMR	June 2005			Workshop
4. SCOR Administration		Up to \$5,000		
		Total		
		Available		\$31,891
July - Dec. 2005				
5. 29 th Larval fish Conference	July 2005	\$12,800		Summer School
6. SOLAS Summer School	August 2005	\$3240 per student		
7. Ross Sea	Oct. 2005	\$4,000		Conference
8. PICES XIV	Oct. 2005			workshops
		Total		
		Available*		\$37,500

* If NSF grant is renewed.

Some of the requests listed above are for meetings in which SCOR is directly involved in planning, so there is no formal written request.

Request #1

The GEOHAB SSC will be convening an Open Science Meeting on Harmful Algal Blooms in Eutrophied Systems. This meeting will be held in the Baltimore/Washington, D.C. (USA) area. Ed Urban requests that some SCOR funding be devoted to bringing scientists from developing countries and/or countries with economies in transition to this meeting, if they are speakers or will present a poster.

Request #2 (see announcement following)

30 April, 2004

Dr Edward Urban
Scientific Committee on Oceanic Research
John Hopkins University
Baltimore, MD 21218
USA

RE: GLOBEC request to the Scientific Committee on Oceanic Research for travel support for scientists from developing countries and countries with economies in transition

Dear Ed,

As you know GLOBEC is organising a GLOBEC Symposium on **Climate Variability and Sub-Arctic Marine Ecosystems**, to be held in Victoria, B.C., Canada, May 16-20, 2005. Sub-Arctic seas have been the subject of several GLOBEC activities in the past and present, including the ICES-GLOBEC Cod and Climate Change (CCC) and the PICES-GLOBEC Climate Change and Carrying Capacity in the North Pacific, among others. Sub-Arctic seas support extraordinarily rich marine resources, and share several features in common: seasonal ice cover, dramatic seasonality, reduced sunlight and low biodiversity. GLOBEC feels it is time to host a symposium to present current knowledge of the effects of seasonal to multi-decadal climate variability on the structure and function of Sub-arctic marine ecosystems.

The symposium has secured some financial or in kind support from DFO Canada, NSF-USA, PICES and the North Pacific Research Board (NPRB). This has ensured the viability of the symposium, but no funds have been identified for inviting scientists from developing/ EiT countries (PICES support is limited and mostly in kind). We would like to invite scientists from China, Korea, Russia and the former Soviet Union countries, to broaden the impact of the Conference and provide a more representative quorum for discussions on the last day of the meeting. This day has been set aside for implementation discussions of the proposed new GLOBEC activity on "Ecosystem Studies in Sub-Arctic Seas" (ESSAS), which furthers the legacy of the already mentioned CCC and CCCC.

GLOBEC would like to request the Scientific Committee on Oceanic Research to sponsor 3 scientists to this major symposium. The expected cost would be approximately US\$6,000. I would appreciate if you could discuss this request in the forthcoming SCOR General Meeting in Venice, Italy. With much appreciation for SCOR's continued support,

Yours sincerely,

5-16

Manuel Barange
Director GLOBEC IPO

Request #3 (see announcement following)

Date: Tue, 08 Jun 2004 13:59:44 +0100
From: Julian Icarus Allen <JIA@pml.ac.uk>
Subject: Re: SCOR travel grants
To: Ed Urban <scor@jhu.edu>

Ed,

As I mentioned to you at the GEOHAB meeting in Chile we at PML are organising a conference entitled Advances in Marine Ecosystem Modelling Research (AMEMR) to be held in June 2005. We envisage this to be a major international conference. The GLOBEC community are heavily involved in the steering committee and we are seeking to engage with IMBER. A flyer for the meeting is attached. When we last spoke you indicated that there is a possibility of travel grants being made available for scientists from developing countries. The information on the SCOR webpage indicates that I contact you for further details of how to make the submission. Can you please advise me how to proceed, what level of information you require and by when.

Many thanks

Icarus

Request #4

The SCOR travel grant from NSF allows SCOR to charge up to \$5,000 per year for SCOR Secretariat expenses related to administering the grant, including salary support for SCOR staff time.

Request #5

Request for funding support to invite 5 students from developing countries to participate in the 29th Larval Fish Conference 2005. Barcelona

The aim of the present proposal is to support Ph D students from developing countries to participate in the 29th Larval fish Conference 2005 to be held in Barcelona, Spain from 11 to 14 July 2005. This is an international congress relation to fish larval research. It is an important objective of the Conference to allow young scientist to contact with senior researchers and to allow them to present results of their investigations.

