

## 13<sup>th</sup> Meeting of the CSPR

10-12 February 2007

ICSU Secretariat, 51 boulevard de Montmorency, 75016 Paris

### Decisions

Present: B. Abegaz, R. Balstad, C. Cesarsky, A.M. Cetto (*ex officio*), M. Clegg, H. Gupta, M. Hoshi, C. Leaver, K. Mokhele (*Chair*), L. Mytelka, K. Raivio, R. Ramasamy, P. Ritchie, T. Rosswall (*ex officio*), H. Vessuri, A. Whyte.

Apologies: H. Schellnhuber

Secretariat: L. Geller, C. Smith, H. Moore (for Item 4)

By Invitation: Heide Hackmann, Secretary-General elect, ISSC; Gudmund Hernes President, ISSC; Véronique Plocq Fichelet, Executive Director, SCOPE (for Item 10); Dai Rees (for Item 15); John Marks (for Item 11, by phone).

#### 1. Opening of the Meeting

The Chairman welcomed all participants, noting that John Schellnhuber could not attend due to a medical injury.

#### 2. Adoption of the Agenda

<b>Decision</b>
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To adopt the agenda.
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#### 3. Decisions of the 12<sup>th</sup> CSPR Meeting and 94<sup>th</sup> Executive Board Meeting

The decisions from the 12<sup>th</sup> CSPR meeting were circulated to members and posted on the ICSU website. The following developments were highlighted for attention:

With regard to the decisions of the 12<sup>th</sup> CSPR meeting, the decision regarding the Global Ocean Observing System (GOOS; Agenda Item 11) has not yet been implemented, since ICSU has yet to receive a revised draft of the MoU.

The EB decided to co-sponsor a conference with ESF, and other partners, for African and European scientists on “Genomics and bioinformatics approaches to vaccine and drug target identification” (tentative title). The conference will be organized in South Africa, November – December 2007.

The EB also decided “To request the Secretariat to pursue discussions with AAAS, ICGBE and ICSU Members with a view to establishing an Observatory on Science and Intellectual Property Issues; and to present a more detailed proposal to the next meeting of the Executive Board”.

With regard to possible co-sponsorship of THORPEX by ICSU, a meeting will be held at the World Meteorological Organization in May.

The Executive Board decided to approve that the United Nations University becomes a cosponsor of the International Human Dimensions Programme on Global Environmental Change (IHDP) together with ICSU and the International Social Science Council (ISSC).

The Executive Board discussed with great enthusiasm the Young Scientists Conference, currently being planned for 4-6 April, 2007, in Lindau, Germany. Several Board members, including the Vice-President for Scientific Planning and Review, will be participating in the conference.

The next Unions Meeting will take place on 23-24 April in Rome. The overall theme of the meeting will be “ICSU and its Unions working together to deliver the ICSU strategy”.

<b>Decision</b>
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To note EB decisions.
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#### **4. Social Sciences Resolution of the 28<sup>th</sup> General Assembly**

Many recommendations for strengthened involvement of social sciences were put forward in the planning and review process that led to the development of the ICSU Strategic Plan. In addition, the 28<sup>th</sup> General Assembly passed a resolution calling for strengthened input of social sciences in ICSU. The 12<sup>th</sup> CSPR Meeting discussed this and decided to focus a major part of the 13<sup>th</sup> meeting on this topic. Background papers were commissioned from two groups of CSPR Members and the Secretariat.

ICSU has four Scientific Unions that cover areas of social sciences and humanities: International Geographical Unions (IGU), International Union of Anthropological and Ethnological Sciences (IUAES), International Union of the History and Philosophy of Science (IUHPS), and the International Union of Psychological Sciences (IUPsyS). There are two international organizations in the social sciences and humanities that are similar to ICSU: the International Social Science Council (ISSC) and the International Council for Philosophy and Humanistic Studies (CIPHS). ICSU has collaborated in particular with ISSC, which, together with ICSU, is a cosponsor of the International Human Dimensions Programme on Global Environmental Change (IHDP). ISSC has also supported ICSU in the preparation of the science input to the World Summit on Sustainable Development (WSSD) and the World Summit on the Information Society (WSIS).

