



Regional Office for Asia and the Pacific

Annual Report 2010

Strengthening international science
for the benefit of society

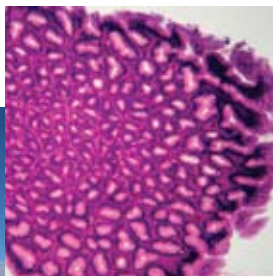


ICSU

International Council for Science

ICSU ROAP Vision

The long-term ICSU vision is for a world where science is used for the benefit of all, excellence in science is valued and scientific knowledge is effectively linked to policy-making. In such a world, universal and equitable access to high quality scientific data and information is a reality and all countries have the scientific capacity to use these and to contribute to generating the new knowledge that is necessary to establish their own development pathways in a sustainable manner.



Message from the Director



The year has been challenging with many activities completed. At the international level we raised our profile in Cambodia, Thailand, Vietnam and Australia. We also enhanced our links with national and international organizations such as the UNESCO office in Phnom Penh, the United Nations Environment Program Regional Office for Asia and the Pacific (UNEP/ROAP) in Bangkok, and with our national members in Australia (Australian Academy of Science AAS), and Thailand (National Research Council of Thailand NRCT). We will continue to foster links with other key partners and organizations in the coming years.

The Regional Office represented ICSU at the UNEP Major Group Facilitating Committee Meeting, the UNEP Major Groups and Stakeholder Forum, and the UNEP Governing Council/Global Ministerial Environmental Forum, in Bali, Indonesia in February. We also participated as a co-organizer of the World Conference on Research Integrity that was held in Singapore in June, and in the 30th Food and Agriculture Organization (FAO), Regional Conference for Asia and the Pacific that was held in Gyeongju, Republic of Korea. These meetings have important implications to the growth of many aspects of science in Asia and the Pacific.

The 9th Regional Committee Meeting was held in Kuala Lumpur, Malaysia while the 10th Meeting in Canberra, Australia. Our National Member in Australia, the Australian Academy of Science graciously hosted the 10th Meeting and arranged a very useful forum entitled ICSU and Australian Science. The forum discussed current status of research on sustainability science and on urban health. While in Canberra a memorandum of understanding was signed with the Asian Association of Social Science Research Councils (AASSREC). It is hoped that this will provide the basis for closer collaboration between ICSU ROAP and AASSREC to achieve a more comprehensive perspective of issues related to the inter-linkages between science and society.

The ICSU ROAP Science Planning Group on Health and Wellbeing in the Changing Urban Environment began its work in July and we look forward to producing a comprehensive plan to enhance research on health and wellbeing in urban Asia and the Pacific by June 2011. The plan will focus on regional implementation of the ICSU plan on urban health and wellbeing. It will emphasise the systems approach in addressing urban health issues in the next decade.

We are encouraged that the independent joint review of the Regional Office by the Ministry of Science, Technology and Innovation of Malaysia and ICSU was very positive and assuring about the growth and development of the Office. The review confirmed the positive role ROAP had played in the enhancement of science in Asia and the Pacific and makes concrete suggestions for further development. We look forward to further consolidation of ICSU ROAP in the coming years based on the recommendations of the Review.

Mohd Nordin Hasan

Message from the Chairman

2010 was an important and exciting year for the ICSU Regional Office for Asia and the Pacific and its Regional Committee because of two key events

- The establishment of the Science Planning Group for Health and Wellbeing in the Changing Urban Environment
- The Review of the Office by ICSU and the Ministry of Science, Technology and Innovation of Malaysia

The Science Planning Group for Health and Wellbeing in the Changing Urban Environment was established early in the year and it is exciting because its subject is of vital importance for the Asia Pacific region where urbanisation is growing rapidly, and there are many opportunities to bring science to bear to improve the lot of its inhabitants. Moreover there are important areas of research which, when carried out, will lead to significant improvements in health and wellbeing. In this activity we have the advantage of starting our science planning at the time when the equivalent ICSU planning group is concluding theirs. We are able to build on their work, and concentrate on how to implement it in this region. Implementation will be enhanced by the involvement of stakeholders in the development of the Science Plan.

The Review of the Office was a major activity, for the Office, for the Committee, for the ICSU Secretariat and for the Review Panel. The major findings of the Review were that the ROAP, with its limited resources, has successfully engaged the scientific community involving a core group of National Members from the region, laying the foundation for an effective regional presence of ICSU. The major recommendation was that the ROAP should continue its programme and activities in the region following the current institutional support arrangements. The Panel emphasized that there was much more work to be done in the region. We look forward to the continuation of the Regional Office through 2011 and beyond, with the resources necessary to continue and expand its work.

Committee members Mingsarn Kaosa-Ard, Motonori Hoshi, Kan Zhang and Muhamad Awang completed their terms on the Committee in 2010. I thank them for their hard work for the Committee over the first 5 years of its existence. And I congratulate the Committee Members, the Director and the staff of the Regional Office on their achievements, which were recognised by the Review Panel. I look forward to working with them, the new members of the Committee and the members of the ICSU family in achieving even more in the future.

Bruce J. McKellar



What Have We Been Doing?