The international 29th Larval Fish Conference 2005 will be hosted by the Institut de Ciències del Mar, of the Spanish Consejo Superior de Investigaciones Científicas (ICM-CSIC) with the collaboration of researchers from four other Spanish institutions and the help of the ELHS Conference Committee.

The Larval Fish Conference has been held annually since 1977 with the purpose to create a *forum* to allow the interchange of information and ideas among the specialists in Early Life History of Fishes of around the world. These Conferences are organised and run by the volunteer Local Organising Committee of the Host Institution on behalf of the Early Life History Section (ELHS) of the American Fish Society of USA. This organisation is composed by scientist many countries. At present, president of the ELHS is Dr H. Browman from Norway. The Local Organising Committee is chaired by an Early Life History Section member, M. P. Olivar for 2005, and guided by the ELHS Annual Conference Committee (Dr. H. Browman, Norway and Dr. J.J. Govoni, USA). Usually, this meeting takes place in USA, with the participation of scientists of all around the world. Occasionally, the Congress has been held outside USA (1989: Yucatán, 1995: Sydney, 2002: Bergen). Therefore, we think that the Congress that will take place in Barcelona in 2005 will be, again, an excellent opportunity to bring together senior and young scientists from throughout the World.

There is growing evidence that environmental parameters are responsible for the high mortality that occur during the early life history stages of fishes through their effect on different organisms of the trophic web and on the larval condition. The variability in larval survival is directly linked to the variability in fish recruitment, and therefore in fish population abundance. The research on early larval stages of fishes is therefore closely linked to the objectives of the Global Change and Ecosystems Sub-Priority of FP6.

The themes addressed during the international Larval Fish Conference 2005 and in the Congress Book will deal on the following topics: 1) Effects of environmental variability on the life history strategies and recruitment: global climate change. 2) Fronts, eddies and early life histories. 3) Larval condition, growth and survival in the field and aquaculture. 4) Relationship between ecosystem features and the diversity of larval fish assemblages. 5) Functional morphology, physiology and behavior. 6) Fish development and systematics: new genetic advances and classical views. Discussions on the results of different studies on these topics will contribute to asses and forecast changes in biodiversity, structure, function and dynamics of marine ecosystems and will strengthen our capacity to understand, detect and forecast global change.

In this proposal we ask financial support to invite 5 students from developing countries to participate in the 29th LFC 2005. The requested funds are necessary to pay their conference registration fees (250 € per student) as well as travel (1200 € per student) and accommodation expenses (100 € per student per six days).. **Total for this objective = 10250 Euro.**

5-18

Request #6

Date: Thu, 15 Apr 2004 14:10:54 +0100
From: Casey Ryan <casey.ryan@uea.ac.uk>
Subject: Funding for the SOLAS Summer School 2005 and 07
To: Ed Urban <scor@jhu.edu>

Dear Ed,

I've mentioned this before, but I would formally like to apply for SCOR support to allow developing country scientists to attend the SOLAS Summer Schools in 2005 and 07. You can see details of the programme, lecturers and location at:
<http://www.uea.ac.uk/env/solas/summerschool/2005/>

We would like to have funds to support at least 10 developing country students and 1 lecturer (Osvaldo Ulloa). The funding for the school is much more problematic this time around as it is no longer possible for such international schools to be funded by the EU under Framework 6. We are applying to IOC, via Maria for similar support.

Our strategy is to do as much fundraising from national sources (CNRS, CNES, NSF, BMBF, MPI, UK SOLAS, Canadian SOLAS etc) to cover both the participation of their nationals and the running costs of the school. However, we are still expecting to have to charge a fee for students to attend. This would normally be met by the national funding agency as part of their support of the students.

We would like not to charge such a fee to developing country students, so we would ask that a small portion of the support for students is allocated to the running of the school. I realise that this may be difficult for you, but is something that we have been forced to do.

The costs in USD for a single student for the whole length of the school are approx:

Flight: 2000
Visa: 100
Food: 400
Accommodation: 400
Ground transport: 40
School running costs/fee: 300

Total: 3240 per student

Let me know if you need any further information.

Cheers,
Casey

Request #7

Date: Tue, 06 Jul 2004 17:03:51 +0100
From: Karen Heywood <K.Heywood@uea.ac.uk>
Subject: Funding for Venice autumn 2005
To: 'Ed Urban' <scor@jhu.edu>

Dear Ed,

As Chairperson of iAnZone, I would like to request some funding support from SCOR please for the following iAnZone members to attend the Ross Sea conference on our behalf in Venice in October 2005.