Dr. Heide Hackmann, newly appointed Secretary-General of ISSC, and Professor Gudmund Hernes, President of ISSC, were invited to attend this part of the CSPR meeting. They gave brief presentations on their mandate to reform the ISSC and their

aspirations for the next three years. The CSPR engaged in a three hour discussion, in which a wide array of views were expressed.

**Decision**

To submit to the EB for consideration the following views and ideas that emanated from the CSPR discussion, to enable the EB to provide further guidance to the CSPR before the latter makes final recommendations to the EB:

- ICSU should take maximum advantage of the positive changes that are taking place in the ISSC and assist in any appropriate way to ensure success in the revitalisation of the ISSC.
- ICSU could consider encouraging a small number of ISSC Unions and Associations which are considered key to the implementation of the ICSU Strategic Plan to apply for ICSU membership. Included in this group could be International Political Science Association, International Sociological Association and the International Union for the Study of Population.
- Alternatively, ICSU could enlist the support of the three bodies mentioned above in the implementation of the ICSU Strategic Plan without encouraging them to apply for ICSU membership. A close working relationship between ICSU and these bodies would enable ICSU to know the bodies better, and vice versa, and assist ICSU to determine what an appropriate long term relationship with these would be.
- ICSU could consider it sufficient to simply continue working with ISSC and its key Unions and Associations in an ad hoc manner to improve ICSU's ability to identify the best Social Science researchers and scholars who can assist in the implementation of the ICSU Strategic Plan.
- ICSU could take greater advantage of the experiences of those of its National Members whose mandate includes Social Sciences and Humanities in mobilising good social sciences input into its activities.

These views and ideas could be considered singly, as some are mutually exclusive, or in various combinations.

**5. Millennium Ecosystem Assessment, Science Follow-Up Committee**

ICSU was a co-sponsor of the Millennium Ecosystem Assessment (MA), published in 2005. ICSU, UNESCO, and UNU are taking the lead in an effort to identify key gaps in scientific understanding that arose from the MA process, in an effort to stimulate the science community to continue research on linked ecological and social systems. Terms of Reference and membership of the *ad hoc* Committee were approved by the three organizations, and the committee's first meeting was held on 18-19 January, 2007. A brief report of this first meeting was presented to CSPR.

**Decision**

To support the committee's desire to see a formal process established for tracking the impacts of the MA, and for facilitating communication among current and future sub-global assessment efforts.

## 6. International Science Panel on Renewable Energies

The International Science Panel on Renewable Energies (ISPRES) is being co-sponsored by ICSU, the Renewable Energy Policy Network (REN21), and the International Council of Academies of Engineering and Technological Sciences (CAETS). The Panel membership has now been established, and the first meeting was held on 15-16 January 2007. A report of the Panel's first meeting was presented to CSPR.

Some CSPR members had suggestions for particular technological and thematic issues for the Panel to consider. It was suggested that the best approach is for individual CSPR members to submit these ideas in writing directly to the Panel.

### Decision

To note progress.

## 7. Data and Information

CSPR carried out a Priority Area Assessment of Scientific Data and Information that was published in December 2004. The key recommendations from this report were endorsed as part of the overall Strategic Plan 2006-2011. These are included as an important aspect of ICSU's role in promoting participation and universality (Strategic plan, pp. 39-41), with the following goal: *“to facilitate a coordinated global approach to scientific data and information that ensures equitable access to quality data and information for research, education and informed decision-making.”*

A key aspect of achieving this goal is the reform of ICSU's existing data and information structures. At its previous meeting, CSPR approved the terms of reference for an *ad hoc* Strategic Committee on Information and Data (SCID) that is charged with the task of overseeing this reform. It was agreed that Roberta Balstad would be the CSPR liaison person on this committee and the relevant Members and Interdisciplinary Bodies have been consulted for nominations. CSPR was asked to agree on the final membership of this committee.

