

# African Technology Policy Studies Network Annual Report 2010

Science, Technology and Innovations for African Development

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# List of Acronyms:

AAN	Africa Adaptation Network	IEEE	Institute of Electrical and Electronics Engineers
AAS	African Academy of Sciences	IGAD	Inter-Governmental Authority on Development
ABS	Access and Benefit Sharing	IIEPR	Independent International Expert Panel of Reviewers
ABSF	-	IP	Intellectual Property
	African Biotechnology Stakeholders Forum	LSC	Laboratory for Citizenship Sciences
ACP	African, Caribbean and Pacific Group of States	MDG(s)	Millennium Development Goal(s)
ACTS	African Centre for Technology Studies	M&E	Monitoring and Evaluation
ADB	African Development Bank	MEMR	Ministry of Environment and Mineral Resources
ADSI	African Development Solutions International	MESHA	
AGM	Annual General Meeting		Media for Environment, Science, Health and Agriculture
AGRA	Alliance for a Green Revolution in Africa	MoU	Memorandum of Understanding
AHPSR	Alliance for Health Policy and Systems Research	MVI	Maatschappelijk Verantwoord Innoveren
AIAE	African Institute of Applied Economics		(Responsible Innovation)
AID-ME	Academy for International Development – Middle East	NAFDAC	National Agency for Food and Drug Administration and Control
AKTP	Africa Knowledge Transfer Partnerships	NCCRS	National Climate Change Response Strategy (Kenya)
AMCEN	African Ministerial Conference on Environment	NCST	National Council for Science and Technology (Kenya)
ANAFE	African Network for Agro-forestry Education	NEPAD	New Partnership for African Development
ARIPO	African Regional Intellectual Property Organization	NGO(s)	Non-Governmental Organization(s)
ASARECA	Association for Strengthening Agricultural Research in Eastern	NOTAP	National Office for Technology Acquisition and Promotion (Nigeria)
	and Central Africa	NSC	National Steering Committee
ASSRT	African Society for Scientific Research and Technology	NSI	National Systems of Innovation
ATPS	African Technology Policy Studies Network	NUC	National Universities Commission
	Africa Union	OSS	Sahara and Sahel Observatory
AU		PanAAC	Pan African Agri-Business Consortium
AWFST	African Women Forum for Science and Technology	PM&E	Program Monitoring and Evaluation
AYFST	African Youth Forum for Science and Technology	PMF	Performance Monitoring Framework
BCEAO	Banque Centrale des Etats de l'Afrique de l'Ouest	PMP	Performance Monitoring Plan
BOAD	Banque Ouest-Africaine de Developpement	PPES	Participatory Proposal Evaluation System
BTA	Biotechnology Trust Africa	PPP	Public Private Partnership
BTA	Biotechnology Trust Africa	RMRDC	Raw Materials Research and Development Council
CAADP	Comprehensive African Agriculture Development Progam	RSC	Regional Steering Committee
CAS-IP	Central Advisory Service on Intellectual Property	RUFORUM	Regional Universities Forum for Capacity Building in Agriculture
CCAA	Climate Change Adaptation for Africa	S&T	Science & Technology
CDM	Clean Development Mechanism	SADC	
CGIAR	Consultative Group on International Agricultural Research		Southern Africa Development Community
CHEA	Conference on Higher Education in Agriculture in Africa	SET-DEV	Science Ethics and Technological Responsibility in Developing
CIFRES	Centre International de Formation et de Recherche en Energie		and Emerging Countries
	Solaire de Dakar	SRDA	Scientific Revival Day for Africa
CLICK	Centre for Legal Information and Communication in Kenya	STEP B	Science and Technology Education Post-Basic
CLICT	Center for Law, Information and Converging Technologies	STEPRI	Science and Technology Policy Research Institute (Ghana)
COMESA	Common Market for Eastern and Southern Africa	STEPS Centre	Social, Technological and Environmental Pathways to
COP-15	United Nations Climate Change Conference, Copenhagen,		Sustainability
	Denmark	STI	Science, Technology and Innovation
COSTECH	Tanzanian Commission for Science and Technology	STR	Scientific and Technological Research
CSIR	Council for Scientific and Industrial Research	STRC	Scientific, Technical and Research Commission of the Africa Union
CSP		TK	Traditional Knowledge
	Climate Sense Program	ToTs	Training of Trainers
CTA	Technical Centre for Agricultural and Rural Cooperation	UBC	Uganda Broadcasting Corporation
DDRN	Danish Development Research Network	UEMOA	l'Union Economique et Monétaire Ouest Africaine
DFID	Department For International Development	UKPOST	United Kingdom Parliamentary Office of Science and Technology
DGC	Digitization, Globalization and Commercialization	UNCST	Uganda National Council for Science and Technology
DGIS	Netherlands Directorate-General of Development Cooperation	UNECA	United Nations Economic Commission for Africa
DREA	Department of Rural Economy and Agriculture	UNEP	United Nations Environment Program
ECOWAS	Economic Community of West African States	UNESCO	United Nations Education, Scientific and Cultural Organization
Eol(s)	Expression(s) of Interest	UN-HABITAT	United Nations Human Settlements Programme
ESA	East & Southern Africa	UniBRAIN	Universities, Business, and Research in Agricultural Innovations
FARA	Forum for Agricultural Research in Africa	UNU-Merit	United Nations University-Maastricht Economic Research
FMST	Federal Ministry of Science and Technology		Institute on Innovation and Technology
GAN	Global Adaptation Network	WCSJ	World Conference of Science Journalists
HENNET	Health NGOs Network	WECAN	Women Innovation Challenge
HTP	Health Technology Program	WESP	Water and Environmental Sustainability Program
ICIPE	Insect Physiology and Ecology	WFSJ	World Federation of Science Journalists
ICJ	International Commission of Jurists	WSSF	World Social Science Forum
ICPAC	IGAD Climate Prediction and Applications Centre	WU	Wageningen University
ICT(s)	Information and Communication Technology(ies)		
IDRC	International Development Research Centre		World Wide Fund for Nature- Eastern Africa Regional
IPCC	Intergovernmental Panel on Climate Change	VICAN	Programme Office
		YICAN	Youth Innovation Challenge

FRONT 2010 L SCIENCE, TECHNOLOGY AND INNOVATIONS FOR AFRICAN DEVELORMENT

# **Board of Directors:**



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To become the leading international centre of excellence and reference in science, technology and innovation systems research, training and capacity building, communication and sensitization, knowledge brokerage, policy advocacy and outreach in Africa

# /lission Overa

To improve the quality of science, technology and innovation system, research and policy making in Africa by strengthening capacity for science and technology knowledge generation, communication and dissemination, use and mastery for sustainable development in Africa To develop Africa's STI capacity (knowledge basis and infrastructure, knowledge conditions and policies) today for sustainable African development tomorrow.



A cross section of delegates attending the 2010 Annual Conference.



#### Dear stakeholder,

I am pleased to present to you the 2010 annual report, which spells out progress that the African Technology Policy Studies Network (ATPS) has made during the year. In line with its vision to act as a broker between various actors in the Science, Technology and Innovations (STI) policy processes, ATPS brings together top STI experts in academic institutions and other knowledge communities, policy makers, and private sector actors in the continent to deliberate on and prioritize Africa's response to global challenges. This is done through STI policy studies, capacity building and advocacy for policy and institutional change in the context of Africa's socio-economic and environmental development challenges.

The ATPS supports capacity building activities in the area of Science, Technology, and Innovation knowledge generation, knowledge circulation and networking, policy making and policy practices in Africa for African development. In this regard, we are happy to register increase in small grants and regional grants commissioned to national chapters, which are progressing reasonably well.

The ATPS has also played a role in shaping the STI agenda through its participation in the development of the African manifesto for STI, the lead contribution to the Africa chapter on the UNESCO led Global science Report, 2005 – 2010, and leadership in the Global reports on Sustainable water management. Participation in the formation of the national systems of innovation in Nigeria and contributions to national STI policy dialogues in Kenya, Nigeria, amongst many other countries are but some of policy impacts witnessed in 2010.



ATPS will, in the coming year, continue to pursue its fiveyear strategic plan with an emphasis on consolidating the gains made so far whilst simultaneously engaging relevant gears of acceleration in growth and exemplary achievement of our core mandate. May I take this opportunity to thank our partners for their continued support. I wish to thank my fellow management board members and the Secretariat staff for their hard work, which has enabled this progress to be made during the year.

I re-affirm ATPS commitment to continue championing this important function in the region. We look forward to all your continued support in so doing. I wish you all a prosperous and fruitful 2011.

#### Thank you. God bless you, God bless Africa!

Prof Sam Wangwe BOARD CHAIRMAN

Science, Technology and Innovations for African Development

A section of tea plantation in Kericho, Kenya.



The year 2010 marked 10 years since the birth of a new and autonomous African Technology Policy Studies Network (ATPS). In 2000, ATPS embarked on a new mission as an independent African Network focused on Science Technology and Innovation for sustainable development. It is therefore a critical juncture in the ATPS Network's evolution as we reflect on the gains made so far and strategize on how to capitalize on these gains and overcome our challenges in order to fulfill our key mandate of knowledge brokerage and generation of new and innovative policies that are action-oriented towards poverty reduction and Africa's global inclusion.

This report presents a summary of the Science, Technology and Innovation (STI) capacity building activities and fundraising activities and financial position of the African Technology Policy Studies Network (ATPS) for the period 01 January 2010 to 31 December 2010. The report also highlights the key achievements and challenges faced by the ATPS Secretariat during the reporting period.

The report is organized under the strategic objectives outlined in the ATPS Phase VI Strategic Plan, 2008 - 2012. These include:

- i. Research, Research Capacity Building & Knowledge Generation
- ii. International Cooperation and Partnerships;
- iii. Youth and Gender Empowerment;
- iv. Training and Sensitisation;
- v. Science Communications and Stakeholder Dialogue
- vi. Outreach, Knowledge Brokerage, Knowledge Circulation and Policy Dialogue

ATPS is half-way through the implementation of the Phase VI Strategic Plan (2008 – 2012), which was an outcome of a participatory and consultative dialogue involving network members, development partners and key stakeholders. The implementation of the ATPS Phase VI Strategic Plan has been successful thus far with significant progress made in achievement of the objectives stated above.

During the year, ATPS was particularly proud to have



spearheaded the drafting and launch of the African Manifesto for Science Technology and Innovation (STI), which is an outcome of dynamic multi-lateral dialogue amongst partners and key stakeholders in Africa, Europe and India. The Manifesto makes a case for Africa's sovereignty in science, technology and innovation and argues for full socialization and democratic governance of STI in Africa, for Africans and by Africans as a pre-requisite for sustainable development in Africa. The African Manifesto, which was launched in Cairo Egypt, Hyderabad India, and Brussels Belgium, provides a profound blue print for the new renaissance in STI policy research, policymaking and policy practice in Africa. I am very delighted to note that the Manifesto has been welcomed by many key African stakeholders Pan African networks and institutions responsible for the advancement of science, technologies and innovation in Africa. Prof. Berhanu Abegaz, the Executive Director for the African Academy of Science, describes the "out-of-the-box thinking that comes out in the manifesto - like a breeze of fresh air". Many African Governments represented at the ATPS annual general meeting in Cairo where the Manifesto was launched also adopted the Manifesto principles, and the ATPS national



chapters have since started the implementation of its recommendations. This leaves me with a fresh hope for African development through democratic governance of science, technology and innovation.

Another key outcome during the year was the involvement of ATPS in leading the sub-saharan Africa chapter of the UNESCO Science Report 2010. Published every 5 years, the UNESCO Science Report provides a barometer for assessing the progress of science globally. One key lesson from the process of drafting the reports was that there is paucity of data and information on STI indicators in many African countries. This prompted the novel idea for ATPS to initiate the publication of a *Biennial Report on the State of STI in Africa*, a process that is now underway. It is hoped that the *Biennial Report on the State of STI in Africa* will address the data gaps in STI in Africa and also provide a barometer for assessing rewarding excellence in STI governance through the *ATPS STI Governance Award*.

The year 2010 also saw the successful formation of the inter-agency National System of Innovation (NSI) Steering Committee for in Nigeria. This inter-agency committee brings together relevant STI Agencies from different Ministries, including Education, Science and Technology, Agriculture, among others to a common platform to pursue the common goal of fostering a sustainable National System of Innovation in Nigeria, through collaboration amongst the key actors in the system.

Another exciting development during the year was the successful strengthening of ATPS national chapters and revitalization of activities in Liberia, Sierra Leone, South Africa, Zambia, and Zimbabwe as well as the expansion of the network with new chapters established in Egypt Morocco, Rwanda, Sudan, and Diaspora chapters in the United Kingdom and the United States of America. I am especially pleased to see the work of the ATPS expand to Northern African countries such as Egypt and Morocco, to include Africans in the Diaspora, the UK and USA. This provides a more inclusive platform for all Africans in the continent and in the Diaspora to proactively engage in the important and urgent business of building Africa's capacities through STI. This, in my view, has been the missing link in Africa's development struggle. Until Africa builds a critical mass of indigenous capacity in science, technology and innovation, we will remain an appendage to the global economy. With continued low marginal productivity and little value addition to primary products in Africa's priority sectors, such as agriculture and natural resources, Africa will remain net consumers in the global market.

Other program activities of the ATPS were implemented as planned while members of the Network have continued to act as effective brokers of knowledge in relevant STI global platforms such as the Intergovernmental Panel on Climate Change (IPCC), the International Resource Panel, and in several activities of sister organizations in Africa and globally. The ATPS research capacity building program saw the completion of 12 research projects in eight countries, involving 47 researchers on different STI subjects. The year also saw the commissioning of 20 new research projects in 14 countries and involving 77 researchers on various areas of innovation incubation. ATPS' presence on the STI fora in Africa and globally also improved significantly during the year with six new Memoranda of Understanding signed with key policy research institutions in Africa. The ATPS also continued its efforts to empower the quadruple helix in STI policy research and science communication through various training activities. Of particular interest is the training of journalists to facilitate the communication and dissemination of STI policy issues and research results as well



as the continued implementation of activities under the ATPS Youth and Women Innovation Challenge Programs. The new bilingual website is also a long desired achievement as it now provides platforms for communication of STI in the three African union languages: English, French and Arabic. We have also noted a significant increase in the registration for ATPS membership which rose by more than 200% compared to the year 2009. Another welcome development during the year is the increased number of invitations to collaboration and partnerships in STI activities and policy processes that ATPS received. This underscores the increased visibility of ATPS and the confidence with which stakeholders regard it as a robust Network backed with quality and sound experience, thereby taking us closer to attaining our quest as a leading international centre for excellence and reference in STI systems research, training and capacity building, communication and sensitization, knowledge brokerage, policy advocacy and outreach in Africa.

Though all these are welcome achievements during the year, The ATPS will continue to close the loop through building Africa's STI capacity today for sustainable development tomorrow. To every great story, there are challenges. Even though our funding portfolio increased significantly in 2010, the work ahead remains substantive. The STI policy support needs by African countries increased significantly in 2010 as they grappled to respond to the increased global challenges brought about by the world economic recession, climate change, poverty, energy and food prices, among others. We can only meet these needs more effectively if our budget constraints are relaxed further through receipt of more funding from development partners. I therefore thank our Partners for their increased support in 2010 and continue to count on their continued support for years ahead. I also encourage the African union Commission, the African national governments and the Private Sector to kindly increase their support to STI

policy research and policy practice in Africa. I also call on new development partners to support ATPS activities. These additional resources will provide more impetus to ATPS to support enterprise activities through the ATPS National Chapters which are the tentacles through which the Network is able to have a wide-reach.

As we move towards the completion of the ATPS Phase VI Strategic Plan (2008-2012), we will continue harnessing our collective efforts aimed at unleashing the power for STI entrepreneurship in Africa, as this provides the missing links in Africa's Development. ATPS will continue pushing forward five functional domains that include generating the right knowledge that is required for policies, for the right investment, for the right decision making, for the right actions to drive African development. Disseminating and sharing this knowledge is at the very core of ATPS as a knowledge broker to ensure that knowledge generated in Africa does not gather dust in shelves but can actually be up- scaled and patented. The achievements recorded in 2010 could only be possible through the continued commitments and support by the dedicated team at the ATPS Secretariat, National Chapter Coordinators, Board Members, Development Partners and all other network members and stakeholders who share in our common vision of emancipating Africa through STI. I thank you all very much for the successful 2010 and look forward to working with you in 2011 and beyond.

We are therefore pleased to share this report as a reminiscence of our activities for the year 2010, with great confidence that the year ahead will be even more rewarding for the ATPS Network and Africa as a whole.

#### God bless you all. God bless Africa!

Kevin C. Urama ATPS Executive Director

Science, Technology and Innovations for African Development

A cross section of delegates attending the 2010 Annual Conference.



Delegates at the ATPS 2010 Annual Conference, Cairo, Egypt

#### ATPS holds annual international conference in Cairo

**BOUT** 175 delegates from around the globe comprising of a diverse ATPS membership and stakeholders among them Policy Makers, Science Experts, Private Sector Actors, and Civil Society members working on science, technology and innovation policy research and practices in Africa, gathered in Conrad Cairo to review progress and identify priorities for future capacity building activities. The Conference took place from 25 – 30 November 2010 under the theme "The State of Science, Technology and Innovation in Africa: Implications for Achieving the Millennium Development Goals (MDGs)".

One of the major key highlights of the conference included the launch of The African Manifesto for Science, Technology and Innovation which was developed in liaison with partners from Europe, Africa and India under the auspices of the European Union funded SETDEV project, and the new initiative on developing biennial reporting on the State of Science Technology and Innovation in Africa Report. Also tied to the conference was a Proposal Tournament to identify potential Grantees for the Climate Change Innovation Challenge Awards for implementation in 2011.

In his opening remarks, the ATPS Executive Director, Dr. Kevin Urama appreciated the diverse audience whom he noted were carefully selected due to their expertise, passion and interest in Africa's development through science, technology and innovation (STI). He expressed optimism that the investment brought together at the conference would add value by way of better understanding of what needs to be done to advance Africa through STI as well as building capacity. Dr. Urama challenged the audience to be part of the solutions in charting the way forward for Africa, setting aside the lethargy of problems that are sometimes orchestrated to inform the dependency syndrome that has ailed Africa for a long time. He noted that ATPS and its partners had decided to adopt this direction by launching the African manifesto for Science, Technology and Innovation during the conference as a means of opening a dialogue of charting a new way of renaissance in Africa through STI.



A cross section of delegates attending the 2010 Annual Conference.

The opening keynote address was delivered by Prof. Maged El-Sherbiny, the President of Scientific Research and Technology (ASRT) who is also the Assistant Minister in the Ministry of Scientific Research, policy making and Government, Cairo, Egypt. In his address, the minister appreciated the focus of the conference on seven key themes which are all inter-related and critical to Africa's development. He acknowledged the integrated roles played by various stakeholders towards Science and Technology in Africa noting that this serves to assert the Millennium Development Goals (MDGs). He further appreciated the timeliness of the conference adding that African countries need to tap into the resources offered by existing networks to facilitate the implementation of Science, Technology and Innovation as this will ultimately contribute towards the attainment of the MDGs.

To add excitement to this conference was an ATPS family retreat that saw the main arms of the ATPS family engage in a series of facilitated participatory activities. Teams also sat in workshops for the mid-term review of the implementation of the ATPS Phase VI Strategic Plan, 2007 – 2012, and the review of the governance reforms implemented so far in response to the SWOT analyses carried out in 2007 at the Secretariat and National Chapter levels. These review workshops and the team building activities were facilitated by Professional Consultants to ensure full participatory dialogue and priority setting. A Corporate Governance and Network Management training for the ATPS Secretariat Management staff, National Chapter's Regional Council Members and National Chapter Coordinators was also conducted during the Conference.

The forum also formed the platform for the Annual General Meeting (AGM) and the 18th meeting of the ATPS Board.

#### Corporate Governance and Network Management Training

Key network members including ATPS Board Members, National Chapter Coordinators, Regional Steering Committee Members, Executives of AYFST and AWFST, as well as the Secretariat were taking through various issues in Corporate Governance during the conference in Cairo. The training covered key principles and practice of corporate governance, the effective board, corporate control, financial reporting and corporate accountability and disclosure. 36 participants benefited from this training.

#### **ATPS National Chapter Coordinators' Meeting**

One of the side events that took place during the annual conference was the National Coordinators meeting to discuss strategies and ways of strengthening the chapters. The Secretariat shared the challenges that they encounter while administering ATPS work through the chapters. One key issue that emerged from this meeting was the need to institutionalize the chapters within the councils of science and technology and/or relevant ministries of science and technology. The communiqué produced at the regional council meeting held in Accra, Ghana in July 2010 was adopted at this meeting with national coordinators committing to cooperate fully with Secretariat during the implementation. 20 National Chapter Coordinators attended the meeting.

#### Strengthening National Intellectual Property Policy and legal framework in Eastern and Southern Africa- Annual meeting held

# During the 2010 ATPS Annual Conference and Workshop, a regional meeting under

the Intellectual Property Programme was held as a side event on 26 and 27 November 2010, to discuss traditional knowledge access and benefit sharing as well as effective IP Systems. The regional meeting brought together all stakeholders currently engaged in the programme including National Chapter Coordinators, Regional Steering committee members, National Steering committee members, Training of Trainers participants and the Principal Investigators undertaking regional IP studies.

The meeting also featured presentations on the ARIPO protocol for protection of Traditional Knowledge and Folklore, seed systems and Access and Benefit Sharing. Key resource persons among them Dr. Niels Louwaars of Centre for Genetic Resources, Wageningen University and IP Regional Committee member and Dr. Joep van den Broek, Delegated Advisor Agriculture, Embassy of the Kingdom of the Netherlands (EKN) in Ethiopia, shared their expertise with the participants through a series of presentations.