Mauricio Mata (from Brazil)
Alexander Klepikov (from Russia)

This is the 3rd international conference on the Oceanography of the Ross Sea. It will provide a valuable forum to debate the upcoming contributions to the International Polar Year (2007-8). It is important that participants from South America and Russia are supported, since they would be unable to attend otherwise. Their input is essential if IPY is to be a truly international project, and their attendance would be a lever to get their countries more fully involved in IPY.

Please could we request 4000 dollars to support their attendance?

Please let me know if you need additional information.

Many thanks,
Karen

Dr Karen J. Heywood, Reader in Physical Oceanography
School of Environmental Sciences
University of East Anglia
Norwich NR4 7TJ, U.K.
Tel. -44-1603-592555 Fax. -44-1603-591327
Email k.heywood@uea.ac.uk <http://www.uea.ac.uk/~e280/karen.htm>

Request #8 (from 2004 PICES report to SCOR)

- PICES requests to support participation of scientists from countries with “economies in transition” from the Pacific Rim in the PICES Fourteenth Annual Meeting to be held September 30-October 8, 2005, in Vladivostok, Russia. The overall theme for PICES XIV, “Mechanisms of climate and human impacts on ecosystems in marginal seas and shelf

5-20

regions”, is of interest to SCOR (description of the PICES XIV Science Board Symposium is included in Appendix 1). The scientific program for PICES XIV will be finalized in October 2004, at the upcoming PICES Annual Meeting.

- GLOBEC and PICES request to support participation of scientists from countries with “economies in transition” in the Symposium on “Climate variability and sub-arctic marine ecosystems” to be held May 16-20, 2005, in Victoria, Canada (extraction from the announcement for the Symposium is included in Appendix 2). [Note: this is the same as request #4 above.]

5.4 SCOR Reports to Developing Country Libraries

Three reports were sent to developing country libraries since the 2003 Executive Committee Meeting:

- *GEOHAB Implementation Plan*
- *Marine Geology* special issue from WG 113
- *Progress in Oceanography* special issue from WG 108

Two other reports are awaiting distribution:

- *SOLAS Science Plan and Implementation Strategy*
- *Biogeochemistry* special issue from WG 112



**CENTRE DE RECHERCHES
OCEANOLOGIQUES**

République de Côte d'Ivoire
Union - Discipline - Travail

Ministère de la
Recherche Scientifique

Abidjan, le 12 Février 2004

N/Réf. : 093/DIST/SY/et

Département de l'Information
Scientifique et Technique

à

Scientific Committee on Oceanic Research
Dept. of Earth and Planetary Sciences
The Johns Hopkins University
Baltimore, MD 21218 USA

Monsieur, Madame,

Nous accusons réception de vos documents intitulés

- Marine Geology, volume 201, issues 1-3, 30 Septembre 2003 ;
- Progress in Oceanography, volume 56, numbers 3-4, 2003 ;
- GEOHAB: IOC/Global ecology and oceanography of harmful algal blooms/ Implementation plan for the SCOR.

Nous vous remercions vivement de votre collaboration et de l'intérêt que vous portez à notre centre.

Nous vous prions d'agréer, **Monsieur, Madame**, l'expression de nos sentiments distingués.

SANKARE Yacouba

Libraries in Developing Countries That Receive SCOR Reports

Argentina	Universidad Nacional del Sur Bahía Blanca, Argentina
Bangladesh	Library SPARSO Dhaka, Bangladesh
Brazil	FURG Departamento de Oceanografia Rio Grande, Brazil Instituto Oceanográfico Universidade de São Paulo São Paulo, Brazil Dept. of Oceanography and Hydrology University of the State of Rio de Janeiro
Bulgaria	State Fisheries Inspectorate (SFI) Fisheries and Aquaculture Department Sofia, Bulgaria
Chile	Departamento de Oceanografia Universidad de Concepción Concepción, Chile Servicio Hidrografico y Oceanografico Valparaiso, Chile
China-Beijing	Library of Ocean University of Qingdao Qingdao, China Institute of Oceanology Chinese Academy of Sciences Qingdao, China Second Institute of Oceanography State Oceanic Administration Hangzhou, China
Croatia	Rudjer Boskovic Institute Zagreb, Croatia
Cote d'Ivoire	Centre de Recherches Oceanologiques (CRO) Abidjan, Côte d'Ivoire
Cuba	Centro de Investigaciones Pesqueras (CIP) Ministerio de la Industria Pesquera (MIP) Habana, Cuba

Egypt	National Institute of Oceanography and Fisheries Cairo, Egypt
Estonia	Estonian Marine Institute (MEI) Tallinn, Estonia
Fiji	Pacific Islands Marine Resources Information System (PIMRIS) The University of the South Pacific Suva, Fiji Islands
Ghana	Institute of Aquatic Biology Achimota, Ghana
India	National Institute of Oceanography Goa, India Physical Research Laboratory Ahmedabad, India
Indonesia	Centre for Oceanology Indonesian Institute of Sciences Jakarta, Indonesia
Kenya	Kenya Marine and Fisheries Research Institute (KMFRI) Mombasa, Kenya
Korea	Korea Ocean Research and Development Institute (KORDI) Seoul, Korea
Lithuania	Ichthyobank Vilnius, Lithuania
Malaysia	ICLARM - The World Fish Center Penang, Malaysia
Mexico	Universidad Nacional Autónoma de México (UNAM) México, D.F., México Biblioteca CICESE Ensenada, Mexico
Morocco	Institut National de Recherche Halieutique (INRH) Casablanca, Morocco
Pakistan	National Institute of Oceanography Karachi, Pakistan
Peru	Instituto del Mar del Perú (IMARPE) Callao, Peru
Poland	Institute of Oceanology Polish Academy of Sciences Sopot, Poland
Philippines	College of Science, University of the Philippines Quezon City, Philippines
Romania	Romanian Marine Research Institute Constanta, Romania

Russia	<p>P.P. Shirshov Inst. of Oceanology Russian Academy of Sciences Moscow, Russia</p> <p>All Union Research Inst. of Fisheries and Oceanography V Moscow, Russia</p>
South Africa	<p>University of Cape Town Cape Town, South Africa</p>
Thailand	<p>Dept. of Marine Sciences Chulalongkorn University Bangkok, Thailand</p>
Tunisia	<p>Institut National des Sciences et Technologies de la Mer (INSTM) Salammô, Tunisia</p>
Turkey	<p>Institute of Marine Sciences Middle East Technical University Icel, Turkey</p>
Ukraine	<p>Southern Scientific Research Institute of Marine Fisheries and Oceanography (YugNIRO) Laboratory of Pacific and Indian Oceans Fish Resources and Fishery Statistics Crimea, Ukraine</p> <p>Marine Hydrophysical Institute Ukrainian Academy of Sciences Sevastopol, Ukraine</p>
Vietnam	<p>National Institute of Oceanography Nha Trang, Vietnam</p>

5.5 Third World Academy of Sciences

5.6 ICSU Priority Area Assessment on Capacity Building

Urban

SCOR made four nominations for the ICSU PAA on Capacity Building: Manuwadi Hungspreugs (Thailand), S. Krishnaswami (India), Silvio Pantoja (Chile), and Su Jilan (China-Beijing), but none of the nominated individuals were appointed to the PAA committee.




ICSU

International Council for Science

2.4.2.3

5 April 2004

To: Secretaries-General of International Scientific Unions
Contact Points, National Scientific Members
Interdisciplinary Bodies and Joint Initiatives

From: Thomas Rosswall, Executive Director 

Subject: Priority Area Assessment on Capacity Building

As a follow-up to the 27th General Assembly, the Committee on Scientific Planning and Review (CSPR) has decided to carry out a Priority Area Assessment on Capacity Building in Science. The first PAA on Environment and its Relation to Sustainable Development has been finished and the printed report will be sent to you shortly. The second PAA on Scientific Data and Information will have its last meeting in June and the PAA on Capacity Building is the last in this series of PAAs. The final reports from these studies will provide important input to the process of developing a strategic plan for ICSU.

The goal of the Priority Area Assessments (PAA) process is to strengthen ICSU's overall capability in addressing priority scientific issues that are of emerging importance to science and the society at large. The PAA is a mechanism to develop ICSU's strategies for selected priority scientific areas. It is designed to help ICSU develop a programme structure reflecting its priorities; to ensure synergies in the activities of the ICSU family; and to enable an appropriate allocation of limited resources.

The immediate outcome of a PAA is a report and key recommendations that will be published and widely disseminated by ICSU. This report will form the basis for future actions by ICSU and ICSU family members, including the development of new research projects or programmes, the development of policy initiatives and definition of new priorities for the ICSU grants programme. Some of the recommendations may require the establishment of new partnerships

5-26

with bodies outside the immediate ICSU community or may be more appropriately taken forward by other organisations, in which case the necessary dialogue(s) will be initiated. The first meeting of the Panel on Capacity Building will be held on 10-11 June 2004 and one more meeting is planned for later this year. The draft report will be finalized by the end of this year and sent to the ICSU family for review.

As an outcome of the 2001 meeting of Scientific Unions, a compendium was prepared of on-going and planned capacity building activities within the ICSU family. This report was not widely circulated, but the information will be of great importance to the PAA deliberations. However, it needs updating to ensure that the information is current and correct. We would, therefore, like you to provide us with an update of your capacity building activities

As the first meeting of the PAA panel is in early June, the deadline for up-dating the online template is 15 May. Should you require any assistance please feel free to contact Rohini Rao at Rohini@icsu.org.

Enclosures: Terms of Reference for Capacity Building in Science
Membership of the Panel on Capacity Building

Priority Area Assessment on Capacity Building in Science

Terms of Reference

The Panel will:

- 1) Define an overarching "mission" and the added value of ICSU involvement in the area of the Capacity Building taking into account relevant activities outside of ICSU;
- 2) Propose a strategic framework for ICSU to take this area forward for the next 5-10 years;
- 3) Examine current activities within the ICSU family, identify gaps, overlaps and synergies among existing activities and possibly propose new responsibilities for individual bodies;
- 4) Propose modalities for promoting collaboration and co-ordination within the ICSU family when necessary and propose potential partnerships with bodies outside ICSU;
- 5) Examine and propose, if appropriate, changes either in the future direction of individual bodies and/or their activities, including relationships with other bodies/organisations.
- 6) Review the activities of the ICSU Scientific Unions and propose, if necessary, ways to strengthen interaction among themselves and also with interdisciplinary bodies and joint initiatives.

Priority Area Assessment on Capacity Building in Science

Ad hoc Panel

Jorge E. Allende (*Chair*)

Casilla 70086
Santiago 7, Chile
Tel: (56 2) 777 3428
Fax: (56 2) 737 6320
Email: jallende@abello.dic.uchile.cl

Sherburne B. Abbott

Chief Officer, AAAS
1200 New York Avenue, NW,
Washington DC 20005, USA
Tel: (1 202) 326 6655
Email: sabbot@aaas.org

Véronique Cabiaux

Vice-Rectrice à la Recherche et à la
Coopération
50 Avenue F. Roosevelt, CP 161
1190 Brussels, Belgium
Tel: (32 2) 650 2597
Fax: (32 2) 650 3512
Email: vcabiaux@ulb.ac.be

Savel R. Daniels

Department of Zoology
University of Stellenbosch, PB XI,
Matieland 7602, South Africa
Tel: (27 21) 808 3230
Fax: (27 21) 808 2405
Email: srd@sun.ac.za

Eduard Ghazaryan

24, Marshal Bagramian Avenue
375019 Yerevan, Armenia
Tel: (374 1) 524461
Fax: (374 1) 569281
Email: phmdep@sci.am

Harsh Gupta

Department of Ocean
Development
Block 12, Mahasagar Bhavan,
CGO Complex,
New Delhi 110 003, India
Tel: (91 11) 24360874
Fax : (91 11) 24362644
Email: dodsec@dod.delhi.nic.in

Ian Pool

Population Studies Centre
University of Waikato, PB 1305
Hamilton, New Zealand
Tel : (64 7) 838 4137/4040
Fax : (64 7) 838 4654
Email: pool@waikato.ac.nz

Yves Quéré

3 rue Laplace
75005 Paris, France
Tel: (33 1) 4441 4547
Email: y.queré@academie-
sciences.fr

M. A. Mohammed Salih

Institute of Social Studies
P.O. Box 29776, 2502 LT
The Hague, The Netherlands
Tel: (31 70) 4260573
Fax (31 70) 4260 573
Email: salih@iss.nl

W Ross Stone

1446 Vista Claridad
La Jolla, CA 92037, USA
Tel : (1 858) 459 8305
Fax : (1 858) 459 7140
Email: r.stone@ieee.org

5-28

Wei Yu

Vice President, CAST

3 Fuxing Road

Beijing 100863, China

Tel (86 10) 6857 1898

Fax (86 10) 6857 1897

Email: yw.rcls@163.net

Ranjan Ramasamy

(*ex officio*, CSPR Liaison)

Chairman

National Science Foundation

47-5 Vidya Mawatha

Colombo 07, Sri Lanka

Tel.: (94 1) 682352

Tel.:Fax: (94 1) 691 691

Email: chm2@nsf.ac.lk