### Decision

To invite Ray Harris (UK) to chair the *ad hoc* strategic Committee on Information and Data (SCID) and agree on the full membership of this committee [Annex 1]

## 8. International Polar Year

The International Polar Year (IPY) is a major new international programme, the framework for which was endorsed by the 28<sup>th</sup> ICSU General Assembly (October, 2005). It was planned by ICSU and is jointly sponsored with WMO, with an International Programme Office based at the British Antarctic Survey (Cambridge, UK). Over 200 collaborative project proposals have been endorsed by IPY and investigators are currently seeking funding in over 60 countries. It is estimated that the total investment in IPY is likely to be significantly more than €1bn. IPY will be formally launched from Paris on 1 March, 2007 and ICSU is taking the lead in

organising this international launch event.

The IPY Science Plan has been developed by the ICSU-WMO Joint Committee that was established in October 2004 to oversee the implementation of IPY. The Plan was provided for information. The science projects cover not only geosciences but also biological and social sciences. There are also substantial outreach and education activities. Whilst the potential new programmes currently being developed by CSPR (hazards, human health, MA follow-up) are all quite different in nature to IPY, some aspects of the processes for the successful development and implementation of IPY may nevertheless be applicable.

**Decision**

To note progress in implementing IPY.

## **9. Global Change Programme Reviews**

### 9.1 Earth System Science Partnership (ESSP)

Following the 12<sup>th</sup> meeting, CSPR agreed to the ToR and a slate of members for the ESSP Review Panel. In addition, the International Group of Funding Agencies (IGFA) have proposed two members, who were subsequently invited. The ICSU and ESSP Secretariats met with the Review Panel Chair, Louise Fresco, plus two Members, in January to develop the time schedule and review plans.

The Chairs and Director of the four Global Change Research Programmes met in November and decided to approach ICSU regarding the establishment of an Earth System Science Partnership (ESSP) Scientific Committee. ICSU then received a request to appoint four members of this Scientific Committee, along with nominations for four members of the Committee, and a ToR for the Committee. These were presented to CSPR.

### 9.2 Reviews of the World Climate Research Programme and the International Geosphere-Biosphere Programme

WCRP and IGBP will be reviewed following ESSP. Draft Terms of Reference and request for nominations of members of the Review Panels were sent to the programmes and IGFA as well as to IOC and WMO (for WCRP). The ToR and list of suggested Panel members was presented to CSPR.

WCRP and IGBP have requested a document outlining the possible advantages and disadvantages of a potential merger of the two programmes. Such a merger will also be considered by the Review Panel.

In addition, CSPR had a brief discussion about their role in committee appointment processes. After reviewing the official ICSU procedures on this matter, it was agreed that CSPR's role in approving the membership of scoping/planning/review committees is clear, but their role needs to be further clarified with respect to appointing committee members for the Interdisciplinary Bodies. It was also agreed that ICSU needs to develop better (more consistent) mechanisms for seeking nominations from entities beyond the ICSU membership.

**Decision**

To recommend to the Officers to approve the ToR for the Scientific Committee of the Earth System Science Partnership;

to recommend to the Officers to appoint A. Cropper, D. Kahneman, R. Leemans (Chair) and J. Melillo to the ESSP Scientific Committee;

to approve the amended ToRs for the WCRP and IGBP reviews; and

to appoint the members to serve on the Review Panels (Annex 2). It should be made clear to the Panel members that they serve in their personal capacities and alternates will not be allowed to attend meetings.

The CSPR *ex officio* members to the Panels will be C. Cesarsky (WCRP) and A. Whyte (IGBP).

**10. Scientific Committee on Problems of the Environment (SCOPE)**

SCOPE is one of ICSU's Interdisciplinary Bodies (classified as an Assessment Body), established in 1969 in preparation for the first UN Conference on the Human Environment (Stockholm, 1972). SCOPE deals with scientific issues of major significance on the world environmental scene, and looks at the management and policy implications of these problems. SCOPE projects are state-of-the-art scientific reviews that assess what we know about major environmental issues and identify major gaps in our understanding of current or emerging environmental problems. Over the years, SCOPE has published 65 volumes in its series of assessments. A SCOPE project can be developed over a period of several years and involve multiple workshops and/or consultations (a mainstream project), or it can take the form of a Rapid Assessment Project (RAP) structured around one major international workshop.