National chapter coordinators from the eight countries involved in the IP program (Ethiopia, Kenya, Lesotho, Malawi, Swaziland, Tanzania, Uganda, and Zimbabwe) also discussed the development of a work plan for 2011.

#### **ATPS Holds Proposal Tournament in Cairo**

The Proposal Grants Tournament was held during the 2010 Annual Conference and Workshop in Egypt on 27th November 2010. Following the 18th meeting of the ATPS Board and in relation to the tournament, 24 grants for various research and innovation incubation projects were awarded to members in 11 countries. Grants were issued to support the implementation of all projects which passed the threshold for fundable proposals based on scores received from the National Chapter Coordinators and the Independent International Expert Panel of Reviewer (IIEPR), following the rigorous Participatory Proposal Evaluation System (PPES)

#### adopted by the ATPS in 2008.

The proposals received for the ATPS grants competition in 2010 were commendable. Out of 49 proposals received in response to the call, 25 were shortlisted for the proposal tournament, and 24 were fully funded following the PPES process at each stage. ATPS is grateful to the researchers, National Chapter Coordinators and the IIEPR members who participated in the process in 2010 and look forward to working with them during the project implementation in 2011. As usual, the selected projects are designed to address the strategic goals, milestones and objectives of the ATPS Phase VI Strategic Plan, 2008 – 2010 and each are domiciled in specific thematic programs.

To support the implementation process, the ATPS will appoint two Technical Coordinators who will work with the Researchers to ensure that the technical and scientific quality of the research outputs will be of the required standards. In addition, to ensure relevance to the local policy contexts and full embedding of the research process in the local conditions and ATPS policy procedures, a small budget has been provided for each National Chapter to cover administrative costs of providing supervision to all the grantees in the chapters. As per the resolutions of the National Chapters' Regional Steering Committee dated 10 July 2010 and adopted by the ATPS General Assembly the costs have been set at 5% of the total budget for each grant accordingly. This means that only 5% administrative budget shall remain with the Regional Secretariat to provide regional coordination and facilitative services to these programs. The regional teams will play a key role in ensuring specific projects in chapters meet objectives, milestones and deliverables specified in the Grant Agreement.

ATPS is currently working on the concept note for the call for proposals for the 2011 competition and the ATPS annual conference 2011. These will be based on gap analyses of current programs and the general theme of Health Innovation Systems, and STI governance.



A cross section of delegates attending the 2010 Annual Conference.

#### The Launch of the African Manifesto for Science and Technology

The African Manifesto for Science and Technology was officially launched on 26th of November at the African Technology Policy Studies Network 2010 Conference in Cairo, Egypt. The production of the manifesto was led by the African Technology Policy Studies Network (ATPS) in collaboration with African, Indian and European partners and stakeholders, under the framework of SET-DEV.

The African Manifesto for STI makes a case for Africa's sovereignty in Science, Technology and innovation. It argues for full socialization and democratic governance of STI in Africa, for Africa, by Africans as a pre-requisite for sustainable development in Africa.

It is historic development aimed at closing the STI gap between Africa and the rest of the world including nations in Asia which were at par with many African countries four decades ago. According to Wiebe E. Bijiker who is a professor of Technology & Society at the University of Maastrich, "The launch was a celebration of science and technology, what I liked most is that there were not only top policy makers but also young engineers with projects that they wanted to work on half a year and then make a difference in the world."

"It was a celebration of Science and Technology and as much a celebration of democracy because the conference was run in a way that the youth, women, policy makers and various scientists participated equally." Prof Wiebe said.



"We discussed how science Prof Wiebe Bijiker and technology should also

help make Africa more democratic and positively change its governance," Prof Wiebe added.

Prof Wiebe Bijiker helped to create and was the first scientific coordinator of the European master's degree program on Society, Science and Technology (ESST), carried out by some 18 universities in 10 European Countries. His research focuses on the relation between technology, society and science.



Prof Alfonso Alfonsi who has also been a major driving force behind SET-DEV said that "the launch of the manifesto is a great thing and whatever I have heard here - in Cairo- is lived throughout the year by various leaders including those in this conference: the youth leaders, the women leaders, people leading in research and in the universities, decision makers and political leaders."



Prof Alfonso Alfonsi

They are all trying to advance Africa and its destiny through science and technology by taking responsibility of what these can do or should do and this conference had a lot of strategic thinking showing practical and viable solutions, Prof Alfonso added. "There were lots of brilliant ideas aimed at innovations and what can be done on issues that affect the daily lives of millions in Africa. The manifesto is Africa's response to global challenges through STI."

Professor Alfonso Alfonsi outlined the activities of the SET-DEV, European Commission funded project aiming to support the research system of India and Kenya by assisting them in developing their own perspectives on the socialization of scientific and technological research. A component of SET-DEV was the production of manifesto initiative "aims to bring science closer to African societies and to promote collective responsibility towards science and technology through the democratization of science."

Originally conceived as a manifesto for Kenya, the ATPS decided to extend the initiative to cover the whole continent following consultation with members also committing some of their own funds to enable this extended scope. There was general support for the idea of an African Manifesto on STI, written by Africans, for Africa, echoing many of the broader presentations highlighting the need for home-grown enterprises to drive the continent's development.

Science, Technology and Innovations for African Development

Maize an important factor for food security in Africa



LL ATPS research capacity building programs address Science Technology and Innovation capacity building priorities of African countries identified by network members and partners, African national governments and African stakeholders. These programs specifically focus on knowledge generation and circulation, knowledge basis and infrastructure, knowledge circulation and networks, as well as knowledge conditions and policies for sustainable development in Africa. The key concern of the ATPS Research and Research Capacity Building Programs is therefore to close the loop through generation and valorization of new knowledge in areas where there are obvious Science Technology and Innovation policy gaps, through training, outreach, knowledge brokerage, dissemination and advocacy in key thematic areas identified by members and stakeholders. These programs focus on facilitating innovation capacity development at individual, institutional, country and regional levels.

#### **Regional Research Projects**

#### **Agricultural Innovations Program**

The ATPS Agricultural Innovations Program is aimed at contributing to the achievement of the UN Millennium Development Goal number One (MDG 1) which calls for the eradication of extreme poverty and hunger and halving hunger and poverty by 2015 in relation to 1990. To realize this Africa must build its institutional capacities in Agricultural science, technology and innovation. A fundamental analysis of the underpinning national and regional strategies, policies, institutions and actors in the agricultural and allied sectors as well as the inter-linkages amongst them is required to form the basis for responsible innovation responses to the complex challenges in the agricultural systems for development. This forms the main focus of the ATPS Agricultural Innovations Program. Since the inception of the ATPS Phase VI Strategic Plan, two initiatives have been launched under the Agricultural Innovations Program. One being the Regional studies on Agricultural Innovations and Emerging Technologies for Climate Change Adaptation and Food Security in Africa and the second being the Universities, Business and Research in Agricultural Innovations (UniBRAIN) For more on the UniBRAIN Programme see pages 27 and 30.

#### Agricultural Innovations and Emerging Technologies for Climate Change Adaptation and Food Security in Africa

The ATPS is currently conducting regional research on agricultural innovations for climate change adaptation in Africa. The regional grant call for proposals targeted applications from West Africa Anglophone (Nigeria, Ghana, Sierra Leone, Liberia, The Gambia), West & Central Africa Francophone (Senegal, Cote d'Ivoire, Benin, Burkina Faso, Cameroon & Mali), and Southern Africa (Zimbabwe, Botswana, Zambia, and South Africa). The specific objectives outlined in the Call for Proposals were six-fold, namely:

- i. To mainstream the concept of innovation in African agriculture through targeted training and field demonstrations in selected countries,
- ii. To identify and document indigenous and emerging innovations and good practices for improving food security in the face of climate change in Africa and elsewhere,
- iii. To develop a system based integrated innovation systems framework for improving agricultural productivity in Africa taking into consideration climate change and global financial crisis.
- iv. To build the capacities of African Young Professionals, Women and Policymakers on agricultural innovation systems through an integrated capacity building training programs including hands-on case studies, farm placements and country tours to show case and learn from good practices elsewhere.



Dairy farming in Moi's Bridge. Photo | BENJAMIN SITUMA

- v. To enhance individual and institutional behavioral changes towards sustainable farming and other agribusinesses innovations in Africa.
- vi. To support the implementation of the NEPAD CAADP program through popularization and policy advocacy.

A total of fifteen (15) proposals were received from Burkina Faso, Cameroon, Ghana and Nigeria. The proposals were subjected to intensive peer and expert review culminating in the commissioning of three (3) regional grants targeting the Western Africa region. The first regional grant for US\$50,000 covers Nigeria, Liberia and Sierra Leone under the Principal researcher Agwu Agwu Ekwe together with researchers Festus Amadu (Sierra Leone) and Mustapha Sawi (Liberia) who are putting together a paper entitled Agricultural Innovations for Climate Change Adaptation and Food Security in West Africa: The Case of Nigeria, Ghana and Sierra Leone.

The second grant amounting to US\$40,000 covering Ghana and Gambia was released under the principal researcher Akon -Yamga Gordon, assisted by Paul Boadu (Ghana), Joyce Amoako (Ghana), Beatrice Darko Obiri (Ghana) and Fatou Janha Mboob (Gambia). Together they are working on the topic, Agricultural Innovations for Climate Change Adaptation and Food Security in Africa: The Ghanaian Perspective

The third regional grant for US\$40,000 covers Cameroon, Central African Republic and Equatorial Guinea. Under the research leadership of Ngoh Siri Bella, Mafany George, Teke Sylvester and Ndeso Atanga are all working on the paper Agricultural Innovations and Indigenous Knowledge as Keys to Ensuring Food Security in the South West Region of Cameroon.

For a summary of the regional grants covered under this activity, please see Annexe 1.

# Intellectual Property Rights Program: Regional Steering Committee Inaugurated

Twelve renowned IP Experts from relevant institutions were identified and invited to serve on the Regional Steering Committee to spearhead the effective running of the regional network on IP. The composition included the IP National Steering Committee (NSC), IP researchers and members of the ATPS National chapters in the IP implementing countries, relevant national and regional IP offices as well as relevant Ministries. Out of these, eleven experts, representing key institutions have been confirmed as members of the RSC for the IP program. The Regional Steering Committee will provide the platform for external peer review of the IP program implementation, knowledge sharing, coordination of the regional IP network, capacity building and sensitization. Other institutions that have been invited to the RSC include World International Property Rights Organization (WIPO) and selected state institutions such as the National Office to Technology Acquisition and provision (NOTAP) of the Federal republic of Nigeria.

The RSC was formally inaugurated on 29th April, 2010. Seven of the twelve members of the committee were in attendance from key institutions including the African Union (AU), Wageningen University (WU), the Netherlands; the ATPS, Biotechnology Trust Africa (BTA); Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA), African Biotechnology Stakeholders Forum (ABSF). Also in attendance were Mr. Peter Munyi an IP expert and the Chief Legal Officer at the International Center for Insect Physiology and Ecology (ICIPE), representing Dr. Victoria Henson-Apollonio.

### National Steering Committees on IP Program established

To ensure proactive engagement of the National Chapters in the coordination of the IP program, the ATPS liaised with the National Chapter Coordinators to established a 5-person IP national steering committees (NSCs) in Ethiopia, Uganda, Malawi, Swaziland, Kenya, Lesotho, Zimbabwe and Tanzania. Selection of members of the committee followed a rigorous process of identification of relevant institutions and IP experts in the national chapters by the National Chapter Coordinators and review/short listing and appointment of members by the ATPS and her partner, Biotechnology Trust Africa (BTA). These committees have since been running and networking with relevant institutions in their respective countries. The processes of establishing NSCs in Mozambique are in progress. The ATPS is taking care to ensure that membership of the NSCs includes relevant IP institutions and experts in the selected countries to ensure effective ownership and implementation of the program outputs and policy recommendations, upon completion.

#### National Case Studies on IP Programme Making Good Progress

Following the call for proposals on Traditional Knowledge Systems and Increasing Access to Benefit Sharing of Intellectual Property in Africa issued in September 2009, the proposal tournament held in Abuja Nigeria in November 2009, and subsequent approval of the shortlisted proposals by the 16th ATPS Board, five country case studies have so far been commissioned in Malawi, Ethiopia, Kenya, Lesotho and Tanzania. The sixth case study from Uganda national chapter was finally commissioned following the submission of a different proposal by a different team after the initially approved proposal failed to satisfactorily address comments from the Independent International Expert Panel of reviewers and national chapter coordinators.

Prof. D.M Ndetei leading a team of researchers in Kenya comprised of Anne Mbwayo, Victoria Mutiso and Lincoln Khasakhala is working on Traditional Medicine: Mental Health and Behavioural Practices. In Malawi Principal Researcher Phiri Dorica Suvye assisted by Chapusa Domino Phiri is working on Ascertaining the Nature of Traditional Knowledge and Traditional Cultural Expressions and the Search for Legal Options in Regulating Access in Malawi. Tanzanian Shemdoe Georges leads the research that he and Loy Mhando are undertaking entitled National Policies and Legal Frameworks Governing Traditional Knowledge and Effective Intellectual Property Systems in Southern and Eastern Africa: The Case of Traditional Healers in Tanzania.

The research undertaken by Ethiopia is now complete. Principal Researcher Solomon Tibebu worked with Wondwossen Belete, Getahun, Dechasa Angecha and Habtamu Gujabayu on the Assessment of Possible Intellectual Property Protection Options of Traditional Knowledge System in Ethiopia. In Lesotho Principal Researcher Lebese Lekholoane is still working with Pitso Masupha, Thlako Mokhoro, Maseqobela Williams, Lieketseng Tjokotsi, Sekoja Phakisi, Lefa Thamae and Mamolise Falatsa on the title The Impact of Intellectual Property Rights and Multi-Media on Acquiring and Managing Traditional Knowledge Systems. Job Wanakwakwa leads the team comprising of Munabi Catherine, Lwanga Herbert and Dr. Muhumuza Denis in the research paper entitled Empowering Traditional Herbalists in Uganda to benefit-share better from their knowledge and skills in collaboration with other Researchers and Innovators in the Government, Civil and Business sectors.

All these studies on Traditional Knowledge Systems & Increasing Access to Benefit Sharing of Intellectual Property in Africa are now at advanced stages and some final reports were presented at the ATPS Annual Conference and Workshops, 2010. Some working papers produced from this study are now in the ATPS Publications pipeline.

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#### Background Study on IP in Eastern and Southern Africa concluded

A study on IP Environment in eight countries including Ethiopia, Kenya, Lesotho, Malawi, Mozambique, Swaziland, Tanzania, and Uganda has been concluded. The report of the study is currently under review. For monitoring and evaluation, a mid-term review was held from 24 to 26 May, 2010 in Nairobi, Kenya. The ATPS and BTA have continued to work with these countries to build necessary capacity to implement the studies successfully and to achieve the required impacts. A final review workshop was held on 27 November 2010 in Cairo, Egypt where final outputs from four of the six case studies commissioned were presented. The four case studies presented were from Ethiopia, Kenya, Lesotho and Tanzania. Unfortunately, researchers undertaking the case study in Malawi were unable to attend the workshop and therefore their outputs were not presented. The sixth case study commissioned in Uganda which commenced later in August 2010 is well under progress. Two more proposals are also expected from Swaziland and Zimbabwe.

#### **Small Grants Research**

#### Indigenous and Emerging Technologies for Climate Change Adaptation in Africa- eleven small research grants effected

This activity aims to support case studies on indigenous and emerging agricultural technologies and innovations for climate proofing agriculture in Africa. The Call for Proposals targeted a series of country case studies planned to map and document indigenous and emerging agricultural technologies and innovations for climate proofing agriculture in Africa. The specific objectives of the research activities under this call were three-fold.

i. To identify and document effective indigenous and emerging technologies and innovations for climate change adaptation and resilience in Africa;

ii. To build the capacities of African Young Professionals and Women to adapt to climate change impacts in their communities, localities and countries; and

iii. To enhance behavioral changes towards climate change adaptation measures at individual and institutional levels.

A total of 22 proposals were received from nine African countries including Egypt, Ghana, Kenya, Lesotho, Malawi, Nigeria, Sierra Leone, Tanzania and Uganda. The proposals were subjected to thorough peer and expert review which saw the commissioning of eleven small grants under this program with a budget of US\$13,500 each. The grants were commissioned in six countries including Egypt, Ghana, Lesotho, Malawi, Nigeria, Sierra Leone, and Tanzania.

Nigeria under this programme undertook a research on the Assessment of the incidence of Climate Change and Indigenous Innovative Adaptation Measures in Northern Nigeria. This research was under the principal leadership of Kaletapwa Farauta assisted by Yusuf Lawan Idrisa and Victoria Chinwe Agu. Lesotho presented a paper on the Assessment of the Impact and Adaptive Capacity of the Machobane Farming System to Climate Change in Lesotho. This study was done under the principal guidance of Godeto T.W with Olaleye A.O, Mekbib S.B, Mokhothu, M.N and Masia J as the Co-researchers. Both the Nigeria and Lesotho studies are completed and the working papers, research papers and policy briefs are under review.

In Tanzania Shemdoe Riziki undertook a study on Tracking Effective Indigenous Adaptation Strategies on Impacts of Climate Variability on Food Security and Health of Subsistence Farmers in Tanzania, while Nzeadibe Chidi assisted by Nnaemeka, Chukwuone Victoria, Chinwe Agu and Nassi H. Mandu all of Nigeria did a study on Climate Change Awareness and Indigenous Adaptive Technologies in the Niger Delta Region of Nigeria. Both these studies are completed and the working papers, research papers and policy briefs taken to press. Dr. K.Adebayo, worked with S.O Iposu, J.J. Atungwu, F.O.A George, Temitope Ayinde, A.O.S Ayanwale, O.S. Fashola, T.A Dauda and S.L Rikko from Nigeria, worked on a study entitled Emerging and Indigenous Technology for Climatic Change Adaptation in the Farming Systems of Southwest Nigeria. In Ghana, Mahu Seth Agbeve and Vadim Belotserkovsky conducted a study on Wind Resource Assessment for Sustainable Development in Rural Ghana- A Science, Technology, and Innovation Research Capacity Building Initiative. These two studies are also completed and the working papers, research papers and policy briefs taken to press.

An Assessment of Indigenous Climate Change Adaptation Practices in Smallholder- Agriculture of Southeast Nigeria is a study that was done under the leadership of Enete Anselm, assisted by Ignatius Madu, E.A Onwubuya, A.N Onyekuru, Mojekwu Josephat and Staff Sgt (rtd) Fidelis Eze. The Study of Technological and Farming Systems Adaptation to Climate Change in Farming Communities of Enugu State, Nigeria was done by Emeka Celestine, Peter Nzeh and Rita Ogugua. Both of these studies from Nigeria are completed and the working papers, research papers and policy briefs taken to press.

Morlai Teddy led a team of researchers from Sierra Leone comprised of Kelleh G. Mansaray and Gibril Vandi in the study of Knowledge based Integrated Mapping of Climate Change Adaptations: Indigenous Responses, Techno-Scientific Observations and Future Outlook for Food Security, Health and Disaster Management in Sierra Leone. Samra Manal and Ahmed Abdel Hamid of Egypt carried a study on Sensitizing and Building the Capacity of Women towards Climate Change Consequences in Northern Lakes of Egypt. A study on Enabling Rural Innovation for Climate Change Adaptation and Livelihood Security was done under the principal guidance of Magombo Tennyson assisted by Mutisungirire Kachulu, George Kanthiti, Hilda Kabuli and Grace Chawezi Phiri all of Malawi. The three studies have since been completed and the working papers, research papers and policy briefs taken to press.

A summary of the small grants can be found in Annexe 1.

#### Mid- Term Review Workshop on ATPS Programs

To evaluate and monitor the progress of the studies implemented, ATPS convened a progress review and methodology workshop from 24 - 26 May 2010 for all the researchers who received the grants. The workshop brought together the grantees and the

Coordinators of each program for progress reporting and peer reviews of ongoing work. The workshop also featured methodology training and covered a wide range of subjects including undertaking of field work, quantitative and qualitative data analyses tools needed for the successful analyses of the project outcomes, in-depth review of the relevant science areas, as well as technical and financial reporting requirements, among others. A final review workshop was held in November 2010 at the ATPS Annual Conference and Workshop in Cairo, Egypt.

Overall, there have been significant achievements with most projects at the final stages of completion. The projects have also been able to demonstrate good scientific and innovation quality, and local relevance that are scalable in the region. The CSP program on building resilience capacity has therefore been very timely and instrumental in raising awareness amongst the target stakeholders on the need for resilience capacity building for climate change adaptation in the selected case studies.

#### National Study on Greening the Kenyan Economy

This activity is planned for 2011 with ongoing logistical planning and negotiations with the Kenya Government as we await the release of the necessary funding from UNEP. Initial implementation meetings were held with UNEP and with Honorable Rachel Shebesh, of the Kenya Parliament to organize a kick off Parliamentary round table meetings to kick start the process.

# International Collaborative Research

#### Partnership with FARA, ANAFE and PANAAC on Agricultural Innovation and Agribusiness Incubation the UniBRAIN Initiative

In 2010, ATPS collaborated with the Forum for Agricultural Research in Africa (FARA), African Network for Agro-forestry Education (ANAFE) and Pan African Agri-Business Consortium (PANAAC) to implement Agricultural Innovation and Agribusiness Incubation. This initiative was undertaken through universities, and was dubbed Universities Business and Research in Agricultural Innovation (UniBRAIN)

UniBRAIN which was approved by the Danish Government in December 2009, aims at promoting innovation and producing graduates with entrepreneurial business skills and research-based knowledge that is relevant to the development of African agriculture and agribusiness by seeking to improve teaching, learning and knowledge sharing in agriculture, agric-innovation and agri-business. The first phase of the program commenced in January 2010 with ATPS facilitating formation of innovation incubations and parks and providing the framework for intellectual property on the project.

# Visit to Universities and Incubation Camps in Africa and Europe

ATPS team joined other members from ANAFE and UniBRAIN Coordinator, Ralph Kauffman, in visiting selected universities and relevant innovation incubation initiatives in Africa and Europe with a view to popularize the UniBRAIN concept. The visits also focused on sensitizing stakeholders on the need for agribusiness innovation incubation in Africa while gaining insights from current practices in existing innovation initiatives. The study tours conducted under this program are summarized below.

#### Agribusiness Incubators' Workshop, 6-7 August 2010

ATPS organized an Agribusiness Incubator's Workshop from 6 – 7 August 2010 at the Nairobi Safari Club, Kenya.

The workshop was part of an ongoing collaborative UniBRAIN project. The workshop brought together 31 agribusiness incubator stakeholders from four African countries namely Egypt, Kenya, Uganda and South Africa to share their ideas on factors that contribute towards the success of incubators and also learn from each other. The workshop provided a platform for stakeholders to interact and forge links that will contribute to the success of the UniBRAIN initiative. The Proceedings of the workshop and visits to agribusiness innovation incubators/incubatees in Africa have been prepared and sent to the press for publication.

#### UniBRAIN Study Tours and Management Meetings

ATPS Executive Director, the CEO and Executive Secretary of PANAAC and ANAFE, together with the UniBRAIN Program Coordinator visited selected universities and agribusiness incubators in Denmark. The meeting also featured management review meetings with DANIDA officials and collective reflections on the way forward.

Country	Institutions Visited			
Kenya	University of Nairobi, Kenya Jomo Kenyatta University of Agriculture & Technology, Kenya Kenya Industrial Research and Development Institute, Kenya			
Uganda	Makerere University, Uganda Kyambogo University of Technology, Uganda			
Egypt	<ul> <li>Food Technology Centre (FTC)</li> <li>SEKEM Initiative</li> <li>Agricultural Researcher Center (ARC) of the Ministry of Agriculture and Land Reclamation and the International Trade and Marketing Company (ITM), Egypt</li> </ul>			
Ghana	<ul> <li>Council for Scientific and Industrial Research (CSIR-STEPRI)</li> <li>Ghana Garments Cluster</li> <li>Wood Cluster Initiative</li> </ul>			
Benin	<ul> <li>Benin Chamber of Commerce</li> <li>Ministry of Small and Medium Scale Enterprises</li> <li>Agency for Financing Local Development</li> <li>SONGHAI Integrated Systems</li> </ul>			

Table 1: Country Study Tour to Agricultural innovation incubators/incubatees in Africa



Salma Khashaba, an AYFST member from Egypt addresses the gathering at the annual conference. ATPS

The inception phase of the UniBRAIN project was evaluated by external reviewers appointed by DANIDA. The review workshop which took place in Nairobi featured a critical review of the work in progress and reports by each UniBRAIN partner. The work plan and budgets for the start-up phase, 01 August – 31 December 2010, was also reviewed.

The review reports were largely favorable with some amendments of the planned implementation activities recommended by the reviewers. The work plan and budget for the start-up phase, is however yet to be approved by FARA which holds fiduciary responsibility for the grant. UniBRAIN has since agreed on the work plan and budgets and submitted the funding request to FARA.

A monitoring and evaluation workshop was organized by FARA on October 26-27 2010 in Nairobi, Kenya, for UniBRAIN members as provided in the programme document. The workshop focused on developing an overarching M&E system that will make maximum use of the existing systems of partners (ATPS, ANAFE, PANAAC and FARA) and add new requirements where existing systems do not provide sufficient coverage. It also aimed at developing the Performance Monitoring Framework (PMF), Performance Monitoring Plan (PMP) and budget for M&E activities. The workshop was fruitful in re-aligning projected milestones, activities and indicators for UniBRAIN in line with its strategic objectives. Overall, implementation of UniBRAIN project has progressed well and it is hoped that the pace of implementation will progress even faster in the coming year particularly because pending issues on funding have now been ironed out with FARA.

## UniBRAIN Monitoring & Evaluation Workshop, October 2010

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Overall, implementation of UniBRAIN project has progressed well and it is hoped that the pace of implementation will progress even faster in the coming year particularly because pending issues on funding have now been ironed out with FARA.



A cross section of delegates keenly follow the proceedings of the 2010 Annual Conference. Photo | ATPS

#### Science, Technology and Innovation Governance Programs

# Collaboration with SET-DEV partners to draft an African Manifesto for STI

2010 saw the continued implementation of the European Framework 7 funded INCO program on: "Science Ethics and Technological Responsibility in Developing and Emerging Countries" (SETDEV). The SETDEV project culminated in drafting of four outputs, namely, two manifestos - an African and an Indian manifesto for Science, Technology and Innovation, and two handbooks on Socialization of Scientific and Technological Research (STR) for Kenya and India. The outputs will be products of multi-lateral dialogue between the SETDEV partners in Africa, Europe and India, and key stakeholders in Africa, Europe and India.

ATPS leveraged SETDEV program to produce a manifesto for STI in Africa. The content and vision of the manifesto was shaped by a dynamic multi-lateral dialogue amongst SETDEV partners and key stakeholders in Africa collated through targeted focus group discussions, bilateral interviews and high level meetings with key officials, round tables, workshops, international conferences and case studies in selected countries across the continent.

The manifesto is an outcome of the engagement of a large number of key expertise and diverse experiences among SETDEV partners in Africa, among them Intermedia-NCG, The University of Maastricht (Netherlands), Laboratorio di Scienze della Cittadinanza, (Italy), Max Delbrueck Centrum fuer Molekulare Medizin (Germany), Minerva Consulting & Communication Sprl (Brussels), Lunds Universitet (Sweden), National Centre for Research (Italy), University of Central Lancashire- Lancashire Business Schools (UK), Centre for Law, Information & Converging Technologies (UK), University of Hyderabad (India), Centre for World Solidarity (India) as well as boundary partners and stakeholders in America and Canada.

ATPS was invited to present the draft manifesto at the Royal Society in England alongside other ongoing manifesto drafting processes in India and globally. The STEPS Centre UK, who published the first manifesto for STI in the 1970's, engaged ATPS while the manifesto was under preparation. STEPS expressed interest to work with ATPS to produce articles and funding proposals on the basis of the manifestos from both organizations. One outcome of these discussions is an opinion article prepared by Dr. Kevin Urama (ATPS) and Dr. Adrian Ely (STEPS, UK) for SciDev.Net which was published on 15 June 2010. The article titled "Adrian Ely and Kevin Urama call for a new politics of innovation built around diversity, poverty reduction and environmental sustainability" can be accessed at http://www.scidev.net/en/opinions/wemust-nurture-a-new-innovation-politics.html.

Following extensive review by partners in Africa, India, and Europe, the Manifesto was published and launched on 27th November 2010 at the 2010 ATPS Annual Conference and Workshop in Cairo, Egypt. The Manifesto was well received by the invited delegates who viewed as both timely and resourceful.

#### Focus Group Workshop on Science Communication and Review of the African Manifesto for STI

ATPS organised a focus group discussion in March 2010 where the zero draft of the manifesto was presented to participants. Prof Osita Ogbu, former Executive Director of ATPS reviewed all multi-lateral dialogue leading to the development of the draft manifesto and provided a synthesis of the manifesto drawing on his wealth of experience in STI policy research, policy advocacy and experience as a policy practitioner on the ground.

#### Drafting the Handbook for socialisation of STI in Kenya

A handbook for socialization of STI in Kenya based on lessons learned from the multi-lateral dialogue and focused group workshops and ethnographic case studies carried out in Kenya is in its drafting stage. ATPS and its European partners carried out a series of focus group workshops and ethnographic research focusing on the good practices at the Kenya National Council for Science and Technology, Egerton University. Ms Wairimu Mwangi, ATPS Research Officer, liaised with the partners to carry out the case study research.

The information gathered from these participatory studies went towards the development of a handbook containing operational standards and protocols to improve the capacity of Kenyan research institutions, civil society Organizations, business associations and public administration in the socialization of Science, Technology and Research. One of the conclusions drawn reached from the rapid assessment of the two institutions indicated that there was some degree of adherence to certain principles which, under the current SET-DEV project, have been defined as core principles. Another conclusion drawn was that such principles are of relevance and significance to STR operations. There is also evidence that some of the areas of socialisation of STR identified under the SET-DEV Project are already being focused upon.

#### National Conference on Privacy and Data Protection Law in Kenya

As part of its ongoing implementation of the SETDEV project, a national conference on Privacy and Data Protection was held on 21 September 2010 in Nairobi, Kenya. This initiative was led by Prof Joseph Canatacci of the University of Central Lancashire one of the eleven partners in the SETDEV consortium.

Coincidentally, this conference tackled the theme of Privacy and Data Protection barely a month after promulgation of a new constitution in Kenya which introduces radical new provisions on privacy and access to information in sections 31 & 35. Among other things, the conference looked at different options for laws which would act as enabling legislation for the new constitutional provisions.

It also presented ground-breaking new research on the attitudes towards privacy in some of Kenya's indigenous people and will include a presentation by one of the EU's leading experts on the field of privacy and data protection. The conference was attended by 19 stakeholders from key institutions in Kenya invited by ATPS, including the Communications Commission of Kenya (CCK), Centre for Legal Information and Communication in Kenya (CLICK), Kenya ICT Network, the International Commission of Jurists (ICJ)-Kenya and the Ogiek Peoples Development Program. ATPS was represented at the meeting by Ag. Senior Communications and Outreach Officer Mr Marsden Momanyi.

#### Nanotechnologies for Development

ATPS hosted two African PhD students and supported PhD and post doctoral students from India and Denmark researching Nanotechnologies for Development.

The topic centered on creating a Framework for Democratic Governance of Risks in Developing Countries and was done in collaboration with Maastricht University and the University of Hyderabad. ATPS has continued with implementation of the integrated program on "Nanotechnologies for Development in India, Kenya and the Netherlands which will address the inevitable risks and benefits associated with emerging technologies, such as nanotechnology. ATPS role in the project involves establishing and hosting the NANODEV website to enhance its role as a knowledge broker in the emerging field. The project is led by Prof Wiebe Bijker.

Science, Technology and Innovations for African Development

Ms. Lucy Muchoki, CEO of PanAAC and Dr. Kevin Urama, the ATPS Executive Director, exchange greetings after signing an MoU between the two institutions.



Dr H.M Chimoyo (right) and Mr. Marsden Momanyi exchange greetings after signing a Memorandum of Understanding between the ATPS Malawi chapter and the NCST Malawi for collaboration between the two institutions.. ATPS

**TPS** has continued to place a premium on building partnerships and collaborations. In 2010, ATPS continued consolidating partnerships and cooperation with relevant STI institutions in Africa and globally. Six Memoranda of Understanding (MoUs) were signed and a number of partnerships are under discussion.

#### International Round Table Discussion Forums

ATPS has continued to engage in international policy dialogues in various fora including relevant global panels, Intergovernmental Panel for Climate Change Adaptation, the International Panel for Sustainable Resources Management, African Adaptation Network and interventions at the 7th African Development Forum Union hosted by the African Union. Other engagements have been with the United Nations Economic Commission for Africa and the African Development Bank amongst many others.

ATPS Executive Director plays key role as a lead author for the IPCC-SRREN report and chairs the working group of the UNEP Resource Panel. He also co-chairs the African Adaptation Network and was a resource person for the African Development Forum section on harnessing STI in addressing climate change in Africa. ATPS role in these international forums has led to increased visibility for the network on the continent and globally. As a result, we have been approached for partnerships on some of our programs by a number of key stakeholders including the UNECA and other international players.

# Trainer of Trainers to promote awareness on intellectual property

A Training of Trainers (ToT) was conducted at the ATPS conference and workshop on November 26 2010 in Cairo, Egypt. The objective was to promote awareness of traditional knowledge, access and benefit sharing and effective IP seed systems at the grass root levels to encourage integration of concerns to National IP Policy and Legal Framework making in participating countries.

Two experts were identified from each participating country to benefit from the ToTs which also featured participation from members of the national steering committee as well as national chapter coordinators. The ToT included assessment of available data from national chapters and deliberations on available promotional materials and those that need to be developed for creating awareness.

#### Developing a Framework for Interactive Collaborative Environment (ICE) for Climate Change Adaptation

This aim of this activity is to design and implement a web-hosted Integrated Collaborative Environment (ICE) for climate change adaptation and resilience capacity building in Africa for climate change knowledge circulation and knowledge valorization. ICE will be web-hosted and will function as a climate market place where stakeholders can ask questions and receive leading answers and directions from core experts. ICE addresses the need to strengthen climate resilience by providing quadruple helix stakeholders with an integrated collaborative environment where easy access to better structured and interconnected knowledge and intelligence tools can enhance capacities to understand, harmonize and cooperate in efforts to build climate resilience in Africa and elsewhere.

Generally, ICE will have the latest digital development, including web-wikis, blogs, forums, file sharing and secure threaded discussions. Participation in the ICE can be in real time or off-line, depending on the topics and type of participation. ICE will put in place a team workspace, for implementing document management, web calendars, workflows and all group working support functions. Real time tools will allow stakeholders to implement virtual conferences on specific climate change related tasks (policy development, modeling challenge, data management, research questions, etc). This platform will be a module-based solution scalable in terms of number of users that can access it and functions performed through further integration according to the future development of the action.

The ATPS has also put in place a framework and is in the process of developing an Interactive Collaborative Platform (ICE) for climate change knowledge circulation and knowledge valorization. The ICE will be web-hosted and will function as a Climate market place where stakeholders can ask questions and receive leading answers and directions of core experts to be contacted for further advice and/or available relevant resources.

#### Joint Participatory Dialogue on STI Policy Issues

# Training of NAFDAC on National Systems of Innovation & Clinical Trials

ATPS participated in NAFDAC capacity building workshop on National Systems of Innovation and Clinical Trials in Abuja, Nigeria. With the successful signing of the MoU on National Systems of Innovation in Nigeria, in August 2010, plans are underway to ensure its continued implementation in the year 2011.

#### UNESCO Global Science Report for 2004-2010

Dr Kevin Urama was invited by UNESCO to partner with other colleagues to write the African chapter of the UNESCO Science Report, 2010. This UNESCO led book volume is published every 5 years on the state of Science and Technology globally. During the process, ATPS discovered that there is paucity of data and information on STI indicators in many African countries, hence the proposal to start a biennial publication on the subject. The chapter is now complete and has been published by UNESCO with due acknowledgements given to the ATPS as lead contributing authors for the African chapter. The editor of the global report, Ms. Susan Schneegans from UNESCO Paris attended the ATPS annual conference and workshops in Cairo, November 2010 and presented the report's key findings to the delegates.

Launch of the Biennial Publication on the State of STI in Africa Following the approval by the 17th ATPS Board, ATPS secretariat launched and is in the process of publishing biennial report on the State of STI in Africa. Key experts were identified and invited to the first workshop to refine and harmonize the indicators of measuring progress in STI for development across the continent. An initial template was circulated to ATPS national chapters for comments during the process of drafting the African chapter on the State of STI in Africa – a book chapter in the UNESCO Science report, 2010. Contributions to the biennial report were received from delegates who attended the 2010 ATPS Annual Conference and Workshop held in November 2010 in Cairo, Egypt. Key experts were given an opportunity to make presentations on STI related issues with perspectives from their respective countries. The revised manuscripts from the presenters are currently under review with an aim of publishing them in the biennial report.

#### ATPS/RMRDC/NUC/NOTAP/World Bank & STEP B Project Collaborative Conference

Dr. Kevin Urama represented ATPS at various meetings held with partners to plan for the joint activities under the ATPS/RMRDC MoU for the year 2010. Following successful discussions and negotiations, the Director General of the RMRDC offered to allocate an office for the National Systems of Innovation (NSI) Steering committee which is chaired by the ATPS. This is in addition to provision of equipment, stationery and other office facilities and delegation of a dedicated RMRDC staff, NOTAP Staff and NUC staff for the effective running of the NSI Secretariat. The ATPS Secretariat has encouraged ATPS-Nigeria National Coordinator, Prof Michael Madukwe to explore ways of leveraging this opportunity to strengthen the presence of the ATPS Nigerian Chapter in Abuja. Prof Madukwe and other key ATPS members in Nigeria are also members of the NSI Steering Committee.

#### International Panel for Sustainable Resource Management (the Resource Panel in Kenya, Belgium, Sweden, Israel and South Africa)

In 2009, Dr Urama was appointed a member of the UNEP Resource Panel for Sustainable Natural Resources Management, 2009 – 2011. He was subsequently appointed chair of the Sustainable Water Management Working Group of the Panel. ATPS received a contract from UNEP to support the publication of a book volume on Decoupling, Water Efficiency and Water Productivity with case studies globally. The Panel also supports Dr Urama's participation in the Resource Panel's meetings with the Steering Committee comprised of many UN Member Governments globally. This provided a cost effective avenue for popularizing work done under the ATPS Water & Environmental Sustainability Program and mainstreaming STI in these global policy dialogues.

ATPS hosted the Water Working Group of the Resource Panel with delegates from Europe, South America, USA, India and Africa in March 2010, to discuss the First Report of the Working Group. This activity is expected to produce four global reports on water and environmental sustainability with contributions from leading experts in Europe, Asia, North, America, Australia China, Thailand, Japan, the Philippines, and Africa. Dr Urama has participated in subsequent meetings in Brussels, Belgium (June 2010), Stockholm, Sweden (September 2010) and Tel Aviv Israel (November 2010) to discuss the progress of the reports as the compilation and preparation process unfolds. This activity has played a key role in mainstreaming STI in UNEP's response to the global sustainability challenge and also provided opportunities for popularizing STI amongst the key Stakeholders and members governments associated with the Panel.

#### Fourth Lead Author's Meeting for the IPCC-SRREN, 20-24 September 2010, Mexico

Dr Urama was appointed Lead Author for the Intergovernmental Panel on Climate Change (IPCC) Special Report on Renewable Energy Sources and Climate Change Mitigation. He was subsequently invited to the Fourth Lead Authors' Meeting in Mexico, at which he was nominated as part of the team to draft the Summary for Policy Makers for the Fourth IPCC report. This invitation followed his earlier invitation to the IPCC Working Group III meeting held in Washington DC in February 2010 as an Expert Reviewer. IPCC is a key authority deliberating renewable energy and climate change issues and hence provides useful contacts and resources for the ATPS Climate Sense Programme activities.

# Strengthening Partnerships among the Quadruple Helix

#### MoU between ATPS and AID-ME, Egypt

ATPS signed an MoU with the Academy for International Development - Middle East (AID-ME) of Egypt that will see both organizations collaborate in the joint development and implementation of mutually relevant projects, knowledge and information exchange and joint fundraising. Under the MoU, Ms. Manal Moustafa Samra was appointed the National Focal Point Coordinator responsible for overall supervision of all ATPS activities in Egypt in liaison with ATPS Regional Secretariat Management. The MoU will also allow AID-ME to coordinate the process of securing formal registration of ATPS National Chapter in Egypt as an affiliate chapter of the ATPS in Egypt by the year 2012, coordinated by a National Coordinator to be elected in accordance with ATPS Policies and Procedures. AID-ME collaborated with ATPS to host the 2010 Annual Conference and Workshop in Cairo, Egypt and facilitated the participation of key delegates to the conference including Prof. Maged El-Sherbiny, the President of Scientific Research and Technology (ASRT) who is also the Assistant Minister in the Ministry of Scientific Research, policy making and Government, Cairo, Egypt.



Ms Manal Samra, the focal point coordinator ATPS Egypt chapter. ATPS

#### MoU between ATPS and NCST Malawi

Further to the decisions of the 17th ATPS Board, ATPS and the Malawi National Commission for Science and Technology entered into a partnership that will see both institutions work together. The partnership will see ATPS provide leadership in STI through evolving thematic and non-thematic strategic priorities while the NCST Malawi hosts the ATPS national chapter in Malawi. Mr Marsden Momanyi was in Malawi in September 2010 to represent the Executive Director at the signing ceremony of the MoU firming up this partnership. The event was covered by the Malawi Broadcasting Corporation and other media organizations present at the event.

# MoU for Establishment of a National Systems of Innovation for Nigeria

On August 13 2010, ATPS entered into a joint MoU with the National Universities Commission (NUC), Raw Materials Research and Development Council (RMRDC), National Office for Technology Acquisition and Promotion (NOTAP) and the Science and Technology Education Post Basic Project (STEP-B) all based in Abuja, Nigeria. The MoU is geared at establishing a National Systems of Innovation (NSI) for Nigeria. Under the MoU, the four agencies which constitute the National Steering Committee (NSC) purposed to promote the sharing of information among themselves on all relevant innovation related activities to ensure synergy and strategic pool of resources for sustainable development. The NSC is chaired by the ATPS represented by Dr Kevin Urama.

#### MoU between ATPS and Science Africa Ltd

On July 22 2010, ATPS signed an MoU with Science Africa that will see both institutions collaborate in conducting training programs on sciences, technology and innovation policy tailored for journalists and artists. The MoU will also see the two organizations jointly conduct at least one training program for journalists and artists. Under the MoU, Science Africa will provide media and publicity services and produce reports for these training programs.

#### MoU between ATPS and PanAAC

A MoU between ATPS and Pan African AgriBusiness Consortium (PanAAC) was signed on 20 May 2010. Under the MoU, both parties will continually explore and develop areas of collaboration that aim to harness and improve mutually benefiting capacities and networking resources. They will also work to sustain evidence-based knowledge about target sectors/industries through mutually arranged mechanisms including task-oriented staff exchanges, knowledge-based dialogue, research communication and joint programs with affiliate organizations.

#### MoU between ATPS and RUFORUM

A MoU between ATPS and Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) was signed on 16 May 2010. Under the MoU, both parties will continually explore mechanisms of strengthening the existing collaborations and partnerships. The MoU will also see the two organizations collaborating in joint fundraising on subjects of mutual interest as well as conduct training programmes on sciences, technology and innovation policy designed for policy makers, policy analysts, parliamentarians, journalists and researchers.

# Partnership with the Kenya National Council of Science and Technology (NCST)

ATPS Secretariat has also strengthened partnership with relevant STI and state institutions in Africa including the Kenya National Council of Science and Technology (NCST). The council has been receptive to the idea of engaging the ATPS-Kenya chapter in discussions on how to ensure that the chapter takes a proper stage in national STI policy dialogues in Kenya. The NCST partnership has further been consolidated with the appointment of the NCST Executive Secretary, Prof. Shaukat Abdulrazak to the ATPS Board. Discussions are ongoing regarding the hosting of the ATPS Kenya by the NCST Kenya accordingly.

#### African Academy of Sciences (AAS)

Dr. Iba Kone of the African Academy of Sciences (AAS) has expressed a willingness to partner with ATPS especially on their climate change programs. Discussions on potential MoU between ATPS and the AAS on how to take forward the partnership is currently ongoing.

#### African Economic Research Consortium (AERC)

Dr. Urama has initiated discussions with AERC regarding possible collaboration. The Executive Director of AERC has expressed interest in taking forward the discussion. Areas of potential collaboration include the ATPS role in disseminating research results to policy makers through its network of national chapters and also initiatives of the AERC on the economics of climate change, among others.

# Other Ongoing Collaborations and Institutional Networks

During this period, the ATPS has continued to build and strengthen partnerships and collaborations with key stakeholders in Africa and internationally. Some of the institutions that have continued partnering with ATPS for implementation of STI relevant activities during the year include the Federal Ministry of Science and Technology (FMST), Federal Republic of Nigeria; Raw Materials Research and Development Council (RMRDC), Federal Ministry of Environment, Nigeria; and Africa Nations Development Program (ANDP) among many others. Indication of willingness to work with the ATPS has been received from the NCST Kenya, Uganda National Council of Science and Tehcnology (UNCST), Tanzanian Commission for Science and Technology (COSTECH), African Academy of Sciences (AAS), Africa Climate Policy Center (ACPC), Social, Technological and Environmental Pathways to Sustainability (STEPS) Centre, UK, and others.

These partnerships will significantly increase ATPS' role in knowledge brokerage, valorization and policy advocacy both in Africa and beyond. These partnerships have also enhanced ATPS' engagement with like-minded institutions in building STI capacity in Africa through collaboration. Brief reports on ongoing discussions on some of these partnerships are discussed in relevant sections of this narrative report.

#### Support to NEPAD, AU and Other Regional Bodies

Ministerial Conference on Higher Education in Agriculture in Africa, Speke Resort & Conference Centre Munyonyo, Kampala, Uganda, 15-19 November 2010

The ATPS in collaboration with the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) and other development partners including the Development Research Network (DDRN) organized a Ministerial Conference on Higher Education in Agriculture in Africa (CHEA). The conference took place at the Speke Resort and Conference Centre Munyonyo in Kampala, Uganda from 15-19 November 2010.

As part of the conference, ATPS together with RUFORUM and DDRN conducted a Pre-Conference workshop on Strengthening University Competence and Practice for Engagement with Policy from 13-14 November, 2010 following which a parallel event was held on 16 November, 2010 on Placing Agricultural Tertiary Education in Policy Agenda in Africa. The outputs/outcomes from the one day parallel session were used to feed into the plenary session of the Ministerial Conference on Higher Education. The event was used to brainstorm and synthesize relevant recommendations on how to get tertiary education role integrated into country development strategies and policies.



Shongweni spillway equiped by fusegates during flood . WIKIMEDIA COMMONS

The immediate beneficiaries will be universities in Africa and higher education networks concerned with informing policy debates with research based knowledge and advocating for the need to give the highest priority to African tertiary education in agriculture and natural resource; participants in the Ministerial Conference on Higher Education in Agriculture, especially in the parallel session on Theme 5: Placing Agricultural Tertiary Education on the Policy Agenda and in the long term farmers and other agricultural stakeholders on the continent will benefit from returns from higher education

A key outcome of the conference was a Ministerial Communiqué adopted by ministers from 10 countries including Burundi, Ethiopia, Kenya, Lesotho, Mozambique, Niger, Rwanda, Tanzania, Uganda and Zimbabwe. The Communiqué called on the need for renewed and vigorous emphasis by African governments on restoring the quality of higher education in agriculture. It also called for increased investment in higher education in agriculture in Africa and to be included as an integral agricultural development investment in CAADP Country Compacts and Medium Term Agricultural Productivity Programmes, through structured fore sighting.

# African Development Forum-VII, Addis Ababa, Ethiopia, 10-15 October 2010

The Seventh African Development Forum (ADF-VII) was held at UNECA from 10-15 October 2010 in Addis Ababa, Ethiopia. The forum brought together many participants including Heads of State and Government, African member states, development partners, other United Nations agencies, inter governmental and non-governmental organizations, academia, development practitioners, civil society and other stakeholders. The theme of the ADF-VII was Acting on Climate Change for Sustainable Development in Africa and it provided a multi-stakeholder platform to discuss Africa's interests in preparation of the 16th Conference of parties of the United Nations Climate Change Conference scheduled to take place in Cancun, Mexico in December 2010. Dr. Urama's participation in the conference was funded by the AU and UNECA

In recognition of the strategic role that ATPS plays in STI and its pioneering leadership in mainstreaming STI in the global climate dialogue, Dr. Kevin Urama was invited to the conference as a discussant for one of the Focus Breakout Session on the sub-theme: Science, technology, innovation and capacity building. Dr. Urama's participation at the conference was very instrumental as an opportunity to share some of the initiatives of the network with key delegates at the conference. The invitation also enabled ATPS to establish useful contacts that can be followed up to forge links with UN-ECA and the African Union (AU).

#### The third African Congress for Scientific Research and Technology, 2 - 4 November 2010, Cairo, Egypt

ATPS championed the success of its youth and gender empowerment programme at a regional forum - the third African Congress for Scientific Research and Technology held in Cairo, Egypt from 2-4 November 2010. The Acting Senior Communications and Outreach Officer, Mr. Marsden Momanyi represented ATPS at the meeting which brought together youth and women organizations from across Africa, with a focus on science, technology and innovation as the engine for development in Africa. The objective of the congress, which was co-sponsored by the African Union's Human Resources, Science & Technology Cluster Social Affairs Cluster ECOSOCC and the United Nations Economic Commission for Africa among others, was to increase awareness and interest in science, engineering and technology-based professions with a focus on the role of Scientific Research and Technology in Africa's Development and in attaining the Millennium Development Goals (MDGs). Mr. Momanyi presented a paper titled Mindset Change – From problems to solutions which focused on the ATPS Youth Innovation Challenge Programme. The meeting discussed strategies to develop an Africa-wide database of youth and women involved in STI which the ATPS is well positioned to contribute towards.

During the congress, challenges and opportunities for building the capacities of Africa's youth and women were shared as well as best practices by similar initiatives in Africa. It sought to build synergies between the various youth and women STI actors in Africa.

Other partners who sponsored the meeting include: African Society for Scientific Research and Technology (ASSRT), the National Research Center of Egypt, African Alliance for Women Empowerment (AFRAWE), FEMNET and the Science and Technology Committee of the Egyptian Business Women Association.

#### Convening of Rockefeller Foundation Climate Change Adaptation and African Agriculture Grantees, February 4, 2010

The ATPS was invited to present its activities to the Rockefeller Foundation at a grantees' convening held on February 4, 2010, with the aim of harmonizing areas of collaboration, partnerships and adjustments. At the meeting, Dr. Nicholas Ozor, ATPS Post-Doctoral Research Officer made a presentation on the ATPS activities supported by the Rockefeller Foundation. This paved way for creating linkages with other grantees working in related areas. The grantees also discussed the way forward and proposed to form a network, details of which will be circulated as the process unfolds.

#### Jatropha Carcas derived Bio fuel Industry in Africa, February 22 – 23, 2010

The ATPS participated at a meeting on Jatropha Carcas derived Bio fuel Industry in Africa from February 22 – 23, 2010. Dr. Nicholas Ozor, who represented ATPS at the meeting presented a paper titled Roadmap for Sustainable Renewable Energy through Policy. The meeting provided a forum for garnering more in-depth knowledge on Jatropha Carcass and institutions actively involved in promoting sustainable renewable energy in Africa. At the meeting, other organizations in attendance expressed interest in ATPS work, the most notable being Eng. Ishmael N. Machiya from the Zimbabwe Academy of Science who provided a useful link to his country's Ministry of Science and Technology. ATPS will continue to pursue the contacts gained from this meeting.

# Climate Change, Biodiversity and Development, January 27 – 29, 2010

The World Wide Fund for Nature (WWF-EARPO) invited ATPS to a meeting dubbed Naivasha II: Poverty Network in Africa which was held from 27-29 January 2010. The meeting was a follow up to another meeting, also held in Naivasha, Kenya, that resulted in the WWF adopting a position paper on poverty. Ms. Wairimu Mwangi, ATPS Research Officer represented ATPS and presented a keynote paper on Climate Change, development and biodiversity at the meeting. The meeting built on previous interactions between ATPS and WWF-EARPO and it presented a great opportunity for ATPS to introduce the angle of technology and innovation as a tool to achieve both WWF's objectives.

#### African Carbon Forum, March 3 – 5, 2010

Ms. Wairimu Mwangi, represented ATPS at the African Carbon Forum held at the UNON offices in Gigiri, Nairobi from March 3–5, 2010. The purpose of ATPS's participation at the meeting was to explore how carbon markets can provide solutions for climate change management and in



A farm in Mpumalanga South Africa. Photos | WIKIMEDIA COMMONS

charting a green economic path for Africa. There is huge unexploited potential for greening Africa particularly in the area of renewable energy technologies and clean technologies. Most of the developed countries expressed interest in supporting and investing in this area. The meeting provided particularly useful information which ATPS can use to develop its climate sense program and also further explore the proposed project on new technologies for a Green Economy.

# Water Utilization in African Beverage Industries: Current Practices and Prospects, March 24, 2010

A delegation of three officials from ATPS attended a meeting on Water Utilization in African Beverage Industries: Current practices and prospects on March 24, 2010 at the UNEP headquarters in Gigiri, Nairobi. The meeting provided a forum for engaging dialogue on the water efficiency debate particularly on the industrial perspective and was also an informative forum where participants were made aware of the need to participate in the ongoing work on the Resource panel Water Working Group. Dr. Urama made a presentation on the ongoing work under the Resource Panel's Water Working Group, in which ATPS is taking a lead role.

# Sustainable Water Management Working Group of the International Resource Panel, March 28 – 29, 2010

During the reporting period, the ATPS hosted the Water Working Group of the Resource Panel with delegates from Europe, South America, USA, India, and Africa in March 2010, to discuss the First Report of the Working Group. This activity is expected to produce four global reports on water and environmental sustainability with contributions from leading experts in Europe, Asia, North, America, Australia China, Thailand, Japan, the Philippines, and Africa.
#### Rockefeller Foundation Africa Grantee Convened

ATPS delegates amongst other grantees funded by the Rockefeller Foundation (RF) participated in a three day Grantee Convening organized by the Foundation in Nairobi, Kenya, from May 14–16, 2010. The objective of the meeting was to share the work that the Foundation is supporting across the region. It also provided an opportunity for RF to share with its grantees current thinking in moving their initiatives towards utilization of results based management, revamping of the grant making process and also share the availability and the application process of their facilities at Bellagio in Italy for conferences and other residential uses.

ATPS gave a presentation about ATPS and its activities and its science communication initiatives. The event offered a useful platform for ATPS to raise its profile amongst a gathering of Rockefeller grantee organizations and donors present and to share its experience in promoting science, technology and innovation policy research, dialogue and practice for African development. The Managing Director of the Rockefeller Foundation's Africa Regional Office Mr James Nyoru, expressed interest in the ATPS Youth Innovation Challenge (Y I CAN) and Women Innovation Challenge (WE CAN) Programs. This engagement was very beneficial to ATPS as it identified fertile grounds to explore future strategic linkages between the Rockefeller Foundation and ATPS, particularly in communicating STI with policy-makers in Africa. The meeting also created a better understanding for the grantees on the expectations from the Foundation as they implement their activities. The ATPS has now been invited by Rockefeller Foundation to lead a proposal on engaging policy makers to use the research results. The proposal will be in partnership with leading African institutions in this area from Ghana, South Africa and Kenya. ATPS also had an exhibition desk at the event where ATPS outputs were disseminated.

# Roundtable on Economics of Adaptation to Climate Change for Africa for Policy Makers, Development partners and Experts, 27-28 April 2010

Roundtable discussions on Economics of Adaptation to Climate Change for Africa for Policy Makers, Development partners and Experts took place in April 2010 in Tunis, Tunisia. The two day meeting was organized by the Sahara and Sahara Observatory, (OSS) in collaboration with the Stockholm Environment Institute, Oxford (SEI-Oxford) through the support of the United Nations Environment Programme (UNEP), African Development Bank (AfDB) among others. The meeting engaged in evidencebased discussions on the potential costs of adaptation for Africa, which included presentations of recent project work including sectoral results from the UNEP sponsored AdaptCost project, as well as updates from ongoing work by UNDP, AfDB and the World Bank. The meeting identified urgent investment priorities, high-level messages and strategic policy responses, and a way forward for post-Copenhagen. ATPS was represented by Dr. Nicholas Ozor, the Post-Doctoral research Officer.

# National Council for Science and Technology (NCST) Kenya Conference on Harnessing STI for National Development, 03 – 07 May 2010

The Kenya National Council for Science and Technology (NCST) invited ATPS to its 3rd National Conference on Dissemination of Research Results and Exhibition of Innovations which was held in Nairobi, Kenya from May 03 -07, 2010. Dr. Kevin Urama gave a keynote presentation on Science, Technology and Innovation, and poverty alleviation in Africa at the conference whose theme was "Harnessing STI for National Development". The delegation at the meeting included Dr. Peter Ndemere, Executive Secretary of Uganda National Council for Science and Technology (UNCST), Dr. Nicholas Nyange, Chief Research Officer, Tanzania Commission for Science and Technology (COSTECH) and other delegates from UK and Japan. The conference was also graced by Hon.William Ruto, EGH,MP then Minister for Higher Education, Science & Technology of the Republic of Kenya.

# Experts Workshop to Discuss the Draft African Strategy on Climate Change, 16th - 19th November, 2010, Nairobi, Kenya

The Department of Rural Economy and Agriculture (DREA) of the African Union organized an Experts Workshop to discuss the draft African Strategy on Climate Change. ATPS was invited to share its expertise at this event which serves as an indication of its growing visibility amongst regional institutions, and role in shaping policies on the continent.

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# Youth and Gender Empowerment Program



The launch of the Youth Innovation Challenge Program.

**OUTH AND GENDER** empowerment represents an important pillar for Africa's growth and development. ATPS has leveraged its scale and depth of knowledge to invest in this segment of the population with the aim of encouraging innovation and rapid adoption of science of technology which will percolate to the broader community.

In 2010, ATPS accelerated its effort to build the capacities of Africa's youth to engage in STI policy research, dialogue and practice, through the Youth Innovation Challenge (YICAN) Program. These efforts were aligned to ATPS Phase VI program on youth and gender empowerment - a strategic initiative that makes specific commitments to youth and gender issues.

ATPS invited a call for concept papers for the 2010 Youth Climate Change Innovation Award. The aim of this initiative was to build the capacity of Africa's youth in climate change adaptation, mitigation and resilience through science, technology and innovation. Additionally, the challenge was supported by the Climate Sense Program (CSP) which aims to promote climate change dialogue and encourage new scientific breakthroughs, new technologies and innovations to address the climate challenge at all levels of the African society.

# African Youth Forum for Science and Technology (AYFST)

Regional Competitions on Innovation Incubation for Climate Change Adaptation and Mitigation (Y I CAN) In 2010 ATPS initiated regional competitions on STI relevant subjects under the AYTST and YICAN with a specific focus on innovation incubation for climate change adaptation and mitigation, agricultural innovations, poverty alleviation and entrepreneurship programs. This competition provided a great platform for innovation which can only grow. Concept papers from the following categories were invited.



Tana river after busting its banks.. Photo | WIKEMEDIA COMMONS

- i. Ongoing Research Project that includes a tangible "make" or "design" perspective and demonstrates how it will lead to tangible technologies, organizational reforms, or new policies for addressing tangible climate induced problems at local levels. Applications in this category were required to include the full manuscripts on the research project describing tangible technologies, organizational reforms, or new policies and identified funding linkages to impact investors.
- ii. Prototypes of new technologies requiring incubation and up scaling to innovations for climate change adaptation, mitigation and resilience building. Applications in this category needed to be accompanied by letters of support by the prospective Incubation Centres or identifiable funding linkages to impact investors.
- iii.Tangible propositions for local or international Internships/Mentorships and Innovation Incubation Initiatives in selected STI institutions, the formal private sector, or government agency in Africa and elsewhere. Applications in this category needed to be accompanied by letters of support by the prospective Incubation Centres, institutions, government agency or private sector establishments, describing how the "budding innovative idea"

will be incubated into tangible technologies and innovations for development in Africa.

- iv. Empirical case examples of sustainable indigenous knowledge practices in climate change adaptation, impact mitigation and resilience capacity building in rural African communities. This would include indigenous practices by local communities who might not otherwise be able to submit proposals.
- v. Best-case examples on how the challenge and opportunities of climate change can be effectively communicated to policymakers, private sector actors, scientists and the civil society in Africa. In line with the CSP objectives, each application had to make tangible contributions to better understanding of the science, economics, politics, and innovative opportunities in the challenge of climate change, and inform better response strategies through STI.

After successfully launching the competition, diverse and impressive entries were received from 12 African countries, making the selection process not an easy one given the innovativeness, relevance and potential impact on livelihoods among the submissions. 15 concept papers passed through the preliminary stage of review and were shortlisted for further interrogation during the next stage of the selection

process based on their tangible contributions to better understanding of the science, economics, politics, and innovative opportunities in the challenge of climate change, and their potential to inform better response strategies through STI. The second round involved the participation of the lead proponents in a Proposal Tournament organized by ATPS on 26th November 2010, as a parallel event during the 2010 ATPS Annual Conference and Workshop held in Cairo, Egypt. All the 15 proposals shortlisted under this category passed the threshold for fundable proposals as per the scores received from the National Chapter Coordinators and the Independent International Expert Panel of Reviewer (IIEPR) following the rigorous Participatory Proposal Evaluation System (PPES) adopted by the ATPS in 2008. Subsequently, the 15 proposals were approved for funding by the 18th meeting of the ATPS Board. The National Chapter Coordinators and the IIEPR members who participated in the selection process will be actively engaged throughout the implementation stages of the research studies which will be commissioned in the year 2011. Refer to Annex 1 (AYFST)

# AYFST and Youth Innovation Challenge Programme: Steering Committee Meetings

The 5th AYFST Steering Committee meeting and workshop was held on August 9-11, 2010 in Ghana. The Ghana National Chapter of ATPS hosted the three-day event in Accra, the symbolic birthplace of AYFST. The meeting brought together members from Benin, Cameroon, Ethiopia, Ghana, Kenya, Lesotho, Malawi, Nigeria, Sierra Leone, Uganda and Zambia.

The AYFST event was a follow-up to the 4th AYFST Steering Committee Meeting and launch of the Y I CAN initiative that were held from July 13 – 16, 2009 in Mombasa, Kenya as well as the planning meeting for the 2010 Youth Climate Change Innovation Award, held on November 27, 2009 in Abuja, Nigeria.

# Book on Innovation for Climate Change Adaptation and Mitigation in Africa to be published

Leveraging on entries from the regional youth challenge and other research material, a book volume on response to climate change is planned. The book volume is expected to be completed in the year 2012.

# Support to ATPS Youth Internships and Post-Doctoral Summer Placement Program

To accelerate investment in Africa's youth, ATPS introduced student internships. In 2010, seven interns were hosted at the headquarters. They include Ms Hannah Adari a biotechnology graduate from the University of Nairobi and Mr Pascal Ouandji, a journalism graduate from Ottawa University, Canada, Mr Cyprian Nyamweno a Bachelor of Commerce graduate from the University of Nairobi, Mr. Josiah Owiti a Biochemistry graduate from the University of Nairobi, Ms. Sarah Ngetha an International Relations graduate from the United States International University, Nairobi, Ms Joyce Omondi a graduate from Knoxx College, USA and Mr William Firestone a Harvard University graduate. The interns were engaged in the Finance and Administration, Communications and Outreach and Research departments.

The ATPS Secretariat has continued to receive applications for internships and short-term summer placements from experts around the world wishing to strengthen their networks and skills on STI in Africa. The Secretariat hopes to expand this facility in future as a cost effective way of building STI capacity and global network. This is particularly significant for African youth who can potentially learn and gain exposure by engaging in peer to peer knowledge circulation and knowledge networking. To motivate student interns and facilitate their work, they receive KES 8,000 per month as a contribution to their local transport while working at ATPS. International interns and/or their sponsors are expected to cover the cost of their flights, accommodation and subsistence while undertaking internship in Kenya.

# African Women Forum for Science and Technology (AWFST)

# Regional Competitions on Innovation Incubation for Climate Change Adaptation and Mitigation (WE CAN)

Generally, Africa lags behind in regard to advancement of women as relates to involvement in Science, Technology and Innovation. There's therefore a critical need to create an enabling environment for developing women folk to engage in STI. Subsequently, regional competitions on Science, Technology and Innovation (STI) were initiated



A vegetable seller in the city center of Kumasi, Ghana Photo | WIKEMEDIA COMMONS

under the auspices of the African Women Forum for Science and Technology (AWFST) and its twin program the Women Innovation Challenge Program (WECAN). AWFST is an innovative idea which seeks to provide a vehicle through which African women can express their ideas, contribute their expertise and participate in policy and decision-making processes in Africa. Additionally, to build capacity of women on climate issues, a call for proposal on Climate Change Innovation Award, 2010 was circulated to the wider ATPS network and beyond with the following objectives:

i. To identify, document, induce and upscale indigenous and new technologies and innovation for climate change mitigation, adaptation, risk reduction, preparedness and resilience capacity building in Africa

- ii.Harness new ideas, prototype technologies and ground breaking scientific research and/or craftsmanship in designing 'workable solutions' for addressing the climate challenge and harness the development opportunities in "climate change industry" for African development
- iii. Mobilize and support African women to harness and incubate their innovative capacities and entrepreneurship skills in addressing climate change challenges and opportunities in Africa. The Award winners will receive long term mentorship as Climate Innovators in Africa
- iv. Mobilize women across the continent and amplify their voices in making sense of climate science, economics, politics, and opportunities in Africa; and
- v. Mainstream a culture of innovation among African women in finding solutions to development challenges such as climate change

The research output is expected to include a tangible "make" or "design" perspective and demonstrate how it will lead to tangible technologies, organizational reforms, or new policies and best practices for addressing tangible climate induced problems at local levels.

20 proposals were received from eight countries namely: Ethiopia, Mozambique, Uganda, Kenya, Nigeria, Egypt, Tanzania and the United Kingdom (UK). Out of these, 10 proposals were selected from six countries namely Uganda, Kenya, Nigeria, Egypt, Tanzania and the United Kingdom (UK). The selection process was informed by local relevance, scientific and innovation quality, policy relevance of the activities and regional representation of the proposals. The selection process utilized the ATPS Participatory Proposal Evaluation System (PPES) where pre-advice and peer review comments were provided by an Independent International Expert Panel of Reviewers (IIEPR) and the respective ATPS National Chapter Coordinators to inform the preliminary short listing of proposals for presentation at ATPS Proposal Tournament held on 27th November 2010 as a parallel event during the 2010 ATPS Annual Conference and Workshop held in Cairo, Egypt.

The tournament provided opportunities for further review of proposals by the general assembly of the ATPS Network and the IIEPR. Of the 10 proposals shortlisted under this category, 9 were approved for funding by the 18th meeting of the ATPS Board. The research grants will be implemented between January and December 2011. Refer to Annex 1 (AWFST)

# AWFST and WECAN Steering Committee meetings conducted

During the launch of the AWFST program on July 17 2009 in Mombasa, Kenya, an Interim Steering Committee (ISC) was formed to steer the activities and provide governance for the AWFST activities. A resolution was passed with a commitment of conducting an election to confirm the steering committee members within a year. To fulfill this requirement, a 2nd Steering Committee meeting was held in Accra, Ghana on 9-11 August, 2010. The main objective of the meeting was to hold a formal election of the AWFST Steering Committee as per the resolutions agreed on at the 1st Interim Steering Committee (ISC) and to define the organizational structure and framework for implementation of the flagship programs and activities. The specific objectives of the three-day meeting were to conduct:

- i. Mid-term review and reflection of the ATPS Technical and Financial Report
- ii.Confirmation of the AWFST Steering Committee Membership
- iii. Constitution and Terms of Reference for the AWFST Steering Committee
- iv. Strategic Plan of Action
- v. Review of the Climate Innovation Challenge Awards for African Women
- vi. WECAN Program Implementation Strategy
- vii. Presentation of individual activity report for each ISC member

The Steering Committee members were democratically elected during the meeting and they will be instrumental in planning and steering gender inclusive activities in both the African region and the Diaspora in the coming years. The regional representation on the committee includes: West Africa, North Africa, Central Africa, Southern Africa, East Africa, Francophone; Lusophone and the Diaspora.

# Book on Women Innovation in Climate Change to be Published

As a result of the value gained from the regional competitions in terms of content and innovation ideas, ATPS will publish a book on women and their innovation in climate change issues. The content is being reviewed and packaged with the publication slated for 2011.

Science, Technology and Innovations for African Development

AWIN

Mrs. Nadia Hassan Sidahmed, the Sudan chapter coordinator, addresses grantees attending a methodology workshop in Nairobi, Kenya.

MR.G. SHENDOE TANZANIA



Neils Louwaars moderates an IP discussion session at the 2010 Annual Conference.. ATPS

**S** a key Pan-African institution playing a strategic role in enhancing STI, ATPS understands that Training and Sensitization plays a crucial role in building a body of knowledge and sharing information to a wide variety of stakeholders which is crucial to moving Africa forward through innovation. Training and sensitization is therefore a major theme and strategic area of focus.

# Training of Journalists, Artists and Policy Makers on STI Policy Issues

ATPS collaborated with Science Africa Ltd to host a sensitization workshop aimed at strengthening the capabilities of Africa's science journalists to report more effectively on the centrality of STI in addressing global challenges such as climate change. The workshop attracted 30 print, radio and television journalists drawn from 14 ATPS member countries including Burkina Faso, Lesotho, Côte d'Ivoire, Ethiopia, Ghana, Kenya, Malawi,

Mozambique, Nigeria, Rwanda, South Africa, Tanzania, Uganda and Zambia. This network of science journalists will be useful in disseminating research results and impact of STI policy and capacity building interventions across Africa.

Besides improving their reporting skills, the workshop came up with strategies to bring the various national science journalists' networks together under the umbrella of the rejuvenated and reorganized African Federation of Science Journalists (AFSJ). Members of the AFSJ led by the president Mr Diran Onifade presented a request to ATPS to host the federation's secretariat. A working group (ATPS/AFSJ Steering Committee) was constituted to carry forward this process. The team was tasked with developing a mechanism for collaboration, define governance structures, draft terms of reference, coordinate meetings and prioritize activities.



Other training and sensitization activities held under this objective are discussed below:-

### Launch of the ATPS World Café model

ATPS partnered with Green Drinks Nairobi to launch the World Science Café on Climate Change in Africa at the National Museums of Kenya on 26 May 2010. Green Drinks Nairobi is an informal network of people working in the environmental field who meet monthly as part of a global network. The forum has a lively mixture of people from the UNEP complex in Gigiri Nairobi, alongside participants from NGOs, academia, government and business. Green Drinks is an organic, self-organizing network where many people have developed new ideas, projects, partnerships and had moments of serendipity.

The partnership with Green Drinks Nairobi intends to harness the power of an informed environmental network which exemplifies the quadruple helix to create change in Africa. The basic concept behind this initiative is to create a kind of carousel on topical STI issues with the aim of coming up with a paper that can hopefully lead to a policy brief. This engagement allows ATPS to have a unique selling point as most other similar engagements involve mostly dialogue but without production of tangible outputs. The World Science Café meeting fuses the existing methodologies and stakeholder community established by the Green Drinks Nairobi Network. Following the successful inaugural event, Green Drinks Nairobi and ATPS will explore the possibility of having this as a regular event in other cities of Kenya or African countries where ATPS networks exist. This activity was coordinated by Dr Sheila Ochugboju, ATPS Senior Communications and Outreach Officer in liaison with Mr Philip Osano and Ms Wairimu Mwangi, ATPS Research Officers.

# Development of UNESCO Science Technology & Innovation Policy Making Manual

ATPS collaborated with the UNESCO Nairobi Regional office to develop an electronic STI training manual which aims at providing a hands-on self training on basic principles of STI policy formulation. The manual will be expected to provide an overview of the concepts of science, technology and innovation. It also focuses on the definitions of STI, its aims and objectives, distinctions between science, technology and innovation and how these relate to basic research and development. Other focus areas include implications for STI policy making and policy implementation spanning from R&D to STI policy and elucidating why STI policy is the necessary catalyst for economic development of nations. The draft training manual was led by Prof Michael Madukwe, ATPS National Chapter's Regional Steering Committee Representative for West Africa. The manual has already been submitted to UNESCO.



# Training of NAFDAC on National Systems of Innovation & Clinical Trials

ATPS Executive Director Dr Kevin Urama was invited to serve as faculty at the NAFDAC Capacity Building Workshop held on April 26-29, 2010 at Transcorp Hilton Hotel, Abuja, Nigeria. Dr. Urama gave a keynote presentation on The Nigerian National Innovation Systems and Globalization of Clinical Trials at the meeting which was organized by Clintriad Pharma Services based in the USA.

## Popularisation of Science and Technology: African Scientific Revival Day 2010

The ATPS National Chapters were invited to submit expressions of interest to commemorate the African Scientific Revival Day on June 30 2010 in their respective chapters. The budget available to support the event was limited to US\$10,000 which was adequate to support only two chapters to a tune of about US\$5,000 each. Nevertheless, ATPS made arrangements to make grants to five national chapters who expressed interest in hosting the Scientific Revival day celebration in their country. These include: Nigeria, Mali, Sierra Leone , Senegal, Uganda and Cameroon.

### Scientific Revival Day in Nigeria

ATPS Nigeria chapter collaborated with the Raw Materials Research and Development Council and the Federal University of Technology (FUT), Yola to host the 23rd African Scientific Revival Day at the FUT Yola Multipurpose Hall. The theme of the event was dubbed Science, Technology and Innovation Policy for Sustainable Agro-industrial Raw Materials and aimed at provoking discussions on Nigeria's S&T policies and making appropriate recommendations. Among those in attendance were the Vice Chancellor of the FUT, Yola, Prof Bashir Haruna Usman and the ATPS Executive Director, Dr Kevin Urama. The workshop was attended by over 300 delegates who discussed major issues relevant to the theme. High quality papers were presented and they were well received by the delegates as demonstrated by their enthusiasm during the lively conference discussions. ATPS Nigeria National Coordinator, Prof M C Madukwe emphasized the need for government ministries, parastatals, NGOs, schools, civil societies and the media to create Science and Technology Policy Units within their organizations to enable them analyze and keep track of developments. The event was sponsored by the RMRDC, ATPS Secretariat Nairobi, FUT-Yola, and World Bank STEP-B project, Abuja.

### Scientific Revival Day in Cameroon

On 30th September 2010, ATPS in collaboration with the AYFST-Cameroon chapter celebrated the African Scientific Revival day in Buea, Cameroon. The occasion took place at the capitol residence hotel in Buea. The theme was "Making Information Systems Work for Health Sectors in Cameroon". Over 30 participants, majority of who are members of the AYFST-Cameroon and the media, attended the meeting. The ATPS coordinator for Cameroon, Dr. Ndeso Atanga and the South West Regional delegate of Public Health, Cameroon chaired the event. Worth mentioning was the presence of the Cameroon South West Regional delegate at the Ministry of Scientific Research and Innovation and other dignitaries from this Ministry and that of Public health in Yaoundé.

Presentations were made at the meeting and deliberations on the various topics presented and recommendations made to be presented to the Cameroon Minister for Public Health and Minister for Scientific Research and Innovation through their representatives present at the revival day. Delegates who attended the event expressed satisfaction and pledged their commitment to ensure the success of AYFST in its mandate.

### Scientific Revival Day in Mali

On August 4 2010 the ATPS Mali chapter held a symposium at the INRSP conference hall Bamako, Mali to commemorate the Scientific Revival Day. The theme of the symposium was Capitalization of the achievements of science and technology in the health care system in Mali. The national health policy in Mali is based on the universal principle which made it a fundamental right for all citizens of Mali. The objective of the symposium was to create better understanding of the health system in Mali. Specific objectives of the symposium were to understand the state of the health system in Mali and also to identify the alternatives of synergies to improve collaboration between both modern and traditional medicine. The meeting was chaired by the Hon Sidi Traore and facilitated by the Deputy Director General of IPR/IFRA Prof Mamoudou.

### Scientific Revival Day in Sierra Leone

The ATPS Sierra Leone chapter commemorated the Scientific Revival Day by showcasing evidence-based local scientific researches and innovations that would contribute to national development of Sierra Leone and other parts of Africa. This was be followed by public debates from science students from four tertiary institutions.

### Scientific Revival Day in Uganda

ATPS Uganda chapter partnered with the Uganda National Council for Science and Technology (UNCST) and Café Scientifique to mark the African Scientific Revival Day as part of the events of the 2010 Uganda National Science Week (NSC). One of the highlights for the week was a scientific debate for secondary schools under the theme Socializing Science and Technology Today for Sustainable Development Tomorrow. The event was held in Kampala, on September 21 2010 and brought together 20 secondary school students, teachers, ATPS members and key resource persons to debate on selected pertinent science topics. The debate popularized science among the students, teachers and the public by providing a relaxed but interesting approach to understanding the place of science in everyday living. Further, the engagement fostered positive thinking towards science careers among the secondary school students and encouraged interaction and networking among youth with interest in science based careers.

### Scientific Revival Day in Senegal

ATPS Senegal chapter collaborated with the Centre International de Formation et de Recherche en Energie Solaire de Dakar (CIFRES) to commemorate the African Scientific Revival Day. An event by the theme Promoting Research among African Youth for Africa's Development was organized and the report from this activity is expected soon.

CIFRES is an organization that provides training and research opportunities on renewable energies such as solar energy, and photovoltaic and wind turbine. The scientific revival day enabled the ATPS-Senegal chapter to reach out to a wide audience (universities, government departments, parliamentarians, embassies) on the popularization of Science and technology. It also provided a chance to show-case the importance that ATPS attaches to the empowerment of the young African researchers which is one of the best levers to the development of Africa. The event took place on June 30, 2010 at the Ecole Supérieure Polytechnique – Dakar focusing on a series of presentations on energy and the environment, from young African researchers from the Senegalese University community.



Dr. Edwardina Ndhine of the Ministry of Science and Technology – Kenya addressing science journalists during a training workshop on effective reporting of STI

### **Policy Advocacy**

# Round Table Breakfast Meeting with the Kenya Parliament

ATPS is collaborating with UNEP to organize a round table breakfast meeting with the selected Chairs of Parliamentary Committees in Kenya to take forward the initiative towards a climate change policy for Kenya. An initial breakfast meeting was held with Hon Rachel Shebesh. The member expressed interest in ATPS activities including the Women Innovation Challenge (WE CAN) and the Youth Innovation Challenge (Y I CAN) programs, respectively. The round table is expected to bring together Kenyan Parliamentarians for a followup discussion on the outcomes of the Parliamentary sensitization workshop held in 2009. The implementation of the roundtable was significantly delayed due to the unavailability of legislators who were engaged in constitution making activities. Efforts are currently ongoing to seek availability of the legislators to ensure the success of the workshop.

### Training for ATPS National Coordinators

Training for key stakeholders including Secretariat Management Staff, Board Members and National Coordinators took place at the Annual Conference and Workshop in Cairo, Egypt in November 2010. The training covered Principles and Practice of Corporate Governance, The Effective Board, Corporate Control, Financial Reporting, Corporate Accountability and Disclosure.

Science, Technology and Innovations for African Development

Kenya's environment minister, Hon John Michuki addresses parliamentarians during a conference on sensitizing parliamentarians on climate change in Mombasa, Kenya.

# Outreach, Knowledge Brokerage, Knowledge Circulation and Policy Dialogue



UniBRAIN field visit at KIRDI Leather Centre, Kenya. ATPS

#### Support to ATPS National Chapters

The ATPS national chapters remain very instrumental to the successful implementation of activities under the ATPS Phase VI Strategic Plan program, 2008-2012. During the reporting period, the ATPS Secretariat continued to liaise closely with the national chapters on the design and implementation of ATPS activities accordingly. The ATPS secretariat sends regular quarterly updates to the national chapters on items of interest and distributes biannual newsletters. The 2009 annual report and audited accounts was also sent to all national chapters. These reports are also uploaded to the ATPS website for easy access by all members and the general public. In addition the chapters are engaged on a day to day basis through e-mail communication, telephone discussions and visits where necessary. Refer Annex 8.

Specific activities carried out with national chapters during the reporting period include:

# National Chapter Coordinators' Regional Steering Committee Meeting

The NCRSC meeting (also referred to as the Regional Council) was held in Accra, Ghana from July 9-10 2010. The aim of the meeting was to achieve a collective and objective internal review on the implementation of the ATPS Phase VI Strategic Plan 2008 – 2012 and to assess progress made so far towards achieving the agreed strategic goals of the plan and the overall mandate of the ATPS.

The meeting was attended by three representatives of the Secretariat Management Committee (SMC) and regional representatives of the National Coordinators including Dr George Essegbey (Ex-Officio member), Dr Musa A Dube (Southern Africa), Prof Femi Olokesusi (Western Africa), Chief Ndeso Atanga (Central Africa), Mr Kenneth Aduda (Eastern Africa) and Dr Arsene Kouadio (Francophone Africa). At the meeting, the Regional Council and the Secretariat Management reflected on the ongoing governance reforms that have been implemented in response to the SWOT analyses carried out by the ATPS Secretariat (June 2007) and the ATPS National Chapter Coordinators (November 2007) as well as other recommendations by the ATPS Stakeholders in Africa and beyond during the process of drafting the ATPS Phase VI Strategic Plan, 2008 – 2012. The Regional Council produced a Communiqué and some resolutions on the Reform Agenda of the ATPS.

#### **New Chapters**

Sudan and USA joined the list of countries including Madagascar, Mauritius, Tunisia and Egypt from where ATPS has received expressions of interest to form new national chapters. Subsequent to decisions of the ATPS National Chapter Coordinators and the 16th ATPS Board to establish focal points in the new countries, the delegates from Egypt and Sudan were invited to join the ATPS Grantees convening in May 2010. The aim was to accord them opportunity to familiarize themselves with the Network's activities and to further discuss the requirements and their expectations with the ATPS Management. The focal points also held meetings with ATPS Research department and confirmed their intention to become Focal Points of the ATPS in their countries pending the formation of national chapters at a later stage. The development of the Egypt chapter has gone a step further with the signing of an MoU with the Academy for International Development - Middle East (AID-ME) of Egypt that saw Ms Manal Moustafa Samra appointed as the National Focal Point Coordinator responsible for overall supervision of all ATPS activities in Egypt in liaison with ATPS Regional Secretariat Management. Other expressions of interest to establish new chapters of the ATPS were received from Morocco, the UK and USA (Diaspora chapters and their applications were reviewed and approved at the 18th ATPS Board Meeting. New links have also been forged in Liberia and Zambia in efforts to revitalize the chapters and discussions have also been initiated in Rwanda. These consolidated efforts to establish new chapters and revitalize old chapters will ensure that ATPS is able to effectively champion its cause across the continent and beyond.

### Visits to National Chapters

The IP and the UniBRAIN programs enabled the ATPS secretariat to visit a number of national chapters during the reporting period. These visits provided opportunities for the ATPS Secretariat to conduct on ground assessment of the status of the national chapters visited and also an opportunity to visit relevant STI institutions and stakeholders in the respective countries. The visits are expected to continue leading to a report on the second assessment of the status of ATPS national chapters, identification of potential national institutions with interest and capacity to host ATPS national chapters following the 17th Board decision on institutionalization of national chapters. The list of chapters visited is provided in the following table.

Table 2: ATPS Secretariat Visit to National Chapters in 2010				
Chapter Visited	Observations			
Swaziland	Chapter is active and enjoys the support of the University of Swaziland			
Kenya	<ul> <li>Chapter is active and has a functional steering committee that takes decisions on chapter activities.</li> <li>Plans are underway to harmonize the chapter's efforts in collaboration with the Kenya National Council for Science and Technology.</li> </ul>			
Uganda	• Chapter is active and enjoys the support of key institutions such as the Uganda National Council of Science and Technology (UNCST); Uganda National Academy of Sciences (UNAS)			
Egypt	<ul> <li>Chapter is in its formative stages. Courtesy visits paid the Academy for International Development –Middle East (AID-ME) which has expressed interest in hosting the chapter.</li> <li>The Chapter has been sensitizing other stakeholders in the quadruple helix on the presence of ATPS in Egypt.</li> </ul>			
Ethiopia	<ul> <li>Activities in the chapter have been fairly slow following the departure of the former coordinator for further studies</li> <li>Meetings held with the Ethiopian Industrial Property Organization (EIPO). The Director of Intellectual Property Protection and Technology Transfer at EIPO, an old ATPS Ethiopia member identified to steer chapter activities in an acting capacity until the chapter coordination issues are streamlined.</li> </ul>			
Nigeria	The Nigerian Chapter is very strong. There is a good working relationship of members and stakeholders at the local, state and national levels. Successful co-ordination of CSP and Agricultural Innovations programs are ongoing. The NSI has been established with an office at Abuja.			
Malawi	<ul> <li>Chapter is strong and enjoys the support of the Malawi National Council of Science and Technology which has signed an MoU with ATPS.</li> <li>The acting chapter coordinator is also vibrant and is passionate about steering the chapter forward</li> </ul>			
South Africa	<ul> <li>Stellenbosch University is well suited and prepared to host the ATPS South Africa National Chapter</li> <li>Plans underway to enter into an MoU with the University</li> </ul>			
Ghana	The Chapter is active and there is a good working relationship between ATPS members and the National Coordinator. The former National Coordinator in the country has also been very resourceful.			
Benin	• The Chapter is yet to pick up.			

#### Table 2. ATPS See atariat Visit to National Chaptors in 2010

### Knowledge Brokerage Program

# Traditional Knowledge Systems and Access to Benefit Sharing of Intellectual Property

ATPS committed to liaise with the National Chapter's Regional Steering Committee members and the National Chapters to organize formal inauguration ceremonies of the national chapters. The aim of this activity was to enable the secretariat staff to visit the national chapters and support them in reaching out to relevant STI institutions in their countries for popularization of the IP program and the ATPS in general, to formally inaugurate the IP National Steering Committee and to meet with the ATPS members in the national chapters and explore the potentials for institutionalization of the ATPS in each country. Another purpose of the visit was to discuss measures for strengthening national chapters. Each national chapter coordinator was to receive a grant to organize the activity in liaison with the ATPS secretariat, and the National Chapter's Regional Steering Committee representative for each region. In this regard, visits to four chapters have been made including Ethiopia, Malawi, Swaziland and Uganda.

## Inauguration of IP Steering Committee in Swaziland

Dr Olumuyiwa Alaba, Mr Wekundah and Dr Kevin Urama visited the Swaziland National Chapter on 17-21 February 2010 to inaugurate the national steering committee. Dr Musa Dube had arranged visits to relevant institutions including the IP office in Swaziland and Luyengo University where they visited with the Vice Chancellor, relevant Deans of Faculty and the Director of Research. These stakeholders expressed great interest in ATPS and pledged their support to the work being done by Dr Dube and his team at the national chapter. The Vice Chancellor of the University of Luyengo welcomed the suggestion to institutionalize the ATPS in Swaziland and expressed support for the activities of ATPS in Swaziland, spearheaded by Dr Musa Dube.

# Inauguration of the IP Steering Committee in Uganda

ATPS delegation comprising of Dr Olumuyiwa Alaba, Dr Nicholas Ozor, Mr Marsden Momanyi, and Mr Wekundah visited ATPS Uganda national chapter on 20th -22nd May 2010 for the inauguration of the IP National Steering Committee in Uganda. During the visit, the ATPS team also met relevant state institutions including, the Uganda National Council for S&T (UNCST) and the Uganda National Academy of Sciences (UNAS). Both the UNCST and UNAS expressed interest in hosting the ATPS National Chapter. The Executive Secretary of the UNCST had visited the ATPS Secretariat and held initial discussions with Dr Urama, Dr Olumuyiwa Alaba and Dr Nicholas Ozor regarding the possible signing of an MoU with ATPS to host activities of the network in Uganda. The activity was coordinated by Dr Olumuyiwa Alaba, ATPS Senior Research Officer.

### Inauguration of IP Steering Committee in Ethiopia

Dr Olumuyiwa Alaba, Mr Joseph Wekundah and Mr Marsden Momanyi visited the Ethiopia National Chapter in August 2010 to inaugurate the national steering committee in Ethiopia. Meetings to relevant institutions including the IP office in Ethiopia were organized and coordinated by Mr Tibebu Solomon, a member of the ATPS-Ethiopia and a grantee under the IP regional studies. The purpose of the Ethiopian Chapter visit was to understand the IP environment, identify key stakeholders, establish an IP Steering Committee, institutionalize the ATPS Chapter in Ethiopia and to review the case study on IP.

To achieve the above, Mr Tibebu arranged for the IP team to visit and hold discussions with the Head of the Medicinal Plants in the Institute of Biodiversity Conservation, the Ethiopia Agricultural Research Institute IP office, Director of IP in the Ministry of Science and Technology, Director General of IP in the same Ministry, Policy Research Director of the same Ministry, the IP Group, field visit to a herbalist and launch of the newly formed steering committee. One of the key achievements made was to receive up-to-date information about the IP environment, and the establishment of the IP NSC under the IP office as well as identification of Mr Wondwossen Belete of the EIPO office as the acting National Coordinator.

#### Inauguration of IP Steering Committee in Malawi

Mr Joseph Wekundah and Mr Marsden Momanyi visited the Malawi National Chapter in September 2010 to inaugurate the national steering committee. The meetings were organized and coordinated by Prof Henry Mloza-Banda, the acting National Coordinaor of ATPS-Malawi and a former grantee under the successfully completed ATPS Water and Environment programme. The team visited various centres and had interactions with IP stakeholders. They also visited the Malawi National Council of Science and Technology where an MoU with ATPS was signed.

# Consultants for technical support to ongoing regional and small grants case studies

To ensure proper coordination of ATPS thematic activities, international experts in the relevant fields as program coordinators are engaged for each activity. Following discussions with national chapters, ATPS now engages the experienced national chapters coordinators and members of the network as well as other international experts in the coordination of ongoing ATPS activities. This decision is backed by the fact that many of the national chapter coordinators are now international experts in their respective fields. This move is aimed at consolidating the experiences of the network members and also enhancing shared learning and knowledge circulation within the network. As much as possible, ATPS aims to maintain the African viewpoints by engaging African experts in the implementation and coordination of its programs and activities while engaging international experts in peer review and other forms of quality control processes accordingly.

# Progress review workshops for IP, Agricultural Innovation Studies and Climate Innovations Studies

ATPS convened a progress review and methodology workshop for researchers from 24-26 May 2010 in Nairobi, Kenya. 34 delegates from 11 countries participated in the workshop. The workshop brought together the grantees and the coordinators of each program for progress reporting and peer review of ongoing work. In addition, the activity also featured methodology training and lecture provided by Prof Michael Madukwe, lead program Coordinator for the Agricultural Innovations Program; Dr Nicholas Ozor, ATPS Contact for the Agricultural Innovations Program; Dr Olumyiwa Alaba, of the Intellectual Property Rights Program; Mr Richard Muriuki, ATPS Finance and Administration Manager; amongst others. These methodology lectures covered a wide range of subjects including field work tips, quantitative and qualitative data analyses tools needed for the successful analyses of the project outcomes, indepth review of the relevant science areas, as well as technical and financial reporting requirements. The meeting also emphasized the importance of researchers ensuring that they adhere to the donor requirements by submitting their deliverables in a timely manner and ultimately producing high quality outputs. A final progress review workshop was held in November 2010 at the ATPS Annual Conference and Workshop held in Cairo, Egypt

# Support staff travels for network management, knowledge circulation and knowledge valorization activities

Staff were supported to travels to various destinations on official duties. Some of the travels included the ongoing IP and UniBRAIN national chapter visits. Most of the international travels undertaken by the Executive Director during the year were supported by the inviting institution including the United Nations Agencies, the African Union, the Intergovernmental Panel for Climate Change (IPCC), among others. This has enabled the Secretariat to maintain a lean staff travel budget for the year. Staff travels are an ongoing activity throughout the year and has been discussed in various sections of this report.





**FFORTS** are ongoing to create a comprehensive resource centre of international standards at the ATPS secretariat. Unless science outputs are taken from the library shelves and scientific journals to the public, policy-makers, businesses and farmers, the value added to funded research programmes will be significantly reduced. During the reporting period, ATPS raised awareness of major STI policy issues with the aim of bridging the gaps between various actors in the STI valorization chain through media and advocacy.

By facilitating documentary and news coverage including appearances on televised talk shows, ATPS raised the profile of wide range of STI issues affecting Africa including climate change, the importance of innovations for development in Africa and the role of women and youths in STI for sustainable development among others.

### Video documentary

ATPS produced a feature video documentary about the African Youth and Women in Science and Technology Steering Committee meetings, which took place in Ghana in August. The short 21-minute feature depicts the outcomes of the meetings including the achievements of the AWFST/AYFST programmes since their inception and their implications for sustainable development in Africa. It features eminent women as well as youth innovators from across Africa and Diaspora talking about their vision for the two programmes.

The documentaries developed will be available online through the ATPS multimedia archive and can be offered to any station. The multimedia archive should ensure that the knowledge gained during the implementation of the ATPS Phase VI Strategic Plan is available to inform key STI policy dialogues in the future and as a learning tool contributing to longer-term impact beyond the strategic plan's life cycle. The documentary can be viewed at this link. http://www.atpsnet.org/media\_centre/video/media. php?lang=1&id=1

### Media outreach

As part of the ATPS media outreach programme, technical staff of ATPS are encouraged to utilize available media platforms including publishing articles in the print media, and participating in televised and radio broadcast talk shows to disseminate STI findings, share success stories, case studies and programme interventions to the public in order to promote STI and upscale best practices. To this end ATPS appeared on the Kenya Broadcasting Corporation (KBC) live morning show "Good Morning Kenya" to discuss "The African Manifesto for STI in Africa - Why now." On K24 ATPS discussed, "The role of science, technology and innovation in achieving the MDGs in Africa." In Malawi Broadcasting Corporation (MBC) 9 o'clock news interview, ATPS launched collaboration between ATPS and the Government of Malawi through the National Commission for Science and Technology. ATPS was also featured in Ghana Web in an online science news web article, which carried the headline "Scientists say farmers need programmes to cope with climate change." The story was in relation to a study under the theme: "Agricultural Innovations for Climate Change Adaptation and Food Security in West Africa: The Case of Ghana and The Gambia", which is funded by ATPS and implemented by CSIR-STEPRI. In July ATPS was featured in an online article titled, "Does Africa really need new idealism?" in relation to the launched African Manifesto for Science, Technology and Innovation. Ms. Wairimu Mwangi participated in a recorded Television interview with the Kenya Broadcasting (KBC), which featured discussions on African Women and Energy. In January – February 2010, The ATPS Executive Director Dr Kevin Urama represented ATPS in a series of live televised feature shows in the "Eco-Show programme," aired on the Kenya Broadcasting Corporation (KBC). in discussions regarding:



- a) Urama K.C. and Philip Osano (2009). Economics and the Environment- Need for Decoupling Growth from environmental degradation
- b) Urama K.C. and Philip Osano (2009). Climate Change Policy and CoP15 conference – Policy advice to Global Leaders
- c) Urama K.C., Olumuyiwa Alaba, and Philip Osano (2009). Intellectual property Rights and innovation: African perspectives
- d) Urama K. C. and Brian Heap (2010). Climate Change: the outcomes of the CoP15 conference and road ahead.

### **ATPS Multi-Media Publications & Websites**

Below is a summary of publication produced by ATPS during the reporting period, January – December 2010.

- a) 1 Report
- b) 2 Book volumes
- c) 2 Book Chapters
- d) 4 ATPS Newsletters
- e) 8 Conference Proceedings
- f) 5 Journal Articles
- g) 13 ATPS Working Papers Series
- h) 11 ATPS Research Paper Series
- i) 12 Technopolicy Briefs
- j) 3 Multimedia Publications
- k) 10 Press Releases
- I) 3 Other publications (flyers & prospectuses)
- m) 17 Conference Papers and Keynote presentations
- n) 2 Translation of outputs into French

# Subscription to international journals, Magazines, reports, newspapers, and literature

ATPS' role at the heart of STI research and research capacity building requires the network to provide access to world-class and up to date publication and research materials for its members. The period under review saw the beginning of implementation of the resource centre strategy developed during the second quarter to guide the refurbishment, re-stocking and management of the ATPS resource centre.

In pursuit of its vision, to become the leading centre of excellence and reference in STI, ATPS has expanded its resource centre to provide its members with access to a wide range of current and updated STI research materials including electronic journals, core books, science magazines, theses and various multimedia resources. During the reporting period, ATPS announced its latest online journal subscriptions, which are hosted by SAGE, one of the world's leading academic and professional publishers. They include:

- a) Science, Technology & Society
- b) Public Understanding of Science
- c) Progress in Developmental Studies
- d) International Journal of Rural Management
- e) Margin-The Journal of Applied Economic Research
- f) Journal of Environment & Development
- g) Journal of Education for Sustainable Development
- h) Journal of Asian and African Studies



i) Gender, Technology & Development j) Bulletin of Science Technology and Society k) Action Research

(Refer to: http://www.atpsnet.org/publications/online/ index.php)

In addition, Journal Storage (JSTOR) has waived its participation fees for ATPS as part of its African Access Initiative. ATPS network members will receive access to all current and available content in the archive and content added to the archive during the period of participation. A complete list of our Available Collections can be found on the JSTOR web pages http://about.jstor.org/contentcollections/journals

Hosting of the ATPS website and other subsidiary websites With a view of seeking to enhance ATPS visibility online, the ATPS launched its newly re-designed site which went online on 28th June 2010. The site now has state of the art multi-media capabilities, a new and improved look with major sections easily accessible from the homepage. The aesthetically advanced interface contains a new login facility that allows registered members access to specific restricted areas such as the online journals for research purposes. It also provides special privileges including posting and commenting on the blogs and updating of selected content material. There is a blog section that provides room for cluster members to actively participate in discussions forums on various topics related to Science, technology and innovation (STI) and ongoing program activities. The home page also features a series of visual icons that guide and link visitors directly to major ATPS programs as well as ATPS social media sites such as Facebook, Twitter and You-Tube. In addition the homepage also contains an events calendar and an 'In-Focus' icon that highlights featured ongoing stories and events.

The new site is multi-lingual with French and English options that are active with plans to incorporate the Arabic version soon. The new site has made it easier to develop and maintain mini sites for the ATPS national chapters and serve as a means of effectively communicating chapter activities; with each chapter mini site, all the news, events and activities related to that chapter can now be uploaded to the site's sub domain therefore providing visibility for the chapters. The same also applies for the program mini sites.

The new media centre has the capability of handling the latest interactive electronic media such as podcasts and videos. It is also capable of streaming uploaded videos, playing sound clips in form of podcasts and supporting flash animation. There is an elaborate photo gallery with a search and retrieval feature that contains neatly catalogued photos under designated categories. The ATPS website has now become interactive with the improved membership registration module that provides for subscription to newsletters, as well as assigns registering members passwords which they can use to access the site. There is also a feedback form that will be used to collect the views of the site's users and other relevant information that they would like to pass to the ATPS secretariat. The site also provides RSS subscription that will alert visitors who subscribe to them every time the site is updated, and also allows for sharing of information to their networks via the share facility icon.

Since its launch, the new website has continued to receive improved visits from all over the world. Access to the site has improved with every new month. The analysis of the site statistics has also changed to focus on the visitor behaviour on the site for a more accurate analysis of the site's accessibility. The new parameters are

- Page Load this gives the number of times the website pages have been visited.
- Unique Visitor this gives the total number of visitors to the site
- First Time Visitors this gives the number of new visitors to the website.
- **Returning Visitors** this gives the number of people returning to view the website after their first visit.

The site received a total of 28,448 page loads between June and December. The number of unique visitors to the site during the period stood at 10,549 while that of first time visitors was 7,791. The monthly statistics show a steady rise of activity on the site from the date of launch on all the four fronts. The steady increase in website activity can be attributed to the high number of activities that the ATPS was engaged in over the months, which have been regularly updated on the website; and in turn necessitated access to the site for references. June recorded the lowest number of page loads, unique visitors and first time visitors. This is due to the fact that it is in June that the new website went live and access may have been hampered due to the migration delays, and as we stabilised there was a sharp increase in the visits. Of significant importance is the fact that the site has shown a steady increase in the number of visitors who return to the site for subsequent visits, which could mean a steady interest in ATPS programs and activities. The revamped website can be accessed at http://www.atpsnet.org.

# Nanotechnology for Development Project Website Developed

ATPS Communications and Outreach department held discussions with Netherlands' Maastricht University and University of Hyderabad, India to develop a website for the Nanotechnology project. The website was successfully developed and hosted by the ATPS and is currently being updated with the project details. It can be accessed at http://www.nano-dev.org

### Staff Training and Development

### Secretariat Staff Trainning

ATPS is committed to ensuring that members of staff benefit from its capacity building mandate. The Secretariat Management Committee has been addressing skills gaps through continued in-house coaching and mentoring, and in some cases support long term training. As part of this ongoing process, ATPS has supported various staff members who have benefitted from training grants. During the year in review two staff members were sponsored to pursue a French course at Alliance Française and a diploma in Business Administration respectively. Another staff has received part contributions to pursue a bachelors' degree at the Africa Nazarene University, Nairobi. Staff members are also encouraged to undertake short courses that are relevant to their work to enrich them with skills that will enable them add value to their work and ultimately contribute to the realization of ATPS objectives. In addition, training is provided on collective basis on matters of Human Resources and Team Building as the need arises. This year staff collectively received training on Stress Management.

Due to work constraints not all staff members recommended and approved to receive training grants were able to take their training within the year. For instance the Communications Officer had been granted sponsorship to undertake training in video-graphy and multimedia communication skills but was unable to commence studies due to work commitments. Management staff will also plan to pursue training courses in leadership within 2011. The training assessment needs for all staff members are discussed and reviewed during the ATPS Performance Review and Appraisal process.

### Staff Team Building

ATPS held the annual staff retreat in Mombasa, Kenya on December 20-21, 2010. Independent consultants from Resource Associates were engaged to facilitate the team building activities.



ATPS Annual staff retreat in Mombasa, Kenya.

The consultants conducted psychometric evaluation tests – Personal Profile Analysis. This assessment tool was meant to empower staff through understanding of individual performance motivators and traits. Staff received their individual results of the psychometric evaluation test and gained more insight into each individual's unique traits. This in effect was meant to enhance cohesiveness and strengthen the team working towards a common objective.

# Summary of Key Achievements and Policy Impacts for the Year 2010

The key achievements of the ATPS for the year are briefly highlighted below:-

- Production and successful launch of the African Manifesto for Science, Technology and Innovation in collaboration with SETDEV partners in Europe, India and Africa
- Facilitation of the completion of a handbook for Socialization of Science, Technology and Innovation in Kenya in collaboration with SETDEV partners in Europe, India and Africa
- iii. Production of the sub-Saharan Africa chapter in the UNESCO World Science Report published every 5 years
- Initiation of the production of a biennial report on the State of STI in Africa with the first volume currently underway. This report will inform the future UNESCO World Science Reports

- v. Successful formation of the inter-agency National Systems of Innovation (NSI) Steering Committee for the Nigerian Government
- vi. Contribution to the IPCC-SPREN report and SPM
- vii. Successful implementation and realization of most of the expected milestones and outputs from the small grants and regional grants commissioned under the ATPS Climate Sense Program (11 small grants); Agricultural Innovations Program (3 regional grants); and Intellectual Property Program (6 country case studies).
- viii. Launch of a new revamped ATPS website with state of the art multi-media capabilities which enhances ATPS visibility to the online community and policy dialogue by stakeholders
- ix. Formal inauguration of the Regional Steering Committee to oversee the implementation of the IP program at the regional level
- x. Initiation of activities under the Universities, Business and Research in Agricultural Innovation (UniBRAIN) Initiative
- xi. Successful implementation of the Training of Trainers (ToTs) program under the ATPS-IP program
- xii. Successful commissioning of 24 small grants research under the Climate Change Innovation Challenge awards under the ATPS Youth and Women Innovation Challenge Programs
- xiii. Initiation of a dialogue with the Kenya Government to host a parliamentary roundtable of Greening the



From Left: Cyprian Nyamweno; Wairimu Mwangi; Richard Muchesia; Dr. Maurice Bolo; Carol Thuku; Stephen Otieno; Dr. Kevin Urama; Mr. Philip Osano; Belinda Makadia, Murimi Muriuki, Dr. Nicholas Ozor; Nelson Akenga

### Kenyan Economy

- xiv. Strengthened partnerships with key institutions in Africa including the signing of six (6) Memoranda of Understanding with AID-Me, Egypt; NCST, Malawi; ScienceAfrica Ltd, Kenya; PanAAC, Kenya; RUFORUM, Uganda and NSI, Nigeria.
- xv. Successful collaboration with RUFORUM at the Ministerial Conference on Higher Education in Agriculture in Africa
- xvi. Intensification of policy advocacy and STI communication through media presence on print and TV channels as well as providing training to 30 journalists to facilitate the communication and dissemination of STI policy issues and research results
- xvii. Successful commemoration of the Scientific Revival Day in Africa in five countries namely Cameroon, Mali, Nigeria, Senegal and Uganda
- xviii. Facilitation of the production of two global reports on Sustainable Water Management in collaboration with the UNEP Resource Panel
- xix. New Program to develop trans disciplinary curricula for Climate Change Adaptation in Nigeria
- xx. 57 civil society members (youth, media representatives, private sector actors) trained in relevant STI policy

### issues

xxi. 68 policy makers trained in relevant STI policy issues

- xxii. 190 science experts trained in relevant STI policy issues
- xxiii. Three (3) methodology workshops held under the Climate Sense, Agricultural Innovation and Intellectual Property programs
- xxiv. Five (5) new ATPS National chapters initiated in Egypt, Morocco, Sudan, United Kingdom and the USA (the last two representing the Diaspora)
- xxv. Twelve (12) ATPS National chapters strengthened
   Cameroon, Egypt, Ethiopia, Kenya, Ghana,
   Malawi, Mali, Nigeria, Senegal, Swaziland, Uganda
   and Zimbabwe
- xxvi. Increase in the ATPS Publication Series including the production of 1 Report; 8 Book volumes; 2
  Book Chapters; 4 ATPS Newsletters; 8 Conference Proceedings; 5 Journal Articles;
- xxvii. 13 ATPS Working Papers Series; 11 ATPS Research Paper Series; 12 Technopolicy Briefs; 3 Multimedia Publications; 10 Press Releases; 3 Other publications (flyers & prospectuses); 17 Conference Papers and Keynote presentations; 2 Translation of outputs into French



ATPS network disseminates its resurch results through publications to its stakeholders. Among its range of publications are the working paper series, Research paper series, Special papers series and Technopolicy briefs.

# Working paper Series:

Papers published under the Working Paper series (WPS) are produced from the ATPS small grants process or from regional projects. The ATPS researchers are encouraged to produce final drafts of their research reports in an easy -to-read and understand form. These are first published as WPS and disseminated widely.Researchers are encouraged to address any comments received from stakeholders before submitting articles to international journals for publications.The following are the WPS published in 2010.

- Nzeadibe T. C., Chukwuone N. A., Agu V. C., Mandu H. C., (2010), Climate Change Awareness and Adaptation in The Niger Delta Region of Nigeria Adebayo, K., Dauda T.O., Rikko L. S., George F. O. A., Osuntade O. B., Fashola O.S., Atungwu J. J., Iposu S. O. and Shobowale A.O. (2010), Emerging and Indigenous Technology for Climate Change Adaptation in Southwest Nigeria http://www.atpsnet.org/Files/wps57.pdf
- Agbeve M.S., Titiati A., Quaye W., (2010), Emerging Technologies for Building Resilience to Climate Change Effect – A Case Study in Dangbe East District of the Republic of Ghana http://www.atpsnet.org/Files/wps55.pdf
- Nzeh E.C., Eboh O.R., (2010), Technological Challenges Of Climate Change Adaptation In Nigeria: Insights From Enugu State http://www.atpsnet.org/Files/wps52.pdf
- Shemdoe R.S., (2010), Tracking Effective Indigenous Adaptation Strategies on Impacts of Climate Variability on Food Security and Health of Subsistence Farmers in Tanzania http://www.atpsnet.org/Files/wps51.pdf

- 5. Morlai T., (2010), Enhancing Agricultural Yields by Small-holder Farmers through Integrated Climate Change Adaptation Programme in Sierra Leone http://www.atpsnet.org/Files/wps54.pdf
- 6. Anselm, A. E., Ignatius I. M., Elizabeth. A. O., Anthony N. O., Josephat C. M., and Fidelis E. 2010. An assessment of indigenous climate change adaptation practices in stallholder agriculture of southeast Nigeria.

# http://www.atpsnet.org/Files/wps53.pdf

- Mekbib. S.B, Olaleye, A.O., Mokhothu, M.N., Johane, M., and Tlali, S. M. 2010. An assessment of adaptive capacity of the Machobane farming system to climate change in Lesotho (In Press).
- Magombo, T. M., Kachulu, M., Kanthiti, G., Kabuli, H., and Phiri, G. C. 2010. Assessment of incidence of climate change innovative adaptation practices and Livelihood security in Malawi (In Press).
- Akon-Yamga G., Boadu P., Darko Obiri B., Amoako J., and Mboob F. J., (2010) Agricultural Innovations for Climate Change Adaptation and Food Security in Africa: The Cases of Ghana and The Gambia. ATPS Working Paper (In Press)
- Ngoh M. S., Mafany G. T., and Atanga N. S. (2010) Agricultural innovations and Adaptations for climate change effects and food security in central Africa: Case of Cameroon, Equatorial Guinea and Central Africa Republic. ATPS Working Paper (In Press)
- Agwu A.E., Amadu F.O., Egbule C.L., Morlai, T.A., Wollor E. T., and Cegbe L.W. (2010) Agricultural Innovations for Climate Change Adaptation and Food Security in West Africa: The Case of Nigeria, Sierra Leone and Liberia. ATPS Working Paper Series (In Press)
- Osano P.M (2010), Balmford A., Rouget M., Turpie J., Thuiller W., (2010) Estimating Land Prices and Opportunity Costs of Conservation in a Megadiversity Country (In Press)
- 13. Mwangi. W. (2010). Potential for Carbon Markets in Kenya. Working paper (under peer review)

### **ATPS Research Paper Series:**

Research Papers are produced from small grants process or from the regional projects. These papers are subjected to three external reviewers and are adjudged to be of high academic standards before publishing. The Research Paper series published in 2010 include:

- 1. Mwangi. W. (2010). Household level determinants of risks in a smallholder rural environment in Kenya. Research paper. (Manuscript under preparation).
- Adebayo, K., T.O. Dauda, L. S. Rikko, F. O. A. George, O. B. Osuntade, Fashola O.S., Atungwu J. J., Iposu S. O. and Shobowale A.O. (2010) Emerging and Indigenous Technology for Climate Change Adaptation in Southwest Nigeria (In Press)
- 3. Nzeh, E.C., and Eboh. O R. (2010). Study of technological and farming systems adaptation to climate change in farming communities of Enugu state, Nigeria. (In Press)
- Morlai T., (2010). Enhancing Agricultural Yields by Smallholder Farmers through Integrated Climate Change Adaptation Programme in Sierra Leone (In Press)
- Mekbib. S.B, Olaleye, A.O., Mokhothu, M.N., Johane, M., and Tlali, S.M. (2010) An assessment of adaptive capacity of the Machobane farming system to climate change in Lesotho. (In Press)
- Magombo T. M., Kachulu, M., Kanthiti, G., Kabuli, H., and Phiri, G. C. (2010) Assessment of incidence of climate change innovative adaptation practices and Livelihood security in Malawi. (In Press)
- Anselm A. E., Ignatius I. M., Elizabeth. A. O., Anthony N. O., Josephat C. M., and Fidelis E. (2010) An assessment of indigenous climate change adaptation practices in stallholder agriculture of southeast Nigeria. (In Press)
- 8. Shemdoe R.S., (2010) Tracking Effective Indigenous Adaptation Strategies on Impacts of Climate Variability on Food Security and Health of Subsistence Farmers in Tanzania (In Press)
- Agbeve M.S., Titiati A., Quaye W., (2010) Emerging Technologies for Building Resilience to Climate Change Effect – A Case Study in Dangbe East District of the Republic of Ghana (In Press)
- Nzeadibe T. C., Chukwuone N. A., Agu V. C., Mandu H. C., 2010. Climate Change Awareness and Adaptation in The Niger Delta Region of Nigeria (In Press)
- Leeuw J., D., Osano P. M., Said M., Kifugo S., Kaelo D., Henniger N., Homewood K., (2010), Payments for wildlife conservation and tipping points in East African arid and semi-arid lands (Under Peer review)

### **Technopolicy Briefs:**

Technopolicy Briefs are commissioned short papers written by experts from all over the world specially to address current science and technology policy concerns and questions in Africa. The briefs are also summaries of technical papers published under our WPS, SPS and RPS written to highlight significant policy recommendations. The materials are designed for general readership and help advance the advocacy and knowledge brokerage roles of the ATPS. The technopolicy briefs published in 2010 include:

- 1. Nzeh, E.C., and Eboh. O R. (2010). Technological challenges of climate change adaptation in Nigeria: insights from Enugu State (In Press)
- 2. Mwangi W. and Urama, K. (2010). Why Policies do not work in Africa. Policy Brief (under peer review)
- Wekundah J., (2010) Why Access and Benefit Sharing Policy and Legal Frameworks are Important for Africa – (under peer review)
- 4. Wekundah J., (2010) Why Protect Traditional Knowledge? – In Press
- Adebayo, K., T.O. Dauda, L. S. Rikko, F. O. A. George, O. B. Osuntade, Fashola O.S., Atungwu J. J., Iposu S. O. and Shobowale A.O. (2010). Building climate change resilience in Nigerian farming communities through science technology and innovation. (Under peer review)
- 6. Morlai T., (2010) Goals of sustainable agriculture in Sierra Leone: Can they be achieved in the Absence of Climate Change Capacity Building of Small-holder Farmers? (Under peer review)
- Nzeadibe T. C., Chukwuone N. A., Agu V. C., Mandu H. C., (2010). What policy options can promote climate change awareness and adaptation in Niger delta region of Nigeria? (Under peer review)
- Mekbib. S.B, Olaleye, A.O., Mokhothu, M.N., Johane, M., and Tlali, S.M. (2010). Building climate change resilience in Lesotho farming communities through science technology and innovation. (Manuscript under preparation)
- Magombo, T. M., Kachulu, M., Kanthiti, G., Kabuli, H., and Phiri, G. C. (2010). Building climate change resilience in Malawian farming communities through science technology and innovation. (Manuscript under preparation)
- Anselm, A. E., Ignatius I. M., Elizabeth. A. O., Anthony N. O., Josephat C. M., and Fidelis E. (2010). Building climate change resilience in Nigerian farming communities through science technology and innovation. (Under peer review)
- 11. Shemdoe R.S., (2010). Building climate change resilience in Tanzanian farming communities through science technology and innovation. (Under peer review)

 Agbeve M.S., Titiati A., Quaye W., (2010). Building climate change resilience in Ghana rural communities through science technology and innovation. (Manuscript under preparation)

Other than the WPS, RPS and SPS, ATPS has other publications which include:

# **ATPS Reports**

1. Momanyi M., Urama, K. C., (2009) Science, Technology and Innovations for African Development; ATPS Annual Report http://www.atpsnet.org/publications/annual\_ reports/2009/index.php

# **Book volumes**

- Urama K. C., Ogbu O., Ozor N., Alfonsi A., Bijker W., and Gomes N., (ed.) (2010) The African Manifesto for Science, Technology and Innovation. Prepared by The African Technology Policy Studies Network (ATPS) under the auspices of the Science, Ethics and Technological Responsibilities in Developing and Emerging Countries (SETDEV) Project (ISBN: 9966-7434-5-6) http://www.atpsnet.org/Files/the\_african\_manifesto\_ for\_st&i.pdf
- 2. Urama K. C., Mutua F., (ed.) (2010) Science, Technology and Innovations for Sustainable Water Management in Africa (manuscript under preparation).
- 3. Urama K. C., Alaba O., and Wekundah J., (ed.) (2010) The State of Intellectual Property Rights, Access and Benefit Sharing in Africa and its implication for development, (*manuscript under preparation*).
- Urama K. C., Alaba, O., Ozor, N., (ed.) (2010) Africa's Response to Global Challenges through Science, Technology and Innovation; (manuscript under preparation).
- Ozor N., Akenga N., Thuku C., Momanyi M. and Urama K. (2010) Book of Abstracts: A compendium of the 2010 ATPS Annual Conference and Meetings; 106p. http://www.atpsnet.org/Files/2010\_atps\_annual\_ conference\_program.pdf
- 6. Ozor N. (2010) Mainstreaming Climate Change into University Curricula - Issues, Needs and Processes (*In Press*).
- Madukwe M. C., Ozor N., and Alaba F., (2010) Household Demand for Potable Water Supply in Nigeria: Economics, Ethics, Social Psychology and Institutions. ATPS Research Paper.(under peer review)
- 8. Ozor N and Urama K. C. (2010) Agribusiness Innovation Incubators in Africa: Experiences on the Visits under the Universities, Business and Research in Agricultural Innovations Initiative (UniBRAIN) (manuscript under preparation).

### Book Chapters

- Urama, K. C., Nicholas Ozor, O. Kane and M. Hassan (2010) The State of Science, Technology and Innovation in sub Saharan Africa. United Nations Educational, Scientific and Cultural Organization (UNESCO) Science Report 2010. UNESCO Publishing. Available online at: http://unesdoc.unesco.org/ images/0018/001899/189958e.pdf
- Urama, K. C., (2009) Higher Education for Sustainable Development in Africa: Association of African Universities (ISBN: 978-9988-46-6) http://www.atpsnet.org/Files/hesda.pdf

# **ATPS Newsletters**

- 1. Urama K.C., Momanyi M., Thuku C., (2008) ATPS Newsletter July – Dec 2008 http://www.atpsnet.org/ pubs/newsletter/ATPS%20Newsletter%202008b.pdf
- 2. Urama K.C., Momanyi M., Thuku C., (2009) ATPS Newsletter July – Dec 2009
- http://www.atpsnet.org/pubs/newsletter/ATPS%20 Newsletter%202009.pdf
- 3. Urama K.C., Thuku C., (2010) ATPS Newsletter January July 2010 (manuscript under preparation).
- 4. Urama K.C., Thuku C., (2010) ATPS Newsletter July December 2010 (manuscript under preparation).

# **Conference Proceedings**

 Momanyi M., and Urama K. C., (2010), Nothing for us Without Us: Workshop Proceedings Report; African Youth Forum for Science and Technology (AYFST) 5th Steering Committee Meeting and Workshop (ISBN: 9966-7434-6-4)

## http://www.atpsnet.org/Files/ayfst\_scm\_proceedings.pdf

- Mwangi, W. and Urama, K. (2010). There is plenty of room at the top because no one cares to get there. Proceedings report: African Women Forum for Science and Technology (AWFST) 2nd Steering Committee Meeting and workshop (under peer review).
- Urama, K. C., Ozor N., Olago D., Krhoda G., Amadi A., Mutua F., (2009), Kenya Talks Climate Change: Parliamentarians Climate Change Sensitization Workshop Report - In Press
- Urama, K. C., Ozor N., Bolo.M, (eds.) (2010), Africa's Response to Global Challenges through Science, Technology and Innovation: Annual Conference Proceedings Report, Abuja Nigeria, 24 – 27 November 2009, (manuscript under preparation).
- 5. Ozor N. (2010) Mainstreaming Climate change into University Curricula: Issues on Pastoralism, Needs and Processes. Proceedings of the Climate Change Adaptation in Africa- Supported Conference on Pastoralism and Climate Change Adaptation in Africa held 24-28 May at the Egerton University, Kenya. Link available at:

### **ATPS Publications**

# http://www.ccaa.iccamnet.org/Downloads/ CONFERENCE%20PROGRAMME.pdf

- 6. Ozor N., Oguguah N., and Ugwuoke M., (2010) Sharing the Lagos Mega-City Experience in the Integrated Management of Sea-level Rise and Flooding. Proceedings of the 1st World Congress on Cities and Adaptation to Climate Change held 28-30 May in Bonn, Germany. Link available at: http://resilient-cities.iclei.org/fileadmin/sites/resilientcities/files/docs/C3\_Descr\_20100526.pdf
- Ozor N., and Nnaji C., (2010) Why Farmers Find it Difficult to Adapt to Climate Change in Enugu State, Nigeria. Paper presented at the 15th Annual Conference of Agricultural Extension Society of Nigeria (AESON), held from 10-14 May 2010 at Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria.
- Momanyi M., Urama K., (2010) Proceedings of the ATPS Africa-Wide Workshop on "Effective Reporting on Science Technology and Innovation" held on 26 – 28 July 2010 Nairobi, Kenya, Organized and Conducted by: ATPS and Science Africa (Under Peer Review)

# **Journal Articles:**

- 1. Urama, K. C. and Ozor N., (2010) Impact of climate change on water resources in Africa and the role of adaption. Our Planet, Cambridge (In Press). Link available at: http://www.ourplanet.com/climateadaptation/climate-adaptation.php
- 2. Ozor N., and Nnaji Cynthia (2010) The Role of Extension in Agricultural Adaptation to Climate Change in Enugu State, Nigeria. Journal of Agricultural Extension and Rural Development
- Ozor N., Enete A., and E. Amaechina (2010) Drivers of rural urban interdependence and their contributions to vulnerability in food systems in Nigeria – A framework; Climate and Development (In Press)
- Mwangi W. and Adero N., (2010). Enhancing the adoption of Renewable Energy Technologies (RETs) under the Clean Development Mechanism. Energy for Sustainable Development Journal (In Press)
- Ozor, N. and Nnaji Cynthia (2010) Difficulties in adaptation to climate change by farmers in Enugu State, Nigeria. Journal of Agricultural Extension; Vol. 14(2): 106-122. Available online at: http://www.ajol.info/index.php/jae/article/ viewFile/64127/51924.

# **Multimedia Publications:**

- Video documentary: African Youth and Women in Science and Technology Steering Committee Meetings, August 9 -11, 2010, Accra, Ghana
- 2. Parliamentary workshop DVD: Towards Kenya's Climate Change Policy

3. Tears for Mother Nature DVD: Recitation on Climate Change and its Impacts.

## **Press releases:**

- Momanyi M. and Owiti J., (2010), ATPS and the Malawi National Commission for Science and Technology enter into partnership http://www.atpsnet.org/media\_centre/news/article. php?article=47
- Momanyi M. and Owiti J., (2010), Nothing for Us, Without Us: Africa's youth pledge to adopt a proactive approach to Science, Technology and Innovation policy dialogue and practice http://www.atpsnet.org/media\_centre/news/article. php?article=42
- Mwangi W., (2010), There is plenty of room at the top because no one cares to get there: Report from the 2nd AWFST Steering Committee Meeting held in Accra, Ghana http://www.atpsnet.org/media\_centre/ news/article.php?article=44
- 4. Momanyi M. and Owiti J., (2010), ATPS Brings African Science Journalists together to Enhance Reporting of Science, Technology and Innovation http://www.atpsnet.org/media\_centre/news/article. php?article=46
- Momanyi M. and Urama K., (2010), African Manifesto on Science, Technology and Innovation receives Praise at the Royal Society in London http://www.atpsnet.org/media\_centre/news/article. php?article=40
- Mwangi W., Momanyi M., (2010) ATPS to Collaborate with AIAE in "Innovative Alternatives to Prosperity Metrics in Africa (IAPMA)" Initiative; http://www.atpsnet.org/media\_centre/news/article. php?article=5
- Ozor N., Owiti J., (2010) ATPS to host a major International Conference on the State of Science, Technology and Innovation (STI) in Africa: Implications for Achieving the Millennium Development Goals (MDGs)

http://www.atpsnet.org/conferences/index.php

- Momanyi, M., (2010) ATPS Calls for Strengthening of National Systems of Innovation for Poverty Alleviation http://www.atpsnet.org/media\_centre/news/article. php?article=41
- 9. Momanyi, M., (2010) ATPS Convenes First Regional Steering Committee Meeting Intellectual Property Programme
- 10. Momanyi, M., (2010) ATPS Promotes STI for development at Rockefeller Africa Grantees Convening

### Other publications

- Urama K. C., Momanyi M., Kauffman R., Ozor N., (eds.) (2010), Realizing the Potential of Africa's Youth: Linking University education, research and business in sustainable agriculture; UniBRAIN Flyer – In Press
- Urama K. C., Momanyi M., (2010), "About ATPS Flier" (Revised ed.) – In Press
- 3. Momanyi M., Wekundah, J., (2010) IP Programme Prospectus – In Press

### **Conference Papers and Keynote presentations**

- 1 Momanyi M., (2010) Mindset Change From problems to solutions. Presentation made at the Third African Congress for Scientific Research and Technology, 2-4 November 2010, Cairo, Egypt
- 2 Urama, K., (2010) The African Manifesto on Science Technology & Innovation. Paper presented at the Royal Society of London, UK, 15 June 2010.
- 3 Ozor, N. and Nnaji Cynthia (2010) Why Farmers Find it Difficult to Adapt to Climate Change in Enugu State, Nigeria. Paper presented at the 15th Annual Conference of Agricultural Extension Society of Nigeria (AESON), held from 10-14 May 2010 at Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria.
- 4 Ozor, N., N. Oguguah, and M. Ugwuoke (2010) Sharing the Lagos Mega-City Experience in the Integrated Management of Sea level Rise and Flooding. Proceedings of the 1st World Congress on Cities and Adaptation to Climate Change held 28-30 May in Bonn, Germany. Link available at: http://resilient-cities.iclei.org/fileadmin/sites/resilientcities/files/docs/C3\_Descr\_20100526.pdf
- 5 Ozor, N. (2010) Mainstreaming Climate change into University Curricula: Issues on Pastoralism, Needs and Processes. Proceedings of the Climate Change Adaptation in Africa- Supported Conference on Pastoralism and Climate Change Adaptation in Africa held 24-28 May at the Egerton University, Kenya. Link available at:

### http://www.ccaa.iccamnet.org/Downloads/ CONFERENCE%20PROGRAMME.pdf

- 6 Mwangi, W., Urama, K., (2010) Climate Change, development and biodiversity presented at the World Wide Fund for Nature (WWF-EARPO) Naivasha II; Poverty Network in Africa 27-29 January 2010
- 7 Urama, K., (2010) Water efficiency and decoupling water productivity; A global assessment, presented at the Water Utilization in African Beverage Industries; Current practices and prospects on 24 March 2010
- 8 Urama, K., (2010) The Nigerian National Innovation Systems and Globalization Clinical Trials; presented at the NAFDAC Capacity Building Workshop, April 26-29, 2010 in Abuja, Nigeria
- 9 Ozor N. (2010) Role of policy in sustainable renewable

energy development in Africa. Paper presented at the International Conference on Jatropha Curcas derived Bio fuels organized and supported by The African Academy of Sciences (AAS) and held 22-23 February at Hilton Hotel, Nairobi, Kenya.

- 10 Ozor N. and Urama K. C. (2010) Role of the African Adaptation Network (AAN) in Climate Change Adaptation in Africa. Paper presented at the Roundtable on Economics of Adaptation for Africa; 27 - 28 April 2010 at African Development Bank Headquarters, Tunis, Tunisia.
- 11 Urama K. C. and Ozor N., (2010) Science, Technology and Innovation and Poverty Alleviation in Africa. Paper presented at the International conference on Harnessing Science, Technology and Innovation for National Development held 3-7 May at the Kenyan International Conference Centre, Nairobi, Kenya.
- 12 Momanyi, M., (2010) Communicating Science Technology and Innovation in Africa; some practical examples. Paper presented at the Rockefeller Foundation - Africa Grantee Convening held on 14 – 16 April 2010 in Nairobi, Kenya.
- 13 Momanyi, M., (2010) Barriers between Scientists and Media (Myth or Reality). Paper presented during the SET-DEV Focus Group Discussion; March 30, 2010 in Nairobi, Kenya
- 14 Ochugboju S., (2010) World Café Model, presented at the launch of the "Green Drinks, Nairobi" on 26 May
- 15 Alaba O., (2010) Strengthening National/Regional IP policy and legal framework in ESA; ATPS/BTA TK, ABS and effective regional IP systems; presented at the ARIPO conference in Harare, Zimbabwe
- 16 Alaba O., (2010) Trade policy and farmers welfare in Eastern and Southern Africa; Presented at Regional Policy Dialogue Workshop on Agricultural Commodity Markets Access for ESA, March 24-25, Nairobi, Kenya
- 17 Mwangi, J. (2010). Enhancing Renewable Energy Technologies (RETs) under the Clean Development Mechanism (CDM) in the African Women Scientists and Engineers (AWSE) workshop held at the Kenya School of Monetary Studies, from 18th -20th, August, Nairobi

# Translation of outputs into French:

During the reporting period the following outputs were translated into French and are currently in press:

- 1. Urama K.C., Francis J., Momanyi M., et al. (2010) Innovations agricoles pour le développement durable Le rôle du Forum des jeunes pour la science et la technologie, Volume 1 Numero 1
- Chimedza R.V., Urama K.C., Francis J., Momanyi M., et al. (2010) Concours Scientifique des Jeunes Proffesionels et des femmes dans les concours de sciences à l'intention de l'ensemble de l'Afrique; Rapport Sommaire

Science, Technology and Innovations for African Development

From left, Board Chairman, Prof. Sam Wangwe, Prof. Maged El-Sherbiny, Assistant Minister for Scientific Research, Egypt and Former Board Chair Prof. Norah Olembo.

# Annex 1: Financial Statement

Deloitte & Touche Certified Public Accountants (Kenya) Deloitte Place Waiyaki Way, Muthangari P.O. Box 40092 - GPO 00100 Nairobi Kenya Tel: +254 (20) 423 0000

+254 (20) 444 1344/05-12 Fax: +254 (20) 444 8966 Dropping Zone No. 92 E-mail: admin@deloitte.co.ke www.deloitte.com

# INDEPENDENT AUDITORS' REPORT ON THE FINANCIAL STATEMENTS OF AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS)

### Report on the financial statements

**Deloitte.** 

We have audited the accompanying financial statements of African Technology Policy Studies Network (ATPS), set out on pages 25 to 41 which comprise the statement of financial position as at 31 December 2010, and the statement of comprehensive income, statement of changes in equity and statement of cash flows for the year then ended, and a summary of significant accounting policies and other explanatory notes.

#### Directors' Responsibility for the Financial Statements

The directors are responsible for the preparation of financial statements that give a true and fair view in accordance with International Financial Reporting Standards and the requirements of the Kenyan Companies Act, and for such internal controls as directors determine are necessary to enable the preparation of financial statements that are free from material misstatements, whether due to fraud or error.

### Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with International Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, we considered the internal controls relevant to the company's preparation and fair presentation of the financial statements in order to design audit procedures that were appropriate in the circumstances, but not for the purpose of expressing an opinion on the company's internal controls. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the directors, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### Opinion

In our opinion the accompanying financial statements give a true and fair view of the state of financial affairs of the company as at 31 December 2010 and of its surplus and cash flows for the year then ended in accordance with International Financial Reporting Standards and the requirements of the Kenyan Companies Act.

# INDEPENDENT AUDITORS' REPORT ON THE FINANCIAL STATEMENTS OF AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS) (Continued)

#### **Report on Other Legal Requirements**

As required by the Kenyan Companies Act we report to you, based on our audit, that:

- i) we have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit;
- in our opinion proper books of account have been kept by the company, so far as appears from our examination of those books; and
- iii) the company's statement of financial position and statement of comprehensive income are in agreement with the books of account.

Debitte & Touche

Certified Public Accountants (Kenya)

11 July 2011

Nairobi

# AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS) (A COMPANY LIMITED BY GUARANTEE)

# STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 31 DECEMBER 2010

	¥.	2010	2009
3	Note	US\$	US\$
INCOME	2	2,163,144	1,687,201
	3		+
EXPENDITURE	-		
Project expenditure	3	(2,001,440)	(1,537,007)
General administration	3	(147,971)	(146,198)
		(2,149,411)	(1,683,205)
Finance income	· 4	7,219	955
	36.		
		(2,142,192)	(1,682,250)
SURPLUS FOR THE YEAR		20,952	4,951
		the set of the set of the set of the set	

# AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS) (A COMPANY LIMITED BY GUARANTEE)

# STATEMENT OF FINANCIAL POSITION 31 DECEMBER 2010

	2010	2009
• Note	US\$	US\$
6	67,319	14,680
, 7	7,385	5,448
	74,704	20,128
8	74,500	170,705
9	41,432	32,962
	763,794	843,553
	879,726	1,047,220
	954,430	1,067,348
	40,057	19,105
8	244,780	497,374
10	123,405	73,021
11	546,188	477,848
	914,373	1,048,243
	Note	Note US\$ $ \begin{array}{ccccccccccccccccccccccccccccccccccc$

and signed on their behalf by:

EXECUTIVE DIRECTOR

DIRECTOR
#### AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS) (A COMPANY LIMITED BY GUARANTEE)

#### STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 31 DECEMBER 2010

2/	л.	General Fund US\$
At 1 January 2009		14,154
Surplus for the year	•	4,951
At 31 December 2009		19,105
At 1 January 2010		19,105
Surplus for the year		20,952
At 31 December 2010		40,057

#### AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS) (A COMPANY LIMITED BY GUARANTEE)

#### STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 31 DECEMBER 2010

	2010	2009
1	US\$	US\$
OPERATING ACTIVITIES		
Surplus for the year	20,952	4,951
Adjustments for:		
Depreciation	10,160	11,145
Loss on sale of equipment	409	-
Amortisation	3,106	2,527
Operating surplus before working		
capital changes	34,627	18,623
Decrease in grants receivable	96,205	119,018
Increase in other receivables	(8,470)	(5,586)
(Decrease)/increase in unexpended grants	(252,594)	279,694
Increase in payables and accruals	50,384	9,301
Increase in undisbursed grants payable	68,340	304,394
Net cash (used in)/generated from operating activities	(11,508)	725,444
INVESTING ACTIVITIES		
Purchase of furniture and equipment	(63,833)	(9,882)
Purchase of intangible assets	(5,043)	(5,993)
Proceeds on disposal of equipment	625	-
Cash used in investing activities	(68,251)	(15,875)
(DECREASE)/INCREASE IN CASH AND CASH EQUIVALENTS	(70.750)	709,569
(DECKERSE)/INCREASE IN CASH AND CASH EQUIVALENTS	(79,759)	709,309
CASH AND CASH EQUIVALENT AT 1 JANUARY	843,553	133,984
CASH AND CASH EQUIVALENTS AT 31 DECEMBER	763,794	843,553
Represented by:		

4	AWFST					
	GRANT CODE	LEAD INVESTIGATOR OTHER PROPO	OTHER PROPONENTS	TITLE OF PROPOSAL	COUNTRY	STATUS
<u> </u>	CSP/ 0501/10-01	Dr. Happiness Oselebe	Ms Kate Nnamani V Dr Andrew Efisue Prof Donatus Onu	Smallholder rice farmers in South Eastern Nigeria: Constraints. Impact, mitigation and adaptation to climate change	Nigeria	Commissioned
i)	CSP/ 0502/10-01	Martha Ada Ugwu	N./A	Waste Minimisation Programme (WIP)	UK	Commissioned
с.	CSP/ 0504/10-01	Elinorata Mbuya	N/A	Climate Change Awareness and Indigenous Innovative Adaptation Measures applied by the Maasai Society in Tanzania	Tanzania	Commissioned
4	CSP/ 0504/10-02	Ann Nnenna Ezeh	Ms.Ngene Pricilla Nnenna Ms Ugwu, Jennifer Nkechi	Farm Level Responses to Climate Change and Sustainable Agro- Ecosystem Management in Marginal Lands of Ebonyi State, Nigeria	Nigeria	Commissioned
പ	CSP/ 0504/10-05	Joy Samantha Bongyereire	N/A	Moving Forward in a Changing Climate: Poverty Reduction through Sustainable Environmental Management (PRESEM)	Uganda	Commissioned
ý.	CSP/ 0504/10-07	Viola Kirui	Bockline Omedo Bebe	bathways for nation and oups for cenya	Kenya	Commissioned
Ч.	CSP/ 0504/10-08	Grace A. Achiando	Dr. Rhoda Birech	Identifying Indigenous knowledge and effective communication systems for adaptation to climate change by smallholder farmers of Kilifi District, Kenya	Kenya	Commissioned

# Annex 2: grants

	<b>GRANT CODE</b>	LEAD INVESTIGATOR	OTHER	TITLE OF PROPOSAL	COUNTRY	STATUS
coi	CSP -0504/10-09	Barrister Onyeke ()	Okpe Valentine Chijioke	Strategies for Promoting Sustainable Indigenous Practises in Adaptation, Resilience Capacity Building and Mitigation of Deforestation, Desertification and Drought in Rural African Communities	Nigeria	Commissioned
6.	CSP/ 0501/10	Aliet Ondicho	Dr. Mwangi Kinyanjui Dr. Ben Mwasi	The Effect of Human Activities on the Role of Forests as a Carbon Sink - The Case of Mau Forest, Kenya	Kenya	Commissioned
4	AYFST					
10.	10. CP/ 0401/10-02	Tibebu Solomon	Mr. Muktar Ahmed Sh. Abdi Mr Adamu Zegeye	Assess the rationale and competence of pastoral community innovative adaptation to the incidence of climate change in	Ethiopia	Commissioned
			Getahun Asfaw	Ethiopia		
			Mr Wondwossen Belete			
	11. CP/ 0401/10-05	Mr. Sekaleli Ts'epo Stephen	Mr. Sebusi Karabo	The Integration of Conservation Agriculture to Agro-forestry system	Lesotho	Commissioned
			Mr. Nkhase Tlotlisang	as an adaptation strategy to climate change		
			Mr. Matlabe Charles Eti			
12.	CP/ 0401/10-06	Ebenezer Nyarko Kumi	Prof. Abeeku Brew- Hammond	Design and Analysis of a 1MW Grid-Connected Solar Photovoltaic System In Kumasi-Ghana	Ghana	Commissioned

**Annex 2: GRANTS** 

Annex 2: GRAI	NTS					
Commissioned	Commissioned	Commissioned	Commissioned	Commissioned	Commissioned	Commissioned
Nigeria	Zimbabwe	Nigeria	Nigeria	Nigeria	Tanzania	Malawi
Detailed measurements of vehicular carbon footprints emissions concentration level in Minna, Niger State, Nigeria and the Environmental Pollution cum Climate Change Effect	Near real-time applicatin and validation of a multi-temporal threshold algorithm in active forest fire detection and monitoring in Zimbabwe using MSG satellite		Evaluation of the CMIP3 Model on the Simulation of the South Atlantic ocean Dipole	Developing the Capacity and Improving Access of Small-scale Farmers to Low Cost Artificial Substrate Mushroom Cultivation in South-Eastern Nigeria	Utilization of the Potential Rain Water Harvesting Technology for Improving Food Security in Dry Areas, The Case of Bahi District, Dodoma	Harnessing Indigenous Knowledge on Small-Scale Soil and Water Conservation Innovations to Enhance Farmer Adaptation to Climate Change in Central Malawi
Arc. Babafemi Oyediran Mr Lookman Abdullah Mr. Anu Ojo Ms. Tolulope Adebayo	N/A	Prof. C. O. Akubuo	Professor Jianping Li	Prof. Igbokwe Edwin Mbadiwe	N/A	Mr. Amon Kabuli
Francis Okelola Olumayokun	Tawanda Manyangadze,	Mr. J.N. Nwakaire	Hyacinth C. Nnamchi	Mr. Mmaduabuchukwu Mkpado	Deusdedit Kibassa	Ms Loma Nyangulu
13. CP/ 0401/10-08	14. CP/ 0402/10-04	15. CP/ 0402/10-05	16. CP/ 0403/10-01	17. CP/ 0403/10-02	18. CP/ 0404/10-01	19. CP/ 0404/10-02

#### 

Anr	nex 2: GR/	NTS			
STATUS	Commissioned	Commissioned	Commissioned	Commissioned	Commissioned
COUNTRY	Ethiopia	Ethiopia	Kenya	Benin	South Africa
TITLE OF PROPOSAL	Climate Change Analysis: Improve Farmers' Resilience to Climate Related Hazards in the Upper Catchment of Blue Nile, Ethiopia	Assessing Indigenous Climate Change Adaptation and Mitigation and Improving Resilience and Decision Making Capacity of Smallholder farmers in response to climate risks in Tigray, Northern Ethiopia	Assessment of the vulnerability and adaptation strategies to climate variability and change of the Bos- taurus dairy genoty-pes under diverse productin environments in Kenya	Les Jeunes moteurs des Communautés résilientes face au changement climatique dans les villes de Karimama et de Malanville	Analysis of the role of ICTs in Climate Change Awareness; Adaptation and Mitigation in Rural South Africa and Zimbabwe
OTHER PROPONENTS	Mr. Azmeraw Ayehu Tesfahun, Mr. Andent Deressa,	Mr. Desta Gebremichael,	Bockline Omedo Bebe,	Gilles AFFO, Michael Okan, Yllias Lawani,	N/A
LEAD INVESTIGATOR	Mr. Bewket Amdu	Kiros Meles Hadgu,	Kiplangat Ngeno	Abdelaziz Lawani	Shakespear Mudombi
GRANT CODE	CP/ 0404/10-04	CP/ 0404/10-05	CP/ 0404/10-06	CP/ 0405/10-03	CP/ 0405/10-07
			22.	23.	24.

#### Annex 2: GRANTS

# Annex 3: Where we work



### **About ATPS**

The African Technology Policy Studies Network (ATPS) is a multi-disciplinary network of researchers, private sector actors, policy makers and civil society actors promoting the generation, dissemination, use and mastery of science, technology and innovation (STI) for African development, environmental sustainability and global inclusion. Its mission is to improve the quality of STI research, policy and practice for sustainable development in Africa, by Africans and for Africa.

In collaboration with like- minded institutions, ATPS provides platforms for regional and international research and knowledge sharing for the identification and prioritization, development, use and mastery of STI for sustainable social, economic and environmental development in Africa. With a Secretariat Headquarters in Nairobi, Kenya, it operates through national chapters in 29 countries (including Anglophone, Lusophone and Francophone countries) with an expansion plan to cover the entire sub-Saharan Africa, by 2015. ATPS has also initiated new natioal chapters/ focal points in the US and the UK. As an international organization, ATPS enjoys the privileges and diplomatic immunities accorded to similar international organizations in Kenya.





# Annex 4: donors

#### The Rockefeller Foundation

New York Office The Rockefeller Foundation 420 Fifth Ave New York, NY 10018, USA

#### The Rockefeller Foundation

Nairobi Office Capitol Hill Square, Western Wing, 3rd Floor, Chyulu Road, off Haile Selassie Avenue, Upper Hill P.O Box 14531-00800, Nairobi, Kenya

#### The Royal Dutch Government

Ministry of Foreign Affairs Social Development Department Education and Research Division (DSO/OO) Bezuidenhoutseweg 67 2594 AC The Hague, The Netherlands

#### Maastricht University

Faculty of Arts and Social Sciences, PO Box 616, NL-6200 MD Maastricht The Netherlands

#### **DANIDA - – UniBRAIN Programme** Asiatisk Plads 2 1448 Copenhagen K

#### **The Forum for Agricultural Research in Africa** (FARA) – UniBRAIN Programme PMB CT 173/12

Anmeda Street, Roman Ridge, Accra, Ghana

### **UNEP - Division of Technology, Industry and Economics (DTIE)** 15 rue de Milan

75441 Paris Cedex 09, France

### The Economics of Ecosystems and Biodiversity (TEEB)

Helmholtz-zentrum für Umweltforschung GmbH – UFZ Permoserstralße 15 04318 Leipzig, Germany

#### Intergovernmental Panel on Climate Change (IPCC)

IPCC Secretariat c/o World Meteorological Organization (WMO) 7 bis, Avenue de la Paix C.P. 2300 CH-1200 Geneva 2, Switzerland

### United Nations Educational, Scientific and Cultural Organization (UNESCO)

1, rue Miollis 75732 Paris Cedex 15 France

**European Commission Framework 7 Programme** Rue Archimède 73 1000 Brussels, Belgium

#### University of Sussex

ESRC STEPS Centre Institute of Development Studies University of Sussex Falmer Brighton, East Sussex, UK BN1 9RE

# Annex 5: ATPS Board Members

#### Prof. Sam M. WANGWE (Chair)

Executive Director Research on Poverty Alleviation (REPOA) 157 Mgombani Street Regent Estate P.O. Box 33223 Dar es Salaam, Tanzania Tel: +255-22-2700083/2772556 Fax: +255-22-2775738 Email: swangwe@repoa.or.tz or swangwe@yahoo.com

#### Prof. Turner T. ISOUN (Member)

Former Honourable Minister, FMST 1 Ministers Hill off 40 Colorado Close Maitama, Abuja Nigeria Tel: +234-9-523 3397 Fax: +234-9-523 4390 Cell: +234 805 960 0023 E-mail: ttisoun@aol.com

#### Prof. Oliver SAASA (Member)

Managing Consultant Premier Consult P.O. Box 38163 Lusaka, Zambia Tel: +260-1-290056 Telefax: +260-1-290581 Cell: +260 977 827114 E-mail: oliver-saasa@coppernet.zm or premier-consult@coppernet.zm

#### Mayor Noël Akossi BENDJO (Member)

Mayor and Vice Governor Abidjan District B.P. V 261 Abidjan Cote d'Ivoire Tel: +225 20 254902 Fax: +225 20 333039 Cell: + 225 05 59 59 51 / 08086969 Email: Bendjo51@yahoo.com

#### Prof. Sir Brian HEAP (Member)

Vice-President European Academies Science Advisory Council The Royal Society of London SW1Y 5AG And Honorary Fellow St Edmund's College Cambridge CB3 0BN, UK Tel: +44 1223 248509 Email: rbh22@cam.ac.uk

#### Prof. Banji Oyeleran-OYEYINKA (Member)

Director, Monitoring & Research Division UN-HABITAT, UN, Gigiri P.O. Box 30030-00100 Nairobi, Kenya Tel:+ 254-020-7623041 Fax:+254-020-7624736 Email: oyebanji.oyeyinka@unhabitat.org

#### Prof. A. W. MWANG'OMBE, EBS (Member)

Principal, College of Agriculture and Veterinary Sciences and Professor of Plant Pathology University of Nairobi P.O. Box 30197-00100 GPO Nairobi, Kenya Tel: +254-20-2055126 Cell: +254 722 788995 E-mail: mwangombe@kenyaweb.com

#### Prof. Indira NATH (Member)

Institute of Pathology (ICMR) Safdarjung Hospital Campus New Delhi 110029 India Tel: +91 11 26100754 Home: +91 11 26517707 E-mail: indiranath@gmail.com

#### Professor Shaukat Ali ABDULRAZAK (Member)

National Council for Science and Technology P.O. Box 30623-0010 Nairobi, Kenya Tel: +254 20 2242175 Cell: +254 721 107867 E-mail: secretary@ncst.go.ke or sabdulrazak@yahoo.com

#### Dr. Kevin URAMA (Ex-Officio)

Executive Director African Technology Policy Studies Network (ATPS) 3rd Floor, The Chancery, Valley Road P.O. Box 10081-00100 Nairobi, Kenya Tel: +254-20-271 4098/168/498 Fax: +254-20-271 4028 Email: kurama@atpsnet.org

### Annex 6: ATPS Responsible Innovation Advisory Committee

#### 1. Dr. Philippe Kuhutama Mawoko

Coordinator African Science, Technology & Innovation Indicators (ASTII) Initiative NEPAD Office of Science & Technology Tel: +27 (12) 841 4347 Mobile: +27 (83) 258 6104 Fax: +27 (12) 841 4414 E-mail: pkmawoko@nepadst.org Website: http://www.nepadst.org

#### 2. Prof. Wiebe E. Bijker

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#### 3. Prof. Norman Clark

The Open University, Milton Keynes MK7 6AA, United Kingdom Email: n.clark@open.ac.uk or norman18542@yahoo.co.uk

#### 4. Prof. Bob Orskov

The Orskov Foundation c/o The Macaulay Institute Craigiebuckler, Aberdeen AB15 8QH Scotland, UK Tel: +44 1224 498200 E-mail: b.orskov@macaulay.ac.uk Website: http://www. orskovfoundation.org/

#### 5. Prof. Andy Hall

Researcher United Nations University – MERIT Maastricht, The Netherlands E-mail: hall@merit.unu.edu or andyhallmails@yahoo.com

#### 6. Prof. Peter H. May

President International Society of Ecological Economics (ISEE) Chair, Department of Development, Agriculture and Society Federal Rural University of Rio de Janeiro, Brazil Tel: +55 21 2551 1320 E-mail: peter@rebraf.org.br

#### 7. Prof. Norah K. Olembo

Executive Director, African Biotechnology Stakeholders Forum P. O. Box 66069, Nairobi 00800 Kenya Tel: +254-20-444 4558 E-mail: absf@absfafrica.org or noraholembo@yahoo.com

#### 8. Prof. HODGE, Ian David,

Professor of Rural Economy, Department of Land Economy, University of Cambridge 19 Silver Street, Cambridge CB3 9EP Tel: +44 1223 337134 Fax: +44 1223 337132 E-mail: idh3@cam.ac.uk

#### 9. Prof. Ishenkumba Kahwa

Dean, Faculty of Pure and Applied Sciences Mona Campus, The University of the West Indies Kingston 7, Jamaica E-mail:ishenkumba.kahwa@gmail. com

#### 10. Prof. Lynn K. Mytelka

Professorial Fellow UNU-MERIT 35, rue Lhomond 75005 Paris, France CODE de LA PORTE: 357B Tel: +33 1 47 07 37 90 E-mail: Lmytelka@gmail.com

#### 11. Dr. George O. Essegbey

Director, STEPRI-C.S.I.R. P.O. Box CT 519, Accra, Ghana Tel: +233-21-779401/773856 Email: george\_essegbey@yahoo. co.uk

#### 12. Prof. Francis Mutua

National Project Coordinator Applied Training Project Nile Basin Initiative Nairobi, Kenya Tel: +254 20 208 0371 E-mail: fmutua@nilebasin.org or fmmutua@gmail.com

#### 13. Dr. Kevin Urama (ATPS

Secretariat Representative) Executive Director African Technology Policy Studies Network (ATPS) P.O. Box 10081-00100, Nairobi, Kenya Tel: +254 20 2714028 Fax: + 254 20 2714028 E-mail: kurama@atpnet.org

#### 14. Dr. Musa A. Dube - (ATPS

National Chapters – Southern Africa Representative) ATPS-Swaziland National Coordinator Senior Lecturer & