



Regional Office for Africa

Annual Report 2012/2013

Strengthening international science
for the benefit of society





ICSU National Members in Africa

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Acronyms

AAAS	American Association for the Advancement of Science	DST	Department of Science and Technology, South Africa
ACCESS	Applied Centre for Climate and Earth Systems Science	GA	General Assembly
AfroMont	Research Network on Global Change in African Mountains	GEC	Global Environmental Change
AICIMO	Scientific Research Association of Mozambique	HartRAO	Hartebeeshoek Radio Astronomy Observatory
AISA	Africa Institute of South Africa	HD	Hazards and Disasters
AMCOST	African Ministerial Council on Science and Technology	HSRC	Human Sciences Research Council, South Africa
AMMA-NET	African Monsoon Multidisciplinary Analysis Network	ICSU	International Council for Science
ASI	African Scientific Institute	ICSU EB	International Council for Science Executive Board
ASSAf	Academy of Science of South Africa	ICSU HQ	ICSU Headquarters
AU	African Union	ICSU RCA	International Council for Science Regional Committee for Africa
CFSSD	Committee on Food Security and Sustainable Development	ICSU ROA	International Council for Science Regional Office for Africa
CNS	Central Nervous System	IDRC	International Development Research Centre
CORDEX	Coordinated Regional Climate Downscaling Experiment	IGFA	International Group of Funding Agencies
CPA	Consolidated Plan of Action	IKS	Indigenous Knowledge Systems
CSE	Centre Suivi de Ecologique	INQUA	International Union for Quaternary Research
CSIR	Council for Scientific and Industrial Research	IOSP	Integrative and Organ Systems Pharmacology
CSPR	Committee on Scientific Planning and Review	IPBES	Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services
DEA	Department of Environmental Affairs, South Africa	ISSC	International Social Science Council
		IUGG	International Union of Geodesy and Geophysics

Acronyms (continued)

IUTOX	International Union of Toxicology	SETI	Science, Engineering, Technology and Innovation
NEPAD	New Partnership for Africa's Development	Sida	Swedish International Development Agency
NMs	National Members	SSEESS	Swedish Secretariat for Environmental Earth Systems Science
NRF	National Research Foundation of South Africa	START	System for Analysis, Research and Training
PAERIP	Promoting African European Research Infrastructure Partnership	SUs	Scientific Unions
RISA	Research and Innovation Support and Advancement	TDR	Tropical Diseases Research
S&T	Science and Technology	TWAS	The Academy of Sciences for the Developing World
SADC	Southern Africa Development Community	UN	United Nations
SAEON	South African Environmental Observation Network	UNECA	United Nations Economic Commission for Africa
SAPECS	South African Programme on Ecosystems and Society	UNEP	United Nations Environment Programme
SASBCP	South Africa Society for Basic and Clinical Pharmacology	UNESCO	United Nations Educational, Scientific and Cultural Organisation
SAUNET	Sustainable Africa University Network	UNISA	University of South Africa
SCOR	Scientific Committee on Ocean Research	WASP	West African Society for Pharmacology
SE	Sustainable Energy	WHO	World Health Organization
		ZAR	South African Rand

ICSU's Mission, Vision and Focal Areas

Message from the Chair of the Regional Committee

Director's Overview

Executive Summary



ICSU's Mission, Vision and Focal Areas

Mission

ICSU endeavours to strengthen international science for the benefit of society. To achieve this, ICSU mobilises knowledge and resources of the international science community 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 - regardless of race, citizenship, language, political stance, or gender - in the international scientific endeavour; and provide independent, authoritative advice to stimulate constructive dialogue between the scientific community and governments, civil society, and the private sector.

Vision and focal areas

The long-term strategic vision of ICSU 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 order to achieve this vision, ICSU developed a second Strategic Plan 2012–2017, which identifies key priorities and associated activities that focus on three areas: International Research Collaboration; Science for Policy; and Universality of Science.

ICSU Regional Office for Africa

The mandate of ICSU ROA is to promote, facilitate and coordinate activities of the ICSU family in Africa, thus fulfilling ICSU's mission of strengthening international science for the benefit of society on the continent. It thrives to ensure that the voice of African scientists influences the international science agenda and that scientists from the region are fully involved in international research programmes and activities guided by regional priorities. The Regional Office endeavours to bring the scientific activities and programmes of the ICSU family closer to the African scientists through collaborative ventures.



Message from the Chair of the Regional Committee



The ICSU Regional Office for Africa (ICSU ROA) located in Pretoria, South Africa, has been organizing several events designed to showcase ICSU's work in strengthening partnerships in international research collaboration, science for policy and advocating the universality of science. The period 2012-2013 has been a banner year marking our collective efforts to strengthen international science for the benefit of society. Already 2012 was marked by the Rio+20 conference and we are all very proud of the role that ICSU played in the formulation of recommendations and that has helped the final declaration emerging from the conference.

The Rio+20 Conference once again reiterated the fact that people are and should be at the centre of sustainable development. The conference placed emphasis on the challenges and opportunities stemming from the Green Economy in the context of sustainable development and for eradication of poverty. The conference underscored the fact that climate issues are cross-cutting and requiring collective action. Climate change could easily become the single-most important development threat facing the human family. It bears noting that Africa is responsible for only 4% of greenhouse gas emissions but will bear the brunt of a changing climate. Agriculture, biodiversity, health, nutrition, disease patterns, water cycles, migration are all issues impacted by climate change.

In line with its strategic objectives, ICSU has embarked in 2013 on two important initiatives Future Earth and IPBES. IPBES proposed to embark on a global assessment of the planet's biodiversity while Future Earth will act as a global platform to deliver on solution-oriented research for sustainability; promote effective interdisciplinary collaboration across the natural sciences; propose timely information for policy-makers; encourage the participation of policy makers, funders, academics, business and industry as well as sectors of civil society in co-designing and co-producing research agendas; knowledge and thereby increase capacity building. This major initiative of ICSU will build on the success of existing global environmental change programmes.

Slowly and surely, civil society as well as the business community is gradually accepting that science and scientists have an important role to play in implementing the socio-economic agenda. Perhaps the biggest catalyst for change has been the increasing awareness that many of the big social and environmental challenges of our age, once seen as obstacles to progress, can become opportunities for innovation and development.

As the world's pre-eminent scientific body, ICSU has a unique role to play in navigating this fast-changing landscape, drawing on its track record of success and positioning itself for the challenges of the 21st century. Our core mission of mobilizing science for society, boosting scientific and participatory collaboration, addressing the gender dimension of science, and providing independent, quality advice to all stakeholders remains as relevant as ever.