The SCOPE Executive Director presented the current SCOPE priorities. In view of the importance of SCOPE and its potential as a strategic resource for CSPR, and in view of the challenges facing SCOPE in a changing world, CSPR considered a review of SCOPE to be urgent.

The most recent dedicated SCOPE review was conducted in 1991, although the Priority Area Assessment on Environment and its Relation to Sustainable Development (2003) included the following section on SCOPE: *“The Scientific Committee on Problems of the Environment (SCOPE) plays a critical role in identifying and assessing the importance of emerging regional and global environmental issues, and is central to stimulating new scientific programmes and providing an important link between the scientific and policy communities. The major challenges for SCOPE are to be more focused (i.e. fewer studies), innovative (i.e. looking over the horizon for issues that are not already well-established on the scientific and political agenda), balanced (i.e. between regional and global studies), scientifically challenging and policy relevant, and feed more into the planning of other ICSU activities.”*

**Decision**

To request the Secretariat to liaise with SCOPE and propose draft Terms of Reference and a realistic timetable for a review; and

to note that since Global Change Programme reviews are currently underway (Agenda Item 9), the process and timing of such a review would be dependent on Secretariat

time and resources.

## 11. Review of ICSU Grants Programme

At the 28<sup>th</sup> ICSU General Assembly it was agreed that the grants programme should be suspended for 2007 and a review should be conducted in 2006-07. At its last meeting, CSPR finalised the membership of the Review Committee, which then met on 9-10 November, 2006. John Marks, the chairman of the Review Committee, joined CSPR by tele-conference for discussion of this item

The draft report of the Review Committee was provided for consideration by CSPR. The key recommendation was that the grants programme should be re-started for 2008 using ICSU's own funds, although additional funding would be required to maintain a viable programme in the medium-term. It was reported to CSPR that negotiations had started with UNESCO on the focus of the next Framework Agreement, 2008-2013, under which some funding might be made available for jointly -planned activities. However, the maximum amount likely to be available for projects in a revised 'grants-like' programme was only \$150k unless other partners could also be attracted. This now raised a serious question about the viability of such a programme.

Against the background of this somewhat bleak future funding perspective (information which had not been available at the time the Review Committee met) CSPR raised a number of issues:

1. It would be important to add an explanatory note to the report before it was circulated to Members, explaining the overall funding context for ICSU and any consequent recommendations that might appear to contradict the review.
2. Whilst the term 'value-for-money' is used in the report this is limited to an evaluation of the expenditure under the past programme. It does not incorporate any comparative consideration of the potential alternative uses of future funding by ICSU.
3. A programme, as proposed by the review, focussing on the broad strategic priorities of capacity building and new scientific priorities would not be sustainable on ICSU 'core' funding alone. However, these were areas where working closely with UNESCO could have considerable added value. The interest of UNESCO in such a programme should be investigated further.
4. In the absence of any additional external funding, a more limited amount of ICSU 'core' funding could be used in a more directed way to involve Members in specific topic areas, such as hazards or human health. The smaller the amount of funding available, the more precise the focus of its distribution should be.
5. The smaller the amount of available funding the larger the relative cost of maintaining a response-mode grants programme, in terms of administration and management, for the Secretariat and CSPR.
6. The views of the Membership on the priority that should be attached to a grants programme, as proposed by the review, versus other uses for ICSU 'core' funding are critical. In this regard the very poor response of the Members and Interdisciplinary Bodies to the request for input to the review was disappointing.

**Decision**

to request the Executive Director to continue negotiations on joint-funding and priorities with UNESCO;  
 to approve draft report for consideration by the Executive Board in the context of ICSU's overall financial situation and the likelihood of UNESCO funding in the future; and,  
 subject to the outcome of the EB discussions, to circulate the draft report and any appropriate explanatory information, to Members for consideration.

**12. Observing systems – GEOSS**

2006 was the first year of implementing the 10-year GEOSS Implementation Plan. The Group of Earth Observations (GEO) established to develop GEOSS has both governmental Members and Participating Organizations. ICSU is a Participating Organization just like the UN system bodies involved. The third GEO Plenary Meeting (Bonn, 28-29 November 2006) approved membership in GEO of DIVERSITAS. IGBP and WCRP have been Participating Organizations since 2003. The ICSU delegation also included a representative of COSPAR.

The GEO Plenary has established four Committees (Architecture and Data; Capacity Building, Science & Technology, and Outreach). The Science and Technology Committee, co-chaired by the European Commission, Germany, South Africa and ICSU (the Executive Director), held its second meeting in Bonn on 30 October. At this meeting the Committee focused its discussions on the outline of a document entitled "The role of S&T in GEOSS". A meeting of the lead authors of the document took place at ICSU Paris on 2 February 2007. CSDP was informed about the main outcome of these meetings.

**Decision:**

To note developments of the GEOSS S&T Committee.

**13. Commission on Sustainable Development (CSD)**

CSD 14/15 (2006-2007) focuses on the topics of energy, air pollution/atmosphere, climate change, and industrial development. In its role as the co-organizer of the Scientific & Technological Community 'Major Group', ICSU submitted suggested Priorities for Action as input to CSD15.

The focal topics for CSD 16/17 (2008-2009) are agriculture, rural development, land, drought, desertification, and regional focus on Africa. Following a recommendations from 12<sup>th</sup> CSDP meeting, the Secretariat plans to convene a small advisory group to help with preparations for this round of meetings. A list of tentative names was discussed, and suggestions for additional members were offered.

**Decision**

To note developments in the preparation for the future CSD meetings.

## 14. Hazards

The ICSU Planning Group appointed by the CSPR and charged with the planning of a major new ICSU initiative on “Natural and Human-Induced Environmental Hazards and Disasters” has now held two meetings: the first in Paris on 20-21 June 2006 established the draft structure of the Group’s report, and drafting responsibilities were assigned in the framework of the report’s five main themes.

A second meeting was held on 23-25 January 2007, at which a draft preliminary report was reviewed and reworked. After extensive discussions the Group decided to revise the structure of the report; it will now propose a research programme made up of three Core Projects plus two major cross-cutting themes. Drafting groups have been allocated responsibilities and writing is moving ahead. On 23 March 2007 the revised text of the Report will be sent out for review to ICSU Members, Interdisciplinary Bodies, and partner organizations. A third and final meeting of the Planning Group is foreseen for 22-23 May 2007, at which the report will be finalized for submission to the CSPR in July, well ahead of the latter’s September 2007 meeting.

CSPR once again stressed the importance of focus within the proposed programme, and of establishing its uniqueness – the identification of areas in which ICSU can bring something new and valuable to the field of hazards and disaster management. The report needs to clearly identify the programme’s target audience, and its level of approach. The private sector (especially at multinational level) was considered to be important player and stakeholder in any initiative on disaster management. In this context, the meeting was informed of the interest already shown by the insurance industry.

The ICSU Regional Committees for Africa, Asia and the Pacific and Latin America and the Caribbean have each identified hazards as an initial priority and are at various stages of planning and preparation of regional initiatives. The importance of complementarity between the global and regional programmes was underlined.

<p><b>Decision</b></p>
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<p>To note progress in the planning process.</p>
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## 15. Human Health

At its meeting in February 2006, CSPR approved the establishment of an *ad hoc* Scoping Group on Human Health, under the Chairmanship of Dai Rees (ex-CSPR and UK). The Group met for the first time on 29-30 June and reached the preliminary conclusion that ICSU might work with its Members and other stakeholders to promote a systems analysis approach to complex population health problems. ‘Urbanization’ was proposed as an initial demonstration theme that would combine many of the current interests of ICSU’s Unions and Interdisciplinary Bodies. CSPR considered the interim report from the Scoping Group at its last meeting and expressed general support, as well as raising a number of concerns that were fed-back to the Group (see CSPR13.3.1, item 7).

The Scoping Group held its second meeting on 30-31 January. Additional expertise in systems analysis (L MacKellar, IIASA) and population health (A Haines, LSHTM)

has been invited for this meeting. A revised, but not fully complete, draft report was provided for consideration by CSPR, following the meeting. The chair of the Scoping Group, Dai Rees, joined CSPR for discussion of this report

CSPR was asked to consider the draft report from the Scoping Group. It was agreed that the issues raised at the previous CSPR meeting had largely been addressed: the audience was clear as was the definition of systems analysis and the proposed first steps to take this forward. It was noted that this was a scoping report and not a full science plan and in that context the Group had identified an important niche for an ICSU initiative. There remained some concern as to the complexity of the urban environment but it was recognised that this was a topic of increasing importance for all regions of the World. The eventual choice of cities and identification of the local policy audiences for those cities would be critical.

**Decision**

To approve draft report, subject to finalising by the Scoping Group, for distribution to the ICSU Membership in order to solicit their views; and, to recommend to the Executive Board that, subject to the support of Members, the resources be provided to establish a Planning Group to further develop a programme as described in the scoping report.

**16. Review Status of ICSU Strategic Plan**

CSPR concluded with a discussion of the status of implementing the ICSU Strategic Plan, reviewing the implementation matrix. Members expressed satisfaction with the overall progress in carrying forth the goals of the Strategic Plan, but expressed concerns about a few key challenges, namely:

- ensuring that the ICSU Unions feel a true sense of ownership of, and engagement in, the Strategic Plan and its implementation;
- ensuring that the ICSU Secretariat has financial and human resources commensurate with the magnitude of challenges involved in implementing the strategic plan; and
- ensuring that there is coherence between the global-level ICSU efforts and the activities of the Regional Offices

**Decision**

To note progress in the implementation of the Strategic Plan, and encourage continued focus on the challenges noted above.

**17. Any other business**

**Decision**

To note that the next CSPR meeting is scheduled for 14-15 September 2007; to tentatively agree on 14-16 February 2008 as the subsequent meeting date (to be considered further before finalizing), possibly to be held in one of ICSU's regional offices; and to recommend that the Executive Board start the process of recruiting an Executive Director in order for him/her to be in place before the end of 2008, when Thomas Rosswall retires.

27 March 2007

Khotso Mokhele  
Vice President for Scientific  
Planning and Review

Thomas Rosswall  
Executive Director, ICSU

**Annex 1: Approved membership of SCID**

<b>Name</b>	<b>Primary expertise</b>	<b>Additional Expertise</b>	<b>Nationality</b>	<b>YOB</b>	<b>Gender</b>	<b>M</b>
Roberta BALSTAD	Social science	Data management	USA		F	C
Nicole CAPITAINE	Astronomy	space geodesy	France	1948	F	F
Michael DIEPENBROEK	Geology	Computer science	Germany	1955	M	V
Kim FINNEY	Oceanography	Antarctic data	Australia		F	II
Peter FOX	Mathematics	virtual observatories	Australia/USA	1959	M	e
Alexi GVISHIANI	Geophysics	mathematics	Russia	1948	M	C
Ray HARRIS [chair]	Geography	remote sensing	UK		M	S
Toshio KOIKE	Engineering	hydrology, remote sensing	Japan	1956	M	C
Bernard MINSTER	Geophysics	mathematics	USA/France	1947	M	V
Ruth NEILAN	Engineering	Geodesy	USA	1954	F	F
Ray NORRIS	Astronomy	Computing	Australia/UK	1953	M	C
Alejandro PISANTLY	Computer Science		Mexican			A C
Daisy SELEMATSELA	Information Science	social science	South Africa	1966	F	C &

**Annex 2: Approved membership of WCRP and IGBP review panels****WCRP**

	<b>Name</b>	<b>Nominated by</b>	<b>Field of Expertise</b>	<b>Year of Birth</b>	<b>Country of Employment</b>	<b>Nationality</b>	<b>Gender</b>
**	<i>Gadgil, Sulochana</i>	<i>WCRP</i>	<i>agriculture / meteorology</i>	<i>1944</i>	<i>India</i>	<i>Indian</i>	<i>F</i>
	<i>Haymet, Tony</i>	<i>WCRP</i>	<i>chemistry</i>	<i>1956</i>	<i>USA</i>	<i>Australian</i>	<i>M</i>
	<i>Joussaume, Sylvie</i>	<i>IGFA (France)</i>	<i>climate modelling (paleo climate)</i>	<i>1958</i>	<i>France</i>	<i>French</i>	<i>F</i>
	<i>Kondo, Hiroki</i>	<i>WCRP</i>	<i>climate modelling (fluid dynamics)</i>	<i>1941</i>	<i>Japan</i>	<i>Japanese</i>	<i>M</i>
	<i>Moura, Antonio Divino</i>	<i>WMO</i>	<i>climate modelling (climate prediction)</i>	<i>~1950</i>		<i>Brazilian</i>	<i>M</i>
	<i>Qin Dahe</i>	<i>WMO</i>	<i>glaciology</i>	<i>1947</i>	<i>China</i>	<i>Chinese</i>	<i>M</i>
*	<i>Rapley, Chris</i>	<i>ICSU</i>	<i>remote sensing</i>	<i>1947</i>	<i>UK</i>	<i>UK</i>	<i>M</i>
	<i>Smith, Neville</i>	<i>WCRP</i>	<i>ocean modelling</i>	<i>1951</i>	<i>Australia</i>	<i>Australian</i>	<i>M</i>
	<i>Watson, Robert</i>	<i>WCRP</i>	<i>environmental assessment/ policy</i>		<i>USA</i>	<i>American</i>	<i>M</i>

**IGBP**

	<b>Name</b>	<b>Nominated by</b>	<b>Field of Expertise</b>	<b>Year of Birth</b>	<b>Country of Employment</b>	<b>Nationality</b>	<b>Gender</b>
	<i>Carabias, Julia</i>	<i>IGBP</i>	<i>environmental conservation / policy</i>	<i>1954</i>	<i>Mexico</i>	<i>Mexican</i>	<i>F</i>
	<i>Cox, Peter</i>	<i>IGFA (UK/NERC)</i>	<i>climate modelling (carbon cycle)</i>		<i>UK</i>	<i>British</i>	<i>M</i>
**	<i>Gadgil, Sulochana</i>	<i>WCRP</i>	<i>agriculture-meteorology</i>	<i>1944</i>	<i>India</i>	<i>Indian</i>	<i>F</i>
	<i>Hoskins, Brian</i>	<i>WCRP</i>	<i>meteorology/ climatology</i>	<i>1945</i>	<i>UK</i>	<i>British</i>	<i>M</i>
	<i>Ikeda, Motoyoshi</i>	<i>IGBP</i>	<i>oceanography/ Ecosystem modelling</i>	<i>1941</i>	<i>Japan</i>	<i>Japanese</i>	<i>M</i>
	<i>Jaeger, Carlos</i>	<i>ICSU</i>	<i>economics/ human ecology</i>	<i>~1950</i>	<i>Germany</i>	<i>German</i>	<i>M</i>
*	<i>Lubchenco, Jane</i>	<i>ICSU</i>	<i>marine ecology</i>	<i>1947</i>	<i>US</i>	<i>American</i>	<i>F</i>
	<i>Niang, Isabelle</i>	<i>IGBP</i>	<i>coastal management/ geology</i>	<i>1954</i>	<i>Senegal</i>	<i>Senegalese</i>	<i>F</i>

<i>Rodhe, Henning</i>	<i>IGBP</i>	<i>Climate / biogeochemistry</i>	<i>1941</i>	<i>Sweden</i>	<i>Swedish</i>	<i>M</i>
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