DATE	ACTIVITY
20 – 26 Feb	UNEP Major Group Facilitating Committee Meeting; UNEP Major Groups and Stakeholder Forum; UNEP Governing Council/Global Ministerial Environmental Forum, Bali, Indonesia
29 April	ICSU ROAP Occasional Seminar Series : Science to Inspire and to Help Us, Kuala Lumpur, Malaysia
29 – 30 April	9th Regional Committee Meeting, Kuala Lumpur, Malaysia
14 – 16 June	IUMS Outreach Program: Antimicrobial Resistance in Bacteria, Fungi and Viruses Course, Singapore
16 – 17 July	1st Meeting of Science Planning Group on Health and Wellbeing in the Changing Urban Environment, Kuala Lumpur, Malaysia
21 – 24 July	2nd World Conference on Research Integrity, Singapore
2 – 6 August	<p>Bruce McKellar Keynote Address at the Vietnamese National Congress on Theoretical Physics, Ho Chi Minh City, Vietnam.</p> <p>Introductory meetings with government and other agencies in Phnom Penh, Cambodia</p> <p>Courtesy visit to National Research Council of Thailand and introduction to new NRCT Secretary General Professor Dr Soottiporn Chittmittrapap, Thailand</p> <p>Courtesy visit to United Nations Environment Programme (UNEP) Regional Office for Asia and the Pacific, Bangkok, Thailand</p>
9 – 11 August	ICSU ROAP Office Review Site Visit, Kuala Lumpur, Malaysia

23 – 24 August	Preparatory Meeting on the International Partnership for the <i>Satoyama</i> Initiative: Working together for promoting socio-ecological production landscapes Yamanashi Institute of Environmental Science, Fujiyoshida, Yamanashi, Japan
27 September - 1 October	30th FAO Regional Conference for Asia and the Pacific, Gyeongju, Republic of Korea
1 – 2 November	2nd Meeting of Science Planning Group on Health and Wellbeing in the Changing Urban Environment, Xia Men, China
11 – 12 November	10th Regional Committee meeting, Canberra, Australia

What Are We Planning?

Health & Wellbeing in the Changing Urban Environment: A Systems Approach

- 1st Meeting of the Science Planning Group
- 2nd Meeting of the Science Planning Group

Grand challenges for global sustainability research

ICSU foresight analysis



Health & Wellbeing in the Changing Urban Environment: A Systems Approach

1st Meeting of the Science Planning Group



The ICSU ROAP Science Planning Group on Health and Wellbeing in a Changing Urban Environment convened its 1st Meeting on 16 and 17 July 2010 in Kuala Lumpur, Malaysia. The members of the group who attended the meeting were Jaime C Montoya (Philippines), Tony Capon (Australia), Reiko Kishi (Japan), Yong-Guan Zhu (China), Philippa Howden (New Zealand), Indira Nath (India), Mohd Nordin Hasan (Ex-Officio). Bruce McKellar (Chair RCAP) attended as observer as did Tan Sri Shahrizailah Abdullah (Malaysia) who is a member of the Regional Office Review Panel. Indira Nath was elected Chair of the Planning Group.

Health and wellbeing in the changing urban environment was proposed as a new priority area at the 3rd ICSU Regional Consultation held in Penang in October 2009. It aims to dovetail the ICSU global programme on the same subject for which there was already a near final draft plan. The Group is expected to develop an implementation plan for the global plan on health and wellbeing in a changing urban environment that will be applicable in Asia and the Pacific. The group identified the issues considered important in Asia and the Pacific. This would include health issues related to air pollution (indoor & outdoor), water quality, food security and malnutrition, mental health and wellbeing in urban centres, health issues in relation to urban housing design and lay-out, legislation, waste management, sanitation and enhanced mobility and transportation systems.

2nd Meeting of the Science Planning Group



The 2nd Meeting of the Science Planning Group on Health and Wellbeing in the Changing Urban Environment was held in Xiamen, China on the 1 and 2 November 2010. It was hosted by Institute of Urban Environment (IUE), Chinese Academy of Sciences (CAS), China.

The group discussed and further developed the first draft of the science plan. It will take into account the report of the ICSU planning group for an interdisciplinary science plan on health and wellbeing in a changing urban environment that takes a systems analysis approach. It will emphasise the implementation of the global plan taking into account the characteristics of the Asia Pacific region and its priorities. It was acknowledged that the issues to be addressed must be of common concern to a majority of the countries in Asia and the Pacific taking into account the large differences between countries such as that of the Pacific Islands and Iran for example. Countries are also at varying stages of development and income levels are very different. The audience for the Plan would primarily be researchers and research organizations, government decision and policy-makers, and funding bodies. It should outline ways by which research on health in a changing urban environment in the region can be enhanced. The plan is expected to be released in 2011. ROAP is aiming to launch the plan during the 22nd Pacific Science Congress that is being organized by the Academy of Sciences Malaysia in association with the Pacific Science Association, ICSU ROAP, and other organizations.

Grand challenges for global sustainability research

ICSU proposed a focused global initiative in global sustainability research in 2009. The aim is to manage global environmental change that is now underway and cope with the change that we cannot manage. The field of global sustainability research is largely equivalent to earth systems research but with a more explicit recognition of the human dimension. It is driven by a greater sense of urgency for stewardship of the biosphere shaped by humanity. The identification of the challenges involves a global visioning process that included consultations to develop the research strategy, the institutional framework, and a plan to guide the transition from the existing to a new institutional and organizational structure. The task team consists of well-known scientists from around the world. The overarching framework being developed will support integrated science, ensure effective policy impact and communications, support stakeholder engagement, trans-disciplinary research approaches and co-production of knowledge, garner sufficient long-term research funding, and foster collaborative research networks that are truly global in scope.

Characteristics of the initiative

- Focus on global sustainability research
- Cutting-edge network structure
- Built around strong regional nodes
- Active engagement with decision-makers
- Actively engage the full range of disciplines.
- Actively engage young scientists

People leading the initiative

- Johan Rockström (Chair)
- Walt Reid (Chair grand challenge process)
- Anne Whyte
- Heide Hackmann
- Kari Raivio
- John Schellnhuber
- Elinor Oström
- Khotso Mokhele (rotated off in 2009)



ICSU foresight analysis

What will international cooperation in science look like twenty years from now? This is the question the ICSU foresight exercise anticipates to address. Two types of key drivers will cause change in science : those with high uncertainty in their evolution; and megatrends for which the direction of evolution is broadly known. The exercise (diagram below) will explore the potential development of science requiring (large scale) international collaboration, test the role and mission of ICSU and guide its strategic choices, help ICSU Members develop their own strategic activities, and serve as a flagship ICSU product of broad interest. The analysis is being led by ICSU's Committee on Scientific Planning and Review (CSPR) and its foresight Task Team.



ICSU's Foresight Task Team

Roberta Balstad (US)
Lidia Brito (Mozambique)
Michael Keenan (UK)
John Marks (Chair, Netherlands)
Nebojsa Nakicenovic (Austria)
Kari Raivio (Finland)

Reaching Out

Rio+20: Organizing the contribution of the scientific and technological community
IUMS Outreach Programme



Rio+20: Organizing the contribution of the scientific and technological community

The United Nations Conference on Sustainable Development (UNCSD) will be held in Brazil in May 2012. The Conference is referred to in the wider media as Rio+20 or Rio2012. Its main aim is to secure renewed political commitment to sustainable development, assess progress and gaps in implementation of agreed commitments, and address new and emerging challenges. It will have : “a green economy within the context of sustainable development and poverty eradication”, and “the institutional framework for sustainable development” as its main themes.

Much has changed since the Earth Summit of 1992 and although the first decade of the new millennium has given us signs of hope, including the acceleration of development and poverty eradication, adoption of integrated programmes, policies and measures, and emergence of new ideas and leadership, we now live beyond the carrying capacity of the planet, the gap between developed countries and most of the developing countries has further widened, and the persistent poverty of billions of people has begun to threaten the stability of global society.



After playing the pivotal role of providing the science input to two preceeding United Nations Summits on Sustainable Development in 1992 and 2002, ICSU will continue to attach high priority to Rio+20 and lead the organization of the science input. This is to ensure that:

- a) the best available science is integrated into policy development by the Rio+20 Summit, including in a review of progress to date and of remaining gaps in implementing the outcome of previous Summits;
- b) relevant policies developed by the Rio+20 Summit take into account the needs of science for enhanced knowledge generation and for improved harnessing of science and technology for implementing sustainable development policies;
- c) in addressing the science and technology aspects of sustainable development, the Rio+20 Summit will take into account the different science and technology capacities and needs in different regions of the world; and
- d) ICSU acts as the global voice of science during the Rio+20 preparatory process and at the Summit itself.

ICSU will organize four regional workshops on the broad theme of science and technology for sustainable development prior to the respective regional intergovernmental Rio+20 preparatory meetings. ICSU Regional Office for Asia and the Pacific will host the first such workshop in April 2011.

IUMS Outreach Programme

The International Union of Microbiological Societies (IUMS) held its outreach programme to enhance the scientific background and professional effectiveness of basic and applied microbiologists in developing countries, by conducting a course on antimicrobial resistance in bacteria, fungi and viruses. The course was held at the National University of Singapore (NUS) in June. Other than enhancing the capacity of participants the three-day course also aimed to enable the participants to develop a professional network among them and with the instructors. A total of 99 practicing scientists and clinicians from 9 countries participated. The course was financially supported by the International Council for Science (ICSU) through its Small Grants Programme and the Singapore Society for Microbiology & Biotechnology (SSMB). IUMS provided support for the faculty teaching the course.

The topic of "Antimicrobial Resistance in Bacteria, Fungi, and Viruses" was selected for this first IUMS course, since this is a prevalent problem of great importance that often compromises treatment of infections in this region. In addition, the exploration of mechanisms of resistance to antimicrobial agents provides an engaging platform for the education of young scientists in microbiology, epidemiology, pharmacology, biochemistry, molecular biology and genetics. Inquiry about antimicrobial resistance would also inform the study of medical chemistry especially in the search for new agents to replace those that are failing as well as to develop medicinal strategies to overcome existing resistance.



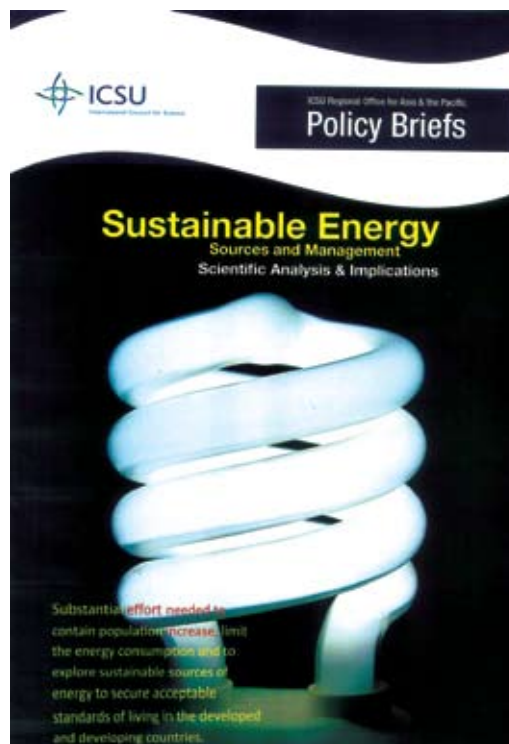
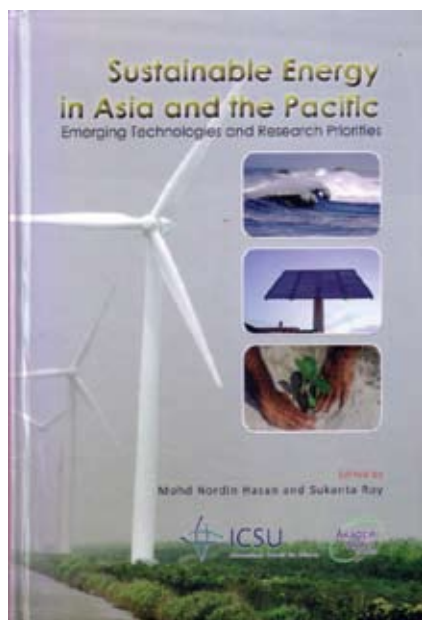
Science for Policy

Publication: Sustainable Energy in the Asia and the Pacific - Emerging Technologies and Research Priorities



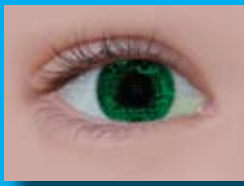
Publication: Sustainable Energy in the Asia and the Pacific - Emerging Technologies and Research Priorities

Sustainable Energy in the Asia and the Pacific: Emerging Technologies and Research Priorities (ISBN978.983-9445-43-5) was jointly published by ICSU ROAP and the Academy of Sciences Malaysia. With the continuing rapid growth in the demand for energy in Asia and the Pacific, the adoption of energy conservation measures as well as of energy efficient technologies will play an increasingly important role in making future energy needs in the region more sustainable. The success of sustainable energy projects and programmes in Asia and the Pacific is also strongly dependent on active promotion and encouragement from all sectors of society including the government agencies, the corporate sector, and non-governmental organizations (NGO). This monograph, written with the non-technical public and the policy community in mind, outlines the regional availability, technologies in current use and emerging technologies, and future research needs related to sustainable energy, in the Asia-Pacific region. It aims to increase awareness of sustainable energy scenarios in the public, corporate and policy communities. Energy sustainability and efficient energy use are vital prerequisites for the achievement of the environmental sustainability objectives of the Millennium Development Goals (MDG).



Science for Everyone

ICSU ROAP Occasional Seminar: Science to Inspire and to Help Us



ICSU ROAP Occasional Seminar: Science to Inspire and to Help Us

Science inspires ordinary people to do extraordinary things. The ICSU ROAP Occasional Seminar Series was held on 29 April 2010 in Kuala Lumpur, Malaysia. This occasional seminar series was initiated with the support of the Open University Malaysia (OUM) and the Academy of Sciences Malaysia (ASM) to highlight research undertaken by the members of ICSU Regional Committee for Asia and the Pacific (ROAP). The seminar was hosted by the Open University Malaysia (OUM). It provided participants with an opportunity to hear from eminent scientists who elaborated their areas of research under the theme “Science to inspire and to help us”. Three speakers from the ICSU Regional Committee for Asia and the Pacific made presentations. Professor Bruce McKellar spoke on “Matter, anti-matter and our existence as stardust”, Professor Jaime Montoya presented preliminary results of his work on “A molecular epidemiologic analysis of tuberculosis in different populations at risk in the Philippines” and Professor Motonori Hoshi explained “Making asexuals sexual in the planarians”.

Participants were able to reach out to the presenters after the seminar to open up the world of science. Some established contacts with the presenters and other members of the ICSU Regional Committee for Asia and the Pacific for future networking. The ICSU mission is to strengthen science for the benefit of society.



Best Behaviour in Science

2nd World Conference on Research Integrity



2nd World Conference on Research Integrity

ICSU (represented by the ROAP) was a co-organizer of the 2nd World Conference on Research Integrity held in Singapore on 21 to 24 July 2010. The main issues discussed were:

- Essentials of research integrity focussing especially on the question of how researchers behave and why;
- Self vs. government regulation especially on national and institutional efforts to promote integrity in research; and
- Global cooperation and actions in addressing integrity at a global level.

More than 230 participants from 59 countries attended the conference. Major challenges on a global code of conduct for research, international standards for editors and authors of scientific publications, and possible guidelines for national research integrity structures were also debated. A Singapore Statement on research integrity that sought to encourage the development of unified policies, guidelines and codes of conduct, with the long-range goal of fostering greater integrity in research worldwide was drafted.

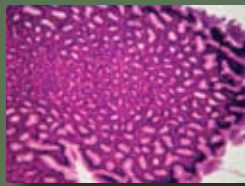


Science in The Region

Cambodia

National Research Council of Thailand (NRCT)

UNEP Regional Office for Asia and the Pacific

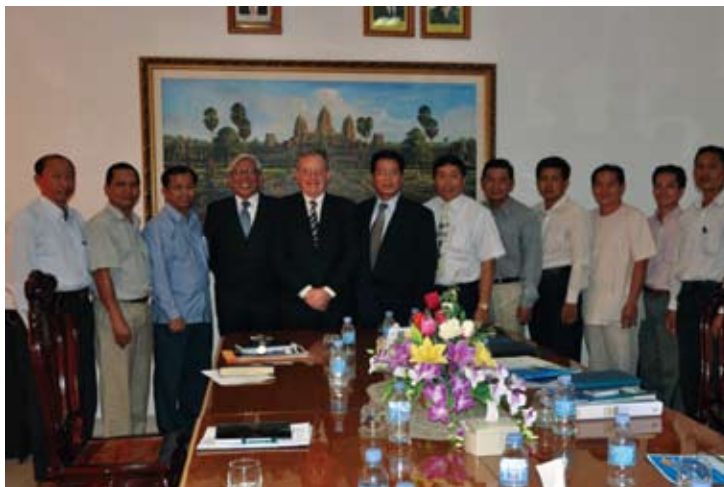


Cambodia

The Chair and Director visited Phnom Penh, Cambodia in August and made visits to the

- Ministry of the Environment
- Ministry of Industry, Mines and Energy
- Phnom Penh Office of UNESCO
- Royal University of Phnom Penh
- Royal Academy of Cambodia
- Cambodia Development Research Institute (CDRI)

Cambodia does not have a Ministry of Science and is not yet a member of ICSU. Many of the organizations visited expressed interest to be better informed of ICSU's activities. The ministries, Royal Academy, and Royal University of Phnom Penh expressed interest in becoming affiliated to ICSU. The possible membership of Cambodia was keenly discussed at all the institutions visited.



National Research Council of Thailand (NRCT)

The new Secretary General of the National Research Council of Thailand (NRCT), Professor Soottiporn Chittmitrapap, warmly welcomed the Chair and Director who congratulated him on his appointment. NRCT has been actively involved in the activities of ICSU ROAP since its establishment and it hosted the Third Meeting of the Regional Committee for Asia and the Pacific, and the 2nd ICSU Regional Consultation in Asia and the Pacific in 2007. The courtesy visit made it possible for ROAP to be informed of the strategic plans of the NRCT and for Professor Chittmitrapap to meet with the Chair and Director and learn of on-going activities at ICSU ROAP.



UNEP Regional Office for Asia and the Pacific

The new Regional Representative of the UNEP Regional Office for Asia and the Pacific that is based in Bangkok, Dr Young-Woo Park met with the Chair and Director, and drew attention to the emphasis in the UNEP programme on Science Based Policy Making. UNEP has on-going programmes on climate change, governance, disasters and risk management, ecosystem management, hazardous waste management and efficient resource use.

There is considerable overlap between the programs of the UNEP ROAP and that of ICSU ROAP and UNEP expressed interest in using the ICSU ROAP as lead organization for the identification of peer reviewers for UNEP projects proposals. UNEP was assured of ICSU ROAP cooperation in this and both parties agreed to work more closely in future.



These visits suggest that much of the work of national and international organisations in the region has overlaps with the priority areas of ICSU ROAP and that it was important to include scientists from non-member countries in the ICSU ROAP database as a means for ensuring that they become networked into the regional and global scientific community. Non-member countries should also be encouraged to participate in ICSU ROAP initiatives, and workshops. The clear hope is that they will become members of ICSU. ROAP will encourage application for Associate Membership to formalise this.

ICSU Governance & Policies

Review of ICSU Regional Office for Asia and the Pacific

9th Meeting of ICSU Regional Committee for Asia and the Pacific

10th Meeting of ICSU Regional Committee for Asia and the Pacific

ICSU and Australian Science



Review Of ICSU Regional Office for Asia and the Pacific

The year was marked by a significant milestone in the history of ROAP when the independent joint ICSU-MOSTI Review of the Office was conducted by a panel of international experts from France, Sweden, Sri Lanka, and Malaysia. The Review Panel had discussions over two meetings, an initial meeting in June 2010 in Paris, and a site visit in August to Kuala Lumpur. In the first meeting the Panel reviewed its Terms of Reference (ToR), considered and analysed information gathered from an online consultation and reviewed reports submitted by the Director of the Regional Office and the Chair of the Regional Committee together with other key documents provided by the ICSU Secretariat and the Regional Office.

At its first meeting the Panel received oral briefings from the Director of the regional Office and the Chair of the Regional Committee via video conference. At the site visit in Kuala Lumpur the Panel received further inputs from the Director of the Regional Office and the Chair of the Regional Committee, met with representatives of the Academy of Sciences Malaysia (ASM), and visited the Regional Office. The Panel also held a series of meetings and telephone conference interviews with representatives of the Malaysian Government, the Ministry of Science, Technology and Innovation (MOSTI), some of the regional partners of the Office, and one of the members of the Regional Committee. The Panel's draft report and recommendations were completed in Kuala Lumpur and later refined through electronic communication.

The Panel noted with satisfaction that ROAP, with its limited resources, has successfully engaged the scientific community involving a core group of National Members from the region. It has had the strong support of both the main parties to the Agreement, namely ICSU and the Government of Malaysia (represented by the Ministry of Science, Technology and Innovation, and the Academy of Sciences, Malaysia) and has developed a range of concrete initiatives. This included

- a) regional consultations that led to the development of Science Plans and related action plans in priority areas of research relevant to the region;
- b) networking and communication links including web-based information dissemination; and
- c) held occasional scientific seminars and capacity building programmes.

Collectively these initiatives laid the foundation for an effective regional presence in ROAP to provide the bridging link between ICSU and its members from the region.

According to the Panel the ICSU Regional Office for Asia and the Pacific (ROAP) has an important role to play in the region and it recommended to ICSU and the Government of Malaysia that ROAP should continue its programme and activities in the region following the current institutional support arrangements.

The Panel also made the specific recommendations to strengthen and further improve the performance of ROAP that included the following:

- a) To complete the database of experts and regional research infrastructure and making sure that it is compatible with similar initiatives at ICSU, while also making optimal use of the data banks of the Scientific Unions and Interdisciplinary Bodies;
- b) To review the composition of the Regional Committee for Asia and the Pacific (RCAP) so as to include also representatives of the ICSU Scientific Unions and non-member countries from the Region;
- c) To utilise the RCAP members and meetings to engage with the least developed countries and ICSU non-member countries;
- d) To leverage on the presence of developed countries within the region to promote strategic alliances and/or smart partnerships with developing and least developed countries of the region to further the development and strengthening of science in the context of regional priorities; and
- e) To review the Memorandum of Agreement so as to further streamline governance related aspects for greater effectiveness and efficiency of ROAP.



9th Meeting of ICSU Regional Committee for Asia and the Pacific



The 9th Meeting of ICSU ROAP Regional Committee for Asia and the Pacific (RCAP) was convened in Kuala Lumpur, Malaysia on 29 and 30 April 2010. Eleven members attended the meeting. The Committee congratulated Prof. Zakri A. Hamid (Executive Board liaison) on his appointment as the Science Adviser to the Government of Malaysia. Preparations for the review of ROAP were finalised and a site visit by the review panel was scheduled in August 2010.

10th Meeting of ICSU Regional Committee for Asia and the Pacific



The Australian Academy of Sciences (AAS) hosted the 10th Meeting of ICSU Regional Committee for Asia and the Pacific that was held in Canberra, Australia on 11 – 12 November 2010. Ten Committee members attended. Mike Dopita, Nancy Pritchard and Connie Berridge from AAS and Micheal McManus from the International Union of Toxicology (IUTOX) attended as observers. John Beaton, Secretary General of The Association of Asian Social Science Research Councils (AASSREC) also participated in parts of the meeting and signed the memorandum of understanding (MoU) between ICSU and AASSREC.

The Chair congratulated the Director and the staff of the Office and the Committee on the excellent outcome from the Review of the Office by the independent review panel appointed by the Ministry of Science, Technology and Innovation (MOSTI) Malaysia and ICSU. The regional committee members agreed on the progress and future activities of ICSU ROAP discussed during the meeting.

ICSU and Australian Science

A short symposium “ICSU and Australian Science” was held in conjunction with the eleventh meeting of RCAP, allowing a discussion of aspects of ICSU’s work with Australian experts in the field. We were pleased that the Australian Chief Scientist, Penny Sackett, was able to attend.

There were three themes:

- 1 Sustainability Science
- 2 Health and Wellbeing in the Urban Environment
- 3 Foresight Analysis

The ICSU priorities on Sustainability and on Urban Health, were also significant priorities for Australian Science. The ICSU perspective on Sustainability Science was presented by Deliang Chen, and 3 Australians presented different aspects of Australian work in the field. Jaime Montoya explained the work of our regional science planning group on Health and Wellbeing in the Changing Urban Environment, and 4 Australians presented aspects of Australian work in the field.

The very different ICSU and Australian approaches to a foresight analysis were explained by Deliang Chen and Penny Sackett.

Each session of presentations generated a lively and enlightening discussion.

With such overlapping interests we have much to gain from the involvement of Australia in regional activities.



ICSU in Asia and the Pacific

Regional Committee for Asia and the Pacific

Regional Committee for Asia and the Pacific 2010



Regional Committee for Asia and the Pacific

Three members of the Regional Committee rotated off at the end of 2010. They are:

- Professor Motonori Hoshi, Open University, Japan
- Professor Zhang Kan, Chinese Academy of Sciences
- Professor Mingsarn Kaosa-ard, University of Chiang Mai

The Executive Board of ICSU agreed to the appointment of four new members beginning in 2011. They are:

- Prof Dr. Soottiporn Chittmittrapap, National Research Council of Thailand
- Prof Javed Iqbal, Institute of Life Sciences, Hyderabad
- Professor Toshio Yamagata, University of Tokyo
- Prof Jianxin Zhang, Chinese Academy of Sciences

Members of the ICSU Regional Committees are leading scientists appointed to serve in their individual capacity.



ICSU Regional Committee for Asia and the Pacific 2010

**Prof Bruce Harold John Mckellar
(Chair) (2009- 2011)**

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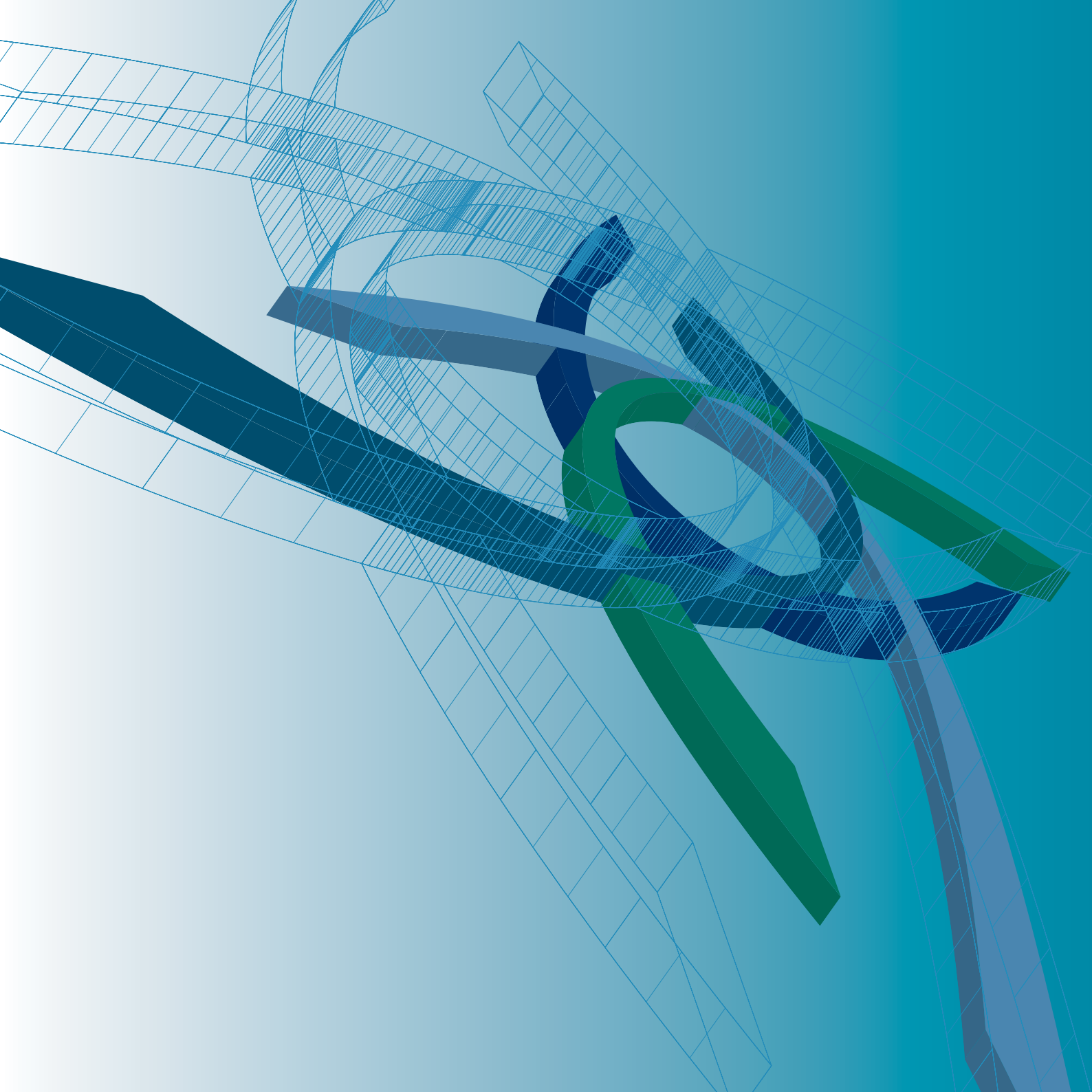
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Financial Summary



INCOME	MYR	EUR
<u>Annual Grants</u>		
Malaysian Government	498,000.00	99,600.00
ICSU - PARIS	170,611.00	34,122.00
Sub Total	668,611.00	133,722.00
<u>Other Income</u>		
Balance b/f 2009	78,092.13	15,618.40
Reimbursements	41,404.76	8,280.95
Sub Total	119,496.89	23,899.35
TOTAL INCOME	788,107.89	157,621.35
EXPENDITURE	MYR	EUR
Emolument	297,715.05	59,543.00
Communications & Utilities	29,816.00	5,963.20
Supplies/other materials	8,865.00	1,773.00
Maintenance/repairs	2,456.00	491.20
Services	4,283.00	856.60
Meetings/Consultations & Activities expenditure	428,676.02	85,735.20
Total Expenditure	771,811.07	154,362.00
BALANCE C/F TO 2011	16,296.82	3,259.35
EUR1.00 : RM5.00		

Membership of ICSU



National Members

ICSU's National Members provide input, from a national, multidisciplinary perspective, on priority areas for future ICSU activities. They also play an important role in facilitating links with national governments and science agencies. The majority of ICSU National Members are scientific academies, although some are national funding agencies or other nationally representative science bodies. The following list includes full Members, Scientific Associates*, and Observers**. Pacific Islands includes Cook Islands, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu and Vanuatu.

Argentina	Guatemala*	New Zealand	USA
Armenia	Hungary	Nigeria	Uruguay**
Australia	India	Norway	Uzbekistan
Austria	Indonesia	Pacific Islands****	Vatican City State
Azerbaijan**	Iran	Pakistan	Venezuela**
Bangladesh	Iraq	Panama	Vietnam**
Belarus**	Ireland	Peru	Zambia
Belgium	Israel	Philippines	Zimbabwe
Bolivia	Italy	Poland	
Botswana	Jamaica	Portugal	
Brazil	Japan	Romania	
Bulgaria	Jordan*	Russia	
Burkina Faso*	Kazakhstan*	Rwanda	
Cameroon	Kenya	Saudi Arabia	
Canada	Korea (DPR) **	Senegal	
Caribbean*	Korea, Rep. of	Serbia	
Chile	Latvia	Seychelles	
China: CAST	Lebanon	Singapore	
China: Taipei	Lesotho	Slovak Republic	
Colombia	Lithuania	South Africa	
Costa Rica**	Luxembourg	Spain	
Côte d'Ivoire*	Macedonia	Sri Lanka	
Croatia	Madagascar*	Sudan	
Cuba	Malawi	Swaziland	
Czech Republic	Malaysia	Sweden	
Denmark	Mauritius	Switzerland	
Egypt	Mexico	Tajikistan**	
Estonia	Moldova**	Tanzania	
Ethiopia	Monaco	Thailand	
Finland	Mongolia	Togo	
France	Montenegro	Tunisia*	
Georgia*	Morocco	Turkey	
Germany	Mozambique	Uganda*	
Ghana	Nepal	Ukraine	
Greece	Netherlands	United Kingdom	

Scientific Unions

- International Astronomical Union (IAU)
- International Brain Research Organization (IBRO)
- International Geographical Union (IGU)
- International Mathematical Union (IMU)
- International Union for Quaternary Research (NQUA)
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- International Union of Anthropological and Ethnological Sciences (IUAES)
- International Union of Biochemistry and Molecular Biology (IUBMB)
- International Union of Biological Sciences (IUBS)
- International Union of Crystallography (IUCr)
- International Union of Food Science and Technology (IUFoST)
- International Union of Forest Organisations (IUFRO)
- International Union of Geodesy & Geophysics (IUGG)
- International Union of Geological Sciences (IUGS)
- International Union of the History and Philosophy of Science (IUHPS)
- International Union of Immunological Society (IUIS)
- International Union of Materials Research Societies (IUMRS)
- International Union of Microbiological Societies (IUMS)
- International Union of Nutritional Sciences (IUNS)
- International Union for Pure and Applied Biophysics (IUPAB)
- International Union of Pure and Applied Chemistry (IUPAC)
- International Union of Pure and Applied Physics (IUPAP)
- International Union for Physical and Engineering Sciences in Medicine (IUPESM)
- International Union of Pharmacology (IUPHAR)
- International Union of Physiological Sciences (IUPS)
- International Union of Psychological Sciences (IUPsyS)
- International Union of Soil Sciences (IUSS)
- International Union of Theoretical and Applied Mechanics (IUTAM)
- International Union of Toxicology (IUTOX)
- Union Radio Scientifique International (URSI)

ICSU Interdisciplinary Bodies

The Interdisciplinary Bodies bring together different scientific disciplines to address scientific issues of international relevance that are of interest to ICSU Members. Some of these bodies are co-sponsored with other organisations.

THEMATIC BODIES

- Committee on Space Research (COSPAR)
- Integrated Research on Disaster Reduction (IRDR, with ISSC and UN ISDR)
- Programme on Ecosystem Change and Society (PECS, with UNESCO)
- Scientific Committee on Antarctic Research (SCAR)
- Scientific Committee on Oceanic Research (SCOR)
- Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)

GLOBAL ENVIRONMENTAL CHANGE PROGRAMMES

- DIVERSITAS: an International Programme of Biodiversity Science (with UNESCO, IUBS, IUMS, and SCOPE)
- International Geosphere-Biosphere Programme (IGBP)
- International Human Dimensions Programme on Global Environmental Change (IHDP, with ISSC)
- World Climate Research Programme (WCRP, with IOC of UNESCO and WMO)

MONITORING/OBSERVATION BODIES

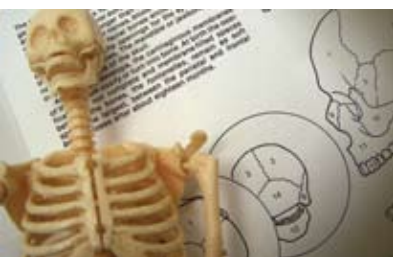
- Global Climate Observing System (GCOS, with WMO, IOC, FAO, and UNEP)
- CSPR21/12.1 CSdrlI 9-2-2011 Draft for consultation 9
- Global Ocean Observing System (GOOS, with WMO, UNEP and IOC)
- Global Terrestrial Observing System (GTOS, with FAO, UNEP, UNESCO and WMO)

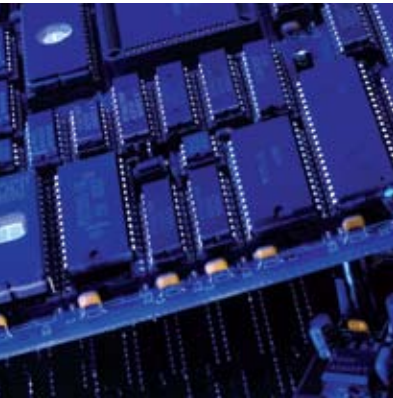
DATA AND INFORMATION BODIES

- Committee on Data for Science and Technology (CODATA)
- International Network for the Availability of Scientific Publications (INASP)
- Scientific Committee on Frequency Allocations for Radio Astronomy and Space Science (IUCAF)
- World Data System (WDC)

Scientific Associates

- The Academy of Sciences for the Developing World (TWAS)
- Academia de Ciencias de América Latina (ACAL)
- Federation of Asian Scientific Academies and Societies (FASAS)
- International Arctic Science Committee (IASC)
- International Association of Hydraulic Engineering and Research (IAHR)
- International Cartographic Association (ICA)
- International Commission for Acoustics (ICA)
- International Commission for Optics (ICO)
- International Council for Laboratory Animal Science (ICLAS)
- International Council for Scientific and Technical Information (ICSTI)
- International Federation for Information Processing (IFIP)
- International Federation of Library Associations and Institutions (IFLA)
- International Federation of Societies for Microscopy (IFSM)
- International Federation of Surveyors (FIG)
- International Foundation for Science (IFS)
- International Institute for Applied System Analysis (IIASA)
- International Union for Vacuum Science, Technique and Applications (IUVSTA)
- International Water Association (IWA)
- Pacific Science Association (PSA)
- Society for Social Studies of Science (4S)





About ICSU ROAP

The ICSU Regional Office for Asia and the Pacific (ROAP) was inaugurated on 19 September 2006 by the then Deputy Prime Minister of Malaysia, Y.A.B. Dato' Seri Najib Tun Abdul Razak. The office will promote the development of science throughout Asia and the Pacific and help strengthen the voice of developing country scientist in international science. It will also ensure that scientists of the region become involved in those aspects of the ICSU 2006-2011 Strategic Plan that are especially relevant for Asia and the Pacific.

Mission Statement

ICSU mobilizes the knowledge and resources of the international science community for the benefit of society, to:

- **Identify and address major issues of importance to science and society**
- **Facilitate interaction amongst scientists across all disciplines and from all countries**
- **Promote the participation of all scientists in the international scientific endeavour, regardless of race, citizenship, language, political stance or gender**
- **Provide independent, authoritative advice to stimulate constructive dialogue between the scientific community and governments, civil society, and the private sector**



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