Message from the Chair of the Regional Committee (continued)

ICSU is poised strategically to take on these new and emerging challenges both globally and through its Regional Offices. Policy recommendations should integrate the best available knowledge across the natural, social and engineering sciences. Emphasis will constantly be made at strengthening science and technology, which are essential for the implementation of sustainable development policies, programs and projects. These challenges will require new research capacity, especially the involvement of young scientists and scientists from developing countries, and a balanced mix of disciplinary and interdisciplinary research that actively involves stakeholders and decision makers.

ICSU-ROA is committed to meeting the challenges and to further strengthening science for the benefit of the continent.

Ameenah Gurib-Fakim

Chair

ICSU Regional Committee for Africa

Director's Overview



As we write the 8th annual report of the Regional Office for Africa, we look back on a year of great accomplishments. 2012/13 brought with it lots of promise for the implementation of the Office's science plans, which were developed and published in 2007/08. Thanks to ICSU's promotion of inter-regional interactions and those between the regions and the global secretariat; the closer relationships forged with South Africa's Department of Science and Technology and other ICSU ROA partners, a grant from the Swedish International Development Agency (Sida) to ICSU, which was for a 20-month period; top-up funding from the NRF for ICSU ROA to redevelop marketing materials and purchase other equipment lost in the fire in late 2011; as well as African scientists who tirelessly worked with ICSU ROA throughout, to realise Africa's contribution to global scientific development. The year became one of rapid progress, not only in terms of networking and scoping for project implementation on the four priority areas outlined through ICSU ROA's science plans, but also in obtaining the much-needed support for the six ICSU ROA strategic objectives.

Identification and addressing of major science and technology challenges in Africa through planning and coordination of research

A number of scientific workshops were held to plan for project implementation on the ICSU ROA science plans. These were in the areas of global environmental change, hazards and disasters, as well as sustainable energy. Key workshops were hosted by the Asia Pacific and the Latin American and the Caribbean Regional Offices respectively to integrate global and regional plans in hazards and disasters and sustainable energy respectively, to level the ground for regional implementation. ICSU ROA's implementation workshop for hazards and disasters held in Dakar, Senegal, built on the foundation from the Kuala Lumpur workshop and benefitted from the attendance of scientists from the IRDR and the other two Regional Offices. Likewise, the sustainable energy implementation workshop held in Nairobi, Kenya, also benefitted from the prior integration workshop held in Mexico City, and was also attended by scientists from the other two regions. These collaborative processes between Regional Offices have gone a long way in promoting South-South scientific interactions. The Future Earth workshop held in Cape Town in October was the first regional event on this new big initiative and brought with it not only lots of lessons, but also opportunities for regional thinking around a framework for Future Earth in Africa.

The two Swedish Secretariat for Environmental Earth Systems Science (SSEESS) small grants attached to the Sida grant, that were awarded to African consortia working with Swedish scientists, one for Hazards and Disasters and the other for Global Environmental Change, have contributed to planning resources that scientific consortia need to refine their project ideas and proposals.

Director's Overview (continued)

Assisting the ICSU family in planning and implementation of activities on the continent while developing and maintaining links with national, regional and international partners

Much energy was spent in assisting scientific unions who expressed interest in applying for the ICSU small grants to implement activities on the African continent, and this strengthened relationships with this important group. The National and Union members' meeting hosted by ICSU ROA in November 2012 was an initial giant leap towards better communication and consultation with these key ICSU groups. The meeting yielded lots of insights and suggestions that will promote better linkages between the Regional Office and the rest of the ICSU Family in the region.

Facilitation of scientific collaboration and networking as well as free flow of scientists and scientific knowledge across borders within the continent and beyond

The database of African research and academic institutions is at infancy stages but growing, with the Regional Office identifying new institutions with each event involving stakeholders. The database of scientists, stratified according to the four science plans, is also expanding rapidly, with a number of scientists on the list not initially involved at the development of the science plans, back in 2007/08. This brings new and innovative ideas and role players in the implementation of the science plans. It also ensures a broadening of perspectives in the process of addressing Africa's scientific challenges, and makes accessible the best available skills and infrastructure for this purpose. The Science Plan Implementation Steering Committee formed late in the year represents a structured approach to project implementation.

Interactive sessions co-hosted with key ICSU ROA partners like UNESCO, South Africa's Department of Science and Technology and others, as well as fellow Regional Offices over the past year, have facilitated constructive interactions among scientists on various scientific topics.

Encouraging and improving capacity building in Africa

Most prominent among initiatives to build scientific capacity for Africa are the three workshops co-hosted with START in Burkina Faso, Ethiopia and South Africa, as part of the Sida grant to ICSU. A number of African scientists involved in these both contributed to and benefitted through these workshops, which addressed different scientific areas related to ICSU ROA's priorities. ICSU ROA used the opportunity to also involve RCA members in some of these events.

A particular initiative that fully catered for young scientists was the Future Earth Regional Workshop for Africa in Cape Town, thanks to ACCESS, which gave this a true meaning in the form of sponsoring incentives for the young scientists involved. Both UNESCO and the Department of Science and

Director's Overview (continued)

Technology involved ICSU ROA in initiatives targeting women in science, a key area for the Regional Office, but where no projects exist as yet.

Promoting indigenous and traditional knowledge and skills to showcase science that is being conducted in Africa for Africa

The long-awaited book entitled "Chemistry for Sustainable Development in Africa", co-edited by ICSU ROA's own Regional Committee for Africa chairperson, Prof Ameenah Gurib-Fakim, was published by Springer-Verlag Berlin Heidelberg in mid-2012. This represents yet another mechanism for ICSU ROA to bring the application of science closer to the society and to showcase some of the work done by scientists on the African continent.

Production and publication of books on African science received the much-needed boost with a relationship built with the Africa Institute of South Africa (AISA), with whom two books are in process for publication later in 2013 followed by a launch in one of the African countries. AISA's generous funding for this project gave ICSU ROA the flexibility to budget for the launch in its new budget. There are various discussions in process for writing of books on topics like Food and Nutrition Security in Africa, African Indigenous Medical Knowledge and Human Health, and Energy for Sustainable Development. Scientists in the leadership of all these projects have been sponsored by ICSU ROA to attend conferences/workshops to expand their views and networks to make these possible.

Promoting the application of science in policy for development

The application of science to policy remains one of ICSU's, and ICSU ROA's challenging priority areas. It is partly for this reason that ICSU included in its proposal for the Sida grant, a portion to fund its commitments to the sustainable development agenda of the United Nations. The highlight of this commitment was ICSU's organising of the week-long Forum on Science, Technology and Innovation for Sustainable Development at Rio+20, ahead of the Rio+20 Conference on Sustainable Development in Rio de Janeiro, Brazil. ICSU has remained one of the nine major groups defined for this agenda by the UN, and ICSU ROA has been enabled to play this role at continental level by UNECA. This became evident when I was invited to give interventions on the Means of Implementation from a science and technology perspective, both at the Africa Day Roundtable during the Rio+20 Conference, and at UNECA continental events before and after the Rio Conference. This has also been the case at country level in South Africa, mainly through the Department of Environmental Affairs, affirming ICSU ROA's recognition as a key player in bridging the gap between science and policy.

Director's Overview (continued)

The strong relationship built with South Africa's Department of Science and Technology has seen ICSU ROA taking part in debates and resolutions for women in engineering, Africa's science infrastructure, AU/NEPAD Workgroup for revision of the Consolidated Plan of Action and other activities.

To this end, I have no doubt that ICSU ROA still has a long road ahead. It is however, encouraging to see progress in pockets. I would like to profusely thank all partners and members of the ICSU family, without whom none of this would have been possible. Project funding remains the single biggest challenge to our work, but we are trying our best to achieve as much as possible with the funds available to us.

A big thank you to those who have afforded ICSU ROA the opportunity and means to make a difference in Africa, in particular the Department of Science and Technology and the National Research Foundation of South Africa.

Edith Madela-Mntla

Director

ICSU Regional Office for Africa

Executive Summary

ICSU Regional Office for Africa Science Plans

In the 2012/13 financial year, the science plan implementation activities of ICSU ROA were given a tremendous boost by a 20-month Sida grant to ICSU. Global-regional integration workshops were held to develop frameworks to harmonise ICSU's activities on Hazards and Disasters (HD), Global Environmental Change (GEC) and Sustainable Energy (SE) at the global and regional levels. The workshops also discussed common strategies for implementing the ICSU Regional Offices' science plans. The global-regional integration workshop on global environmental change took place in Cape Town, South Africa under the ambit of the Future Earth initiative¹. The African regional implementation workshop on Hazards and Disasters was held in Senegal and it outlined an African framework with envisaged work plans for the implementation of the HD science plan. The framework highlights key international and regional role players, time lines and milestones in the implementation plan of the African region. Research consortia from three of the four regional science plans (SE, HD and GEC) submitted proposals, in collaboration with Swedish scientists, to the SSEESS Research Links Programme for funding. The proposals sought to hold proposal development workshops in the respective areas. Grants were subsequently awarded only to the GEC and HD proposals.

ICSU ROA Book Projects

The second ICSU ROA book, "Chemistry for Sustainable Development in Africa", was published in July 2012, by Springer-Verlag GmbH, Germany. The book, aims to provide an analytical platform to bring the application of Chemistry closer to society and to showcase some of the works done by scientists on the continent. Other planned books on which discussions were held include those on Management of Solid

Waste, Natural and Human-Induced Hazards and Disasters, Global Environmental Change, Nanotechnology, Food and Nutrition Security, and African Indigenous Medical Knowledge and Human Health. These books will be published in collaboration with partners like the Africa Institute of South Africa (AISA), the University of South Africa (UNISA), and the Human Sciences Research Council (HSRC) of South Africa.

Scientific Collaboration and Networking

The Regional Office engaged several partners and networks during the 2012/13 financial year.

The Office, through the invitation by the DST, participated in a pre-meeting Seminar of the Global Diaspora Summit that was held in May 2012 in Johannesburg, South Africa. The Seminar brought together delegates from the public and private sectors as well as civil society organisations, academia and research institutions to deliberate on ways to mobilise, enhance and enable skills engagement of the African Diaspora in Science, Engineering, Technology and Innovation.

ICSU ROA has established a new partnership with the Research Network on Global Change in African Mountains (AfroMont), where the two, in collaboration with other stakeholders will spearhead mountain research in the region.

A 20-month Sida grant to ICSU has enabled ICSU ROA to successfully organise, during the 2012/13 financial year, a regional implementation workshop on HD as well as the Future Earth regional workshop for Africa. These events were attended by renowned scientists from within and outside the continent, ICSU partners as well as representatives from the regional and international organisations. This grant also provided an opportunity for the Office to work with its regional partners such as the Applied Centre for Climate and Earth

¹ <http://www.icsu.org/future-earth>

Executive Summary (continued)

Systems Sciences (ACCESS) and the System for Analysis, Research and Training (START). Three workshops in total were co-hosted with START in Africa.

The Regional Office is also partnering iThemba Labs in a number of collaborative activities, which include the book project on Nanotechnology.

It also worked and shared information with other networks like the South African Programme on Ecosystems and Society (SAPECS), AfroMont, African Monsoon Multi-disciplinary Analysis Network (AMMA-NET), the Departments of Science and Technology (DST), Environmental Affairs (DEA) and Health (DOH) of South Africa.

Partnerships with Inter-Governmental Bodies

ICSU ROA's partnership with NEPAD was up-scaled with the membership of the Office on the Working Group for the Review of the NEPAD Consolidated Plan of Action (CPA) as well as participation in the High Level Panel meeting. The Office participated in several sessions of the CPA review process as well as one High Level Panel meeting.

Fund-raising

The Office was assisted with funding by the Scientific Research Association of Mozambique (AICIMO), the ICSU national adhering body, to hold the 14th Meeting of the RCA in Pemba, Mozambique, in March 2013.

Introduction

Organisation and Governance

Core Activities



Introduction

In furtherance of its mandate to promote advancement of science, engineering, technology and innovation (SETI) for the socio-economic development of Africa, the Regional Office in the year under review, endeavoured to bring the scientific activities of the ICSU family closer to the African scientists through collaborative ventures; building and/or strengthening linkages among African scientists, as well as between these and their counterparts in other parts of the world through strategic networking and collaboration. Engagements between the scientific community and the policy/decision makers in the region were also strengthened further.

The flagship science plans on: (i) Sustainable Energy²; (ii) Health and Human Well-being³; (iii) Natural and Human-induced Hazards and Disasters⁴ and (iv) Global Environmental Change (including Climate Change and Adaptation)⁵ of the Office under which several proposals were developed by consortia continued to receive optimum attention over the period. The 20-month Sida grant to ICSU and its Regional Offices in the 2012/13 financial year has helped with activities to drive the implementation activities of these science plans. This process involved a series of global–regional integration and regional implementation workshops as well as follow up meetings.

The Office, during the financial year, also accomplished a number of activities planned with the ICSU headquarters and other Regional Offices, ICSU Scientific Unions and National Members in Africa as well as other partners and networks. This report gives an account of the activities of ICSU ROA during the 2012/13 financial year as they addressed the key objectives of the Regional Office in particular, and the advancement of science, technology and innovation in Africa in general.

² <http://www.icsu.org/africa/publications/reports-and-reviews/icsu-roa-science-plan-on-sustainable-energy/roa-science-plan-on-sustainable-energy>

³ <http://www.icsu.org/africa/publications/reports-and-reviews/icsu-roa-science-plan-on-health-human-well-being/roa-science-plan-on-health>

⁴ <http://www.icsu.org/africa/publications/reports-and-reviews/icsu-roa-science-plan-on-hazards-disasters/roa-science-plan-on-hazards>

⁵ <http://www.icsu.org/africa/publications/reports-and-reviews/icsu-roa-science-plan-on-global-change/>

Organisation and Governance

ICSU ROA Secretariat

The ICSU ROA Secretariat regained its full complement of five staff at the beginning of the second quarter of the financial year with the assumption of duty of Dr Richard Glover, as the new Programme Specialist responsible for Biological Sciences, and Hazael Naidoo as Administrative Assistant. An International Relations intern was seconded to the Office later in the financial year from the Department of Science and Technology of South Africa, the Office's major financier.



From left: Bongani Mahlalela (Communications Officer); Hazael Naidoo (Administrative Assistant); Richard Glover (Programme Specialist, Biological Sciences); Edith Madela-Mntla (Regional Director) and Daniel Nyanganyura (Programme Specialist, Physics, Mathematics and Engineering Sciences)

ICSU Regional Committee for Africa

The RCA is a strategic scientific body composed of eight statutory appointed renowned scientists from five regions of sub-Saharan Africa (west, central, east and southern Africa, and the Small Island States) and representative of the three major linguistic groupings of Africa (Anglophone, Francophone and Lusophone). Added to these statutory

members are 4 Ex-Officio members, namely: the ICSU ROA Director; the ICSU Executive Director; the representative of the Regional Office's host institution (the NRF) and the representative of the ICSU Executive Board (Annex B).

In line with its mandate, the RCA held two meetings during the financial year. In August 2012, the RCA held its 13th meeting in Pretoria, South Africa, and in March 2013, the 14th meeting in



Pemba, Mozambique. During these meetings, the Committee received and reviewed reports on the accomplished activities of the Office from beginning of the financial year as well as those with the ICSU family and other partners and networks since its previous meeting. It also reviewed the planned operational activities of the Office and provided strategic input. Furthermore, the Office's financial statements, audit reports and Business Plans were reviewed, inputs made and adopted. Both meetings included a one day workshop/seminar (side event) organised by the National Members of the respective countries, for RCA members to interact with local scientists as well as with science, technology and innovation officials. The meeting and side event in Mozambique were co-funded by the government of that country through the Associação de Investigação Científica de Moçambique (AICIMO), the ICSU National member of Mozambique.

Core Activities

Implementation of ICSU ROA Science Plans

The research consortia formed continued to work on realigning and revamping previously developed project proposals from their respective thematic areas to be submitted for funding. These activities have been boosted by the injection of funds from the 20-month Sida grant first implemented in May 2012. A 14-member Science Plan Implementation Steering Committee has been duly constituted, chaired by Prof Hilary Inyang, with definitive Terms of Reference to coordinate the entire process and solicit sound proposals for submission to funders.

ICSU ROA Science Plan on Sustainable Energy

Two proposals on mobilisation of researchers from Malawi, Zambia, Mozambique and Tanzania for an African Bioenergy Research Platform were submitted to SSEESS Research Links Programme in response to a call for proposals. However, these proposals, which were submitted in collaboration with Swedish scientists, were not successful.

ICSU ROA Science Plan on Natural and Human-induced Hazards and Disasters

Five members of the consortium on natural hazards and disasters participated in a Global-Regional Integration Workshop on Natural Hazards and Disasters hosted by the ICSU Regional Office for Asia and the Pacific in Kuala Lumpur, Malaysia, in September, 2012. The workshop sought to harmonise ICSU's global science plan for Integrated Research on Disaster Risk (IRDR) with regional science plans in this area.

An African Regional Implementation workshop on Hazards and Disasters took place in Dakar, Senegal in later September 2012 as a follow up, to establish research teams that will design specific trans-disciplinary and trans-boundary

hazards and disasters projects to be implemented at regional level in collaboration with identified partners. The workshop also sought to outline a framework with envisaged work plans for the implementation of these projects, highlighting the key role players, time lines and milestones. This workshop organised in collaboration with the Centre Suivi de Ecologique (CSE), was attended by geo- and hydro-meteorological hazards and disasters scientists from Africa as well as several others from the other two ICSU Regional Offices and representatives of international and regional organizations.



An ICSU-ROA/Sustainable Africa University Network (SAUNET) joint application for a project planning grant submitted to SSEESS was accepted for funding to organise a workshop to work on the project proposals. The consortium is also working on the publication and launch of a book on hazards and disasters on the continent with sponsorship mobilised through partnership between ICSU ROA and the African Institute of South Africa (AISA).

ICSU ROA Science Plan on Health and Human Well-being

Two different proposals put together by consortium members under this Science Plan and submitted in response to calls from the International Development Research Centre (IDRC), Canada, and WHO/TDR's Regional Office for Africa and the

Core Activities (continued)

SSEES Research Links Programme-Project Planning Grant, respectively were not successful. A third proposal within the framework of post-harvest technologies submitted by another consortium member in conjunction with other African researchers to the African Union Research Grants Open Call for Proposals-2011, had been accepted for funding to the tune of 550,000 Euros, leaving a shortfall of 189,282 Euros for co-funding. Alternative funding sources are being explored to raise this budgetary difference to ensure the successful execution of the project.

ICSU ROA Science Plan on Global Environmental Change (including Climate Change and Adaptation)

A joint proposal on the Impact of Climate Change on Rainfall and Water Resources in sub-Saharan Africa submitted by the ICSU ROA consortium and researchers from Stockholm International Water Institute. This was in response to the SSEES Research Links Programme - Project Planning Grant to address Change in Water Resources due to Climate Change in sub-Saharan Africa, and the proposal has been accepted for funding.

The Office, in conjunction with the ICSU Global Secretariat, organised a Future Earth Regional Consultation Workshop for Africa in Cape Town, South Africa in October/November 2012, funded through the Sida grant to ICSU, with support from the International Social Science Council (ISSC), the NRF and ACCESS. This workshop provided a platform for scientists and other stakeholders working on global and regional environmental change research across disciplines, to discuss and make recommendations for the development and implementation of Future Earth in Africa. Following this workshop, a Future Earth Interim Committee for Africa was set up to formulate a Future Earth Africa agenda taking into account the recommendations of the 2012 workshop as well as the regional priorities.



Capacity Building

RCA Side events

In keeping with ICSU's mission of strengthening international science for the benefit of society, the 13th and 14th RCA meetings held in South Africa and Mozambique respectively each involved a day's side-event at which members interacted



Core Activities (continued)

with scientists, academics and policy makers in the host country. During these side events, presentations were given by major parties involved, followed by dialogues between the Committee members and the delegates, who represented the different institutions including government, academia and research.

For RCA 13, the side event was held at the Hartebeeshoek Radio Astronomical Observatory (HartRAO). This meeting was also attended by Prof Malegapuru Makgoba, the ICSU Vice President for the Committee on Scientific Planning and Review (CSPR), as well as Dr Neville Sweijd from ACCESS and Dr Malik Maaza from NanoAFNet who is based at iThemba Labs in Cape Town. Both of these entities are ICSU ROA partners.

For RCA 14, the side event was a seminar held at the Pemba Beach Hotel and Spa, with Mozambique's science key role players, including high profile representatives from Lurio University, the City of Pemba and Cabo Delgado Province.



Integrative and Organ Systems Pharmacology (IOSP) Workshop on Central Nervous System (CNS) Pharmacology

ICSU ROA provided financial support to the West African Society for Pharmacology (WASP) to organise the Integrative and Organ Systems Pharmacology (IOSP) Workshop on CNS Pharmacology in Abuja, Nigeria preceding the 5th All African Congress on Basic and Clinical Pharmacology in Accra, Ghana in July, 2012. The Office was awarded a certificate of participation.

French Classes for ICSU ROA Staff

In August 2012, ICSU ROA staff commenced a 9-month French course that aims to build their communication capacity in French and facilitate their interaction with scientists and stakeholders from the Francophone zone of the region.

Involvement of young scientists in the Future Earth workshop

A number of young scientists were sponsored to participate in the Future Earth Workshop held in Cape Town, South Africa in October-November 2012. These young scientists, besides interacting and networking with senior scientists, assisted with the operational activities of the workshop such as registration, rapporteuring and operation of audio-visual equipment. The definition of a strategy for early-career scientists was proposed at the workshop with the leadership of ACCESS and a network of young researchers working on global environmental change issues was established following the workshop.

Core Activities (continued)

Publications and General Communication

Publications

ICSU ROA Book Project



As part of its effort to showcase Africa's success stories in different areas, ICSU ROA continued to work on current book projects and initiate new ones. The second ICSU ROA book, "Chemistry for Sustainable Development

in Africa", was published in July 2012, by Springer-Verlag GmbH, Germany. The Regional Office purchased 500 copies, 80 per cent of which was distributed to its partners. The book aims to provide an analytical platform to bring the application of Chemistry closer to society and to showcase some of the works done by scientists on the continent. It is divided into three parts, each addressing a different perspective of Chemistry. It can be ordered online from Springer.⁶

Other books are in the pipeline, mostly in collaboration with reputable organisations and publishers, and address one or more aspects of ICSU ROA's science plans. These include Management of Solid Waste, Natural and Human-Induced Hazards and Disasters, Global Environmental Change, Nanotechnology, Food and Nutrition Security, and African Indigenous African Medical Knowledge and Human Health.

Reports on Workshops/Conferences

The Office organised and co-organised several workshops/conferences during the 2012/13 financial year. These were attended by ICSU ROA staff, African scientists as well as some RCA members as deemed appropriate.

Prominent among these were:

- The Coordinated Regional Climate Downscaling Experiment (CORDEX) workshop co-organised with START in Ouagadougou, Burkina Faso, 28 May-1 June, 2012.
- African Regional Implementation Workshop on Hazards and Disasters held at Dakar, Senegal, September, 2012.
- Future Earth Regional Workshop for Africa held in Cape Town, South Africa, October/November 2012.
- Post-ICSU GA30 National Members and Scientific Unions' Forum held in Pretoria, South Africa, November, 2012.
- AfroMont Mountain Conferences held in Lesotho in August 2012, and Cameroon, January, 2013
- START Workshop on Food Security in an Urbanizing World held in Addis Ababa, Ethiopia, March, 2013
- START Cities at Risk Workshop held in March, 2013 in Durban, South Africa

General Communication

General communication about ICSU ROA activities over the reporting period as usual took the form of publications, public lectures both at regional and international levels, electronic mailing and the interactive website.

Public Lectures

Prof. Hillary Inyang, an ICSU RCA member, represented the Office at a forum organised by the African Scientific Institute (ASI) as part of the Ron Brown Series on Engaging the African Diaspora in Africa's Energy Development at Howard University in September, 2012. Prof. Inyang gave a

⁶ <http://www.springer.com/environment/sustainable+development/book/978-3-642-29641-3>

Core Activities (continued)

presentation titled “ICSU ROA Sustainable Energy Research Plans for Africa”.

Also in September 2012, ICSU ROA participated in a Pan-African Science and Society Meeting held in Cape Town, South Africa. The meeting was, attended by representatives from a number of international organisations that included the American Association for the Advancement of Science (AAAS), TWAS, UNESCO, and the NRF. Daniel Nyanganyura who represented the Office at the meeting gave a presentation titled “Key Research Focus Areas that will Impact on the Socio-economic Development in Africa”.



The Regional Director gave a presentation of ICSU ROA's programme of work and collaboration opportunities, as well as Future Earth, at the plenary session of the 9th Zimbabwean Research Council Symposium held in Harare in February, 2013. This was a high level scientific event in Zimbabwe hosted by the Research Council of Zimbabwe (the ICSU National Member). Scientists from within and outside the country as well as Zimbabwe high-ranking government officials attended the event.

Another presentation was made by Richard Glover on the activities of the Office at the START workshop on Food Security in an urbanizing World in Addis Ababa, Ethiopia (20-22 March, 2013).

The workshop brought together academics, policy researchers and practitioners from Africa, Asia and Latin America. This workshop was also attended by some members of the consortium on Health and Human Well-being as well as Vincent Tanya, a member of the RCA.



A Cities at Risk workshop held in Durban, South Africa, 25-28 March, 2013, attracted participation from scientists, decision makers and practitioners on the continent. This workshop sought to collectively explore and develop sustained efforts to advance research and capacity building on urban vulnerability dynamics and resilience. Welcoming the participants, the Director of ICSU ROA called for a re-examination of approaches to sustain cities in the face of global environmental change, citing the new Future Earth initiative as one of the platforms for opportunities provided to attain this.

The Director was invited to be part of the delegation of the DST to the Promoting African–European Research Infrastructure Partnerships (PAERIP) conference in Brussels, Belgium, held in March 2013. Her presentation was on “Flourishing Africa-EU research infrastructures partnerships in the world of 2030”.

Core Activities (continued)

ICSU Website

The re-launched ICSU website⁷ is designed and managed by the webmaster at the ICSU HQ in Paris. For the African Regional Office, the content management is done by the staff of ICSU ROA. It is updated real-time by the Communications Officer and reviewed by the whole Secretariat weekly at a dedicated meeting. General information about ICSU ROA's activities, the activities of its partners and those of the ICSU Family on the continent are published on the site. The site also carries information from other sources which is relevant to the African scientific community at large, and provides links to the relevant websites. Newsworthy items are regularly posted in time for the deadline of the ICSU Newsletter, edited by staff at the ICSU HQ in Paris.

Electronic mailing

The Regional Office is linked to its partners and networks through a dynamic and extensive electronic mailing system. This system is used to disseminate scientific information, important announcements as well as material from the ICSU Family and partners within and outside the region to the scientific community on the continent.

Marketing the Office

The 2012/13 financial year saw a further boost in activities to market the Office. The flyers, banners, posters and folders of the Office were mostly developed from scratch following a fire that destroyed most of them; thanks to the NRF for carrying this unexpected cost from the balance of the previous financial year. The materials were used to market ICSU ROA at various workshops, conferences and seminars organised/co-organised by the Office.



Scientific Collaboration and Networking

Activities with the ICSU Secretariat and other Regional Offices

Rio+20 Conference

The Director, together with the RCA Chair (as a delegate of UNESCO) attended the UN Rio+20 Conference organised in Rio de Janeiro, Brazil, in June 2012 and participated in the



⁷ <http://www.icsu.org>

Core Activities (continued)

following events: (a) ICSU's Forum on Science, Technology and Innovation, (b) Dialogue on Sustainable Development; (c) United Nations Conference on Sustainable Development (Rio+20). These events provided space for interdisciplinary scientific discussions as well as dialogue between scientists, policy-makers, Major Groups and other stakeholders. The conference itself, served not only to secure renewed political commitment for sustainable development, but also to assess progress to date since the Johannesburg conference of 2002 and the remaining gaps in the implementation of the outcomes of that conference as well as to address new and emerging challenges.

Workshops implemented under the Swedish International Development Agency (Sida) Grant

Sida, as a long-time strategic partner of ICSU ROA, provided much support for the Office's activities during the 2012/13 financial year. A 20-month Sida grant to ICSU enabled the Office to successfully organise two workshops in the last quarter of 2012. These were the African Regional Implementation Workshop on Natural Hazards and Disasters and the Future Earth Workshop for Africa. The Sida grant also supported the organisation of the START workshops on Coordinated Regional Climate Downscaling Experiment (CORDEX) in Ouagadougou, Burkina Faso, 28 May-1 June, 2012, Food security in an urbanizing world in Addis Ababa, Ethiopia from 20 to 22 March, 2013 and the Cities at Risk in Durban, South Africa, 25-28 March, 2013. These workshops were co-organised by ICSU ROA.

Activities of the ICSU Family in Africa

The activities of the ICSU Family on the continent were further promoted and supported during the 2012/13 financial year by the Regional Office. These are some of the highlights:

ICSU Small Grants Programmes

The Office supported the applications of three Scientific Unions: Scientific Committee on Oceanic Research (SCOR), International Union of Geodesy and Geophysics (IUGG), and International Union of Toxicology (IUTOX) for the ICSU Small Grant for 2013. None of these was awarded this time around. However, a grant was awarded to the International Union for Quaternary Research (INQUA) for a project on the Recharge of Large Groundwater Basins, to be implemented in Mozambique in collaboration with AICIMO.

Activities with the Scientific Unions

Fifth All Africa Congress for Basic and Clinical Pharmacology

ICSU ROA supported a delegation of the South African Society for Basic and Clinical Pharmacology (SASBCP) to the Congress in Accra, Ghana in July, 2012. It also provided financial support to the West African Society for Pharmacology (WASP) in organising the Integrative and Organ Systems Pharmacology (IOSP) Workshop on CNS Pharmacology in Abuja, Nigeria, 5-7 July, 2012 prior to the Congress in Ghana.



Core Activities (continued)

Post-GA 30 National Members and Scientific Unions' Forum

ICSU ROA organised an African Post-GA30 Forum in Pretoria, South Africa in November 2012. The Forum was attended by several representatives of African National Members (NMs) and Scientific Unions (SUs) represented in the region. It gave the ICSU NMs and SUs an opportunity to be updated on the activities of the ICSU ROA and also explored ways to foster collaborative activities between the Office and the ICSU Family on the continent. A task team was established to assist the Regional Office in implementing resolutions made at the end of the Forum.



Activities with other Partners and Networks

The Office consolidated its working relationship and collaboration with its traditional partners and networks and also established new ones.

START

Three workshops in total were co-hosted with START, one of ICSU's partners in the implementation of the Sida planning grant. These were:



The Coordinated Regional Climate Downscaling Experiment (CORDEX) workshop organised by START in Ouagadougou, Burkina Faso, 28 May-1 June, 2012, which brought together regional experts in climatology, meteorology, hydrology, agriculture and health, and provided them with an environment to discuss and map ways that would foster collaborative research between regional institutions and networks.

The Food Security in an urbanizing world workshop, held in Addis Ababa (20-22 March, 2013), brought together academics, policy researchers and practitioners from Africa, Asia and Latin America, to identify researchable questions and methodological approaches to address knowledge gaps and risks to food security with specific attention to low-income groups in urban areas as well as those in peri-urban and rural areas that interact with urban centres. ICSU ROA was represented at this workshop by the Programme Specialist responsible for Biological Sciences, some members of the consortium on Health and Human Well-being as well as Vincent Tanya, a member of the RCA.

The Cities at Risk workshop, held in Durban, South Africa, 25-28 March, 2013, was attended by scientists, decision

Core Activities (continued)



makers and practitioners to design a plan for short, medium and long term research and capacity building on urban vulnerability and resilience in the African continent. The Director of ICSU ROA and Programme Specialist (Physics Mathematics and Engineering Sciences), and Babatunde Agbola (RCA member) participated in this workshop.

CSIR

ICSU ROA and the CSIR, which is the holding organisation for ACCESS, worked on an open-ended memorandum of agreement to work together on a project by project basis through the CSIR's many research areas. This has paved way for ICSU ROA to partner further with ACCESS, which is a Centre of Excellence of the NRF and DST

ACCESS

The Director attended the ACCESS Student Weekend and Workshop in August, 2012 in Cape Town to interact with the ACCESS student body and theme leaders on the proposed collaboration with ACCESS. She gave a presentation on the programmes of ICSU and of ICSU ROA as well as the various

networks that are within the ICSU Family for collaboration. ACCESS was also an active partner prior to and during the Future Earth Regional Workshop for Africa where they provided logistical, organisational and financial support.

AfroMont

ICSU ROA participated in this workshop which was organised by AfroMont, the South African Environmental Observation Network (SAEON) and the Global Mountain Biodiversity Assessment in August 2012 in Lesotho. The Programme Specialist for Physics, Mathematics and Engineering Sciences attended this workshop and made a presentation on the Regional Collaborative Research Programmes of the Office. For the follow-up conference held in January 2013 in Cameroon, the Office gave financial support to AfroMont, for participation of African scientists from different regions of the continent. AfroMont activities are encompassed in ICSU ROA activities for the implementation of the science plan on Global Environmental Change (including Climate Change and Adaptation).

IGFA

The Director was invited to give a presentation on Regional Cooperation in Global Change Research in Africa, at the 2012 Meeting of the International Group of Funding Agencies for Global Environmental Change Research, the main funder partner of the Future Earth initiative. The meeting was held in Stockholm, Sweden, from 4-5 October 2012.

Other partnerships and networks

Other partnerships and networks which were effectively engaged with over the period include those with AISA; iThemba Labs; African Monsoon Multi-disciplinary Analysis Network (AMMA-NET); Department of Environmental Affairs of South Africa and SAPECS.

Core Activities (continued)

Strategic Partnerships

Interactions between ICSU ROA and its strategic partners were strengthened during the 2012/13 financial year.

The National Research Foundation (NRF), South Africa

The NRF which is ICSU ROA's host provided complimentary financial support for the Regional Office's extra-budgetary needs related to losses suffered by ROA as a result of a fire that caused substantial damage to the latter's office property in 2011. ICSU ROA staff also benefitted from the NRF's staff development programmes through participation in internal courses and workshops in areas like performance management, financial management, and ethical values. The Office was given an opportunity to introduce its activities to new NRF staff during the NRF induction course. ICSU ROA Director also participates in the regular NRF's Research and Innovation Support and Advancement (RISA) Executive Committee meetings and is an ex-officio member of the South African ICSU Board.

The Department of Science and Technology (DST), South Africa

The DST is the main funder of ICSU ROA through funds transferred annually to the NRF. In the past year in particular, the DST provided logistical, organisational and diplomatic support to the Office. The Department actively participated in the ICSU ROA post-GA30 National Members' and Scientific Unions' Forum held in South Africa in November 2012. Moreover, the DST revived ICSU ROA's high profile within the region, by for example advocating for ICSU ROA to be on the agenda of AMCOST and SADC Ministerial meetings as well as in the Multilateral Cooperation and Africa stakeholders' fora.

The DST and ICSU ROA meet regularly to seek alignment in

their activities and explore areas of synergy. The DST also seconded an intern to ICSU ROA for a period of 12 months starting from August 2012. Apart from ICSU ROA taking up the responsibility to mentor the intern on international relations, this also gave ROA additional hands for its activities.



Interaction with Intergovernmental Bodies

The Office continued to work with intergovernmental bodies, notably the AU New Partnership for Africa's Development (NEPAD), the United Nations Environment Programme (UNEP), the United Nations Economic Commission for Africa (UNECA) and the United Nations Educational, Scientific and Cultural Organisation (UNESCO) during the 2012/13 financial year.

New Partnership for Africa's Development (NEPAD)

Over the period, staff of the Office participated in three NEPAD Consolidated Plan of Action (CPA) Review Working Group Meetings which culminated into the production of a revised draft of the AU/NEPAD Science and Technology CPA. This was submitted to the Bureau Meeting of the African Ministerial Conference on Science and Technology (AMCOST) for endorsement. The Regional Director also participated in the African Union (AU) High Level Panel on Science, Technology and Innovation meeting which discussed the final draft CPA in preparation for submission to AMCOST in November 2012.

United Nations Environmental Programme (UNEP)

The Office, represented by the Programme Specialist for Physics, Mathematics and Engineering Sciences, participated

Core Activities (continued)

in a UNEP Rio +20 Evaluation Meeting in Kenya, 19-20 November, 2012 which looked at the extent to which the Rio+20 Conference outcomes have taken into account the proposed recommendations presented by the group prior to the conference. It was noted that the conference did not fully address the key issues put forward by the civil society organisations and trade union groups. For post Rio+20 activities, the group recommended that more efforts should be made to find ways to implement the resolutions that were prepared prior to Rio+20 and to bring more organisations on board. It was resolved that more work should be directed towards the development and implementation of environmental policies on the continent as well as making links to the current discourse on sustainable development goals of the post-2015 development agenda.

United Nations Economic Commission for Africa (UNECA)



The Director of ICSU ROA was invited and funded by the UN and UNECA to participate as a representative of the S&T major Group in the High-Level Consultative Meeting on the Outcomes of the United Nations Conference on Sustainable Development: Implications for Africa Eighth Session. This was

held during the 8th Session of the Committee on Food Security and Sustainable Development (CFSSD-8) and the Regional Implementation Meeting for the Twentieth Session of the Commission on Sustainable Development (CSD-20), in Ethiopia in November, 2012. The meeting discussed among others the main outcomes of the United Nations Conference on Sustainable Development (Rio+20) and their implications for Africa; implementation of the 2012/13 Work Programme of the ECA Sub-programme on Food Security and Sustainable Development and other strategies for ensuring food security. The Director also participated in the drafting committee for the next draft of the document: Main outcomes of the United Nations Conference on Sustainable Development - Implications for Africa.

United Nations Educational, Scientific and Cultural Organization (UNESCO)

A representative of the UNESCO Regional Office for Africa in Nairobi, Kenya, participated in the African Regional Implementation Workshop on Hazards and Disasters in Senegal in September, 2012. At a round-table discussion, the UNESCO representative outlined the focus areas of the office, which include those in natural sciences and impact of natural and human-induced hazards. He called for a joint action between UNESCO, ICSU ROA and other stakeholders within and outside the region to address the problems of hazards and disasters in Africa.

Financial Report

Challenges of the 2012/13 Financial Year

Conclusion

Annexes



Financial Report

The income and expenditure statement of ICSU ROA for the 2012/13 financial year stood as below:

ICSU REGIONAL OFFICE FOR AFRICA - Pretoria Office and Projects

INCOME AND EXPENDITURE STATEMENT FOR THE YEAR ENDED 31 MARCH 2013

	Year ended 31 March 2013	Year ended 31 March 2012
	ZAR	ZAR
INCOME RECEIVED		
Department of Science & Technology	2 000 000.00	3 726 360.00
ICSU Secretariat, Paris	1 841 741.94	855 806.74
Conference Income	35 239.38	
Ademe - Interlink project refund	33 698.80	-
NRF CONTRIBUTION	37 000.00	1 597 000.00
UNCOMMITTED FUNDS FROM PREVIOUS YEAR	1 946 350.42	-212 727.51
FUNDS AVAILABLE FOR THE YEAR	5 894 030.54	5 966 439.23

Financial Report (continued)

	4 822 586.56	4 020 089
TOTAL EXPENDITURE		
RUNNING EXPENSES	2 155 142.51	1 622 215
Audit fees	25 344.48	13 726
Bank charges	5 578.33	2 192
Computer Consumables	36 638.16	6 818
Conferences and Workshops	348 171.10	250 102
Exchange control loss	9 379.78	2 630
Fees for Services	104 854.58	230 096
Marketing costs	17 558.05	10 790
Medical Expenses		
Purchases	2 414.87	1 292
Postage and Courier	20 539.83	21 147
Printing	90 168.48	8 270
Publications	155 233.80	
Recruitment and training	54 678.00	21 363
Refreshments	3 500.76	10 208
Stationery	7 911.04	13 513
Telephone	20 221.46	49 956
Travel and Subsistence - international	1 075 483.72	827 305
Travel and Subsistence - local	177 466.07	152 807
SALARIES	2 635 129.43	2 375 696
CAPITAL EXPENSES		
Computers and Equipment	32 314.62	22 178
SURPLUS/(DEFICIT) AT END OF YEAR	1 071 443.98	1 946 351

Challenges of the 2012/13 Financial Year

The foregoing successes registered during the financial year 2012/13 notwithstanding, the Office encountered a number of operational hurdles which invariably impacted negatively on its expected goals. These included a general stall in the implementation activities of its science plans owing to the lack of project funding, while there was plenty funding for workshops and meetings. However, networking and planning improved a lot because of this funding, mainly from the Sida grant to ICSU. One of the positive spins to this increased networking and interaction has been the co-authorship of books, a number of which are currently in the pipeline. The fact that ICSU ROA is a regional office operating within a national entity has come with its own set of challenges as well, which we are working on having resolved in the near future.

Conclusion

ICSU ROA continues to grow from strength to strength, and finding alignment and synergies with the many potential strategic partners on the continent and beyond. With continued strong partnerships with and support enjoyed from statutory entities in South Africa and the intergovernmental agencies on the continent, as well as the one-ICSU working strategy, the Office is likely to see phenomenal growth in its strategic footprint as it ushers in the last year of its current hosting agreement. However, the Office will need a lot of support and an enabling environment from its line management for it to deliver on its mandate.

Annexes

Annex A: Secretariat of ICSU Regional Office for Africa

Name	Position
Dr Edith Madela-Mntla (South Africa) e.mntla@icsu-africa.org	Regional Director
Dr Daniel Nyanganyura (Zimbabwe) d.nyanganyura@icsu-africa.org	Programme Specialist
Dr Richard Glover (Ghana) r.glover@icsu-africa.org	Programme Specialist
Mr Bongani Mahlalela (South Africa) b.mahlalela@icsu-africa.org	Communications Officer
Ms Hazael Naidoo (South Africa) h.naidoo@icsu-africa.org	Administrative Assistant

Annexes (continued)

Annex B: Composition of the ICSU Regional Committee for Africa

Statutory Members

Ameenah Gurib-Fakim (Chairperson)
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Executive Director
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Edith Madela-Mntla
Regional Director
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Kennedy Reed
(Representative of ICSU EB)
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Nithaya Chetty (representing the NRF)-until November, 2012
Associate Professor of Physics
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Nithaya.Chetty@up.ac.za

Alan Christoffels (representing the NRF) –from January 2013
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Annexes (continued)

Annex C: ICSU Members and Associates in Africa

Annex C1 - ICSU National Members in Africa

Angola:	Foundation of Science and Development (Member since 2010)
Botswana:	Ministry of Communications, Science and Technology of Botswana (Member since 2006)
Cameroon:	Cameroon Academy of Sciences (Member since 1999)
Egypt:	Academy of Scientific Research and Technology (Member since 1925)
Ethiopia:	Ethiopian Science and Technology Agency (Member since 2006)
Kenya:	Kenya National Academy of Sciences (Member since 1980)
Lesotho:	Department of Science and Technology (Member since 2007)
Malawi:	National Research Council of Malawi (Member since 2006)
Mauritius:	Mauritius Research Council (Member since 2005)
Morocco:	Centre Nationale de la Recherché Scientifique et Technique (Member since 1925)
Mozambique:	Scientific Research Association of Mozambique (Member since 1999)
Namibia:	Ministry of Education: Directorate of Research, Science and Technology (Member since 2008)
Nigeria:	Nigerian Academy of Science (Member since 1963)
Seychelles:	Seychelles Centre for Marine Research and Technology (Member since 1983)
South Africa:	National Research Foundation (Member since 1919)
Tanzania:	Tanzania Commission for Science and Technology (Member since 2004)
Togo:	Chancelleries des Universités du Togo (Member since 1993)
Uganda:	Uganda National Council for Science and Technology (Member since 1995)
Zimbabwe:	Research Council of Zimbabwe (Member since 1989)

Annexes (continued)

Annex C2 - ICSU National Observers in Africa

Burkina Faso:	Centre Nationale de la Recherché Scientifique et Technologique (Member since 1981)
Côte d'Ivoire:	Académie des Sciences, des Arts, des Cultures d' Afrique et des Diasporas Africaines (Member since 1992)
Ghana:	Ghana Academy of Arts & Sciences (Member since 1961)
Rwanda:	Kigali Institute of Science and Technology (Member since 2006)
Senegal:	Association des Chercheurs Sénégalais (Member since 1993)
Sudan:	National Centre for Research (Member since 1974)
Swaziland:	National Research Council (Member since 1993)
Zambia:	Zambia Academy of Sciences (Member since 2006)

Annexes (continued)

Annex C3 - ICSU National Scientific Associates in Africa

Madagascar: Ministère de l'Enseignement Supérieur et de la Recherche Scientifique (Member since 1970)

Tunisia: Université Tunis El Manar (Member since 1931)



Strengthening international science for the benefit of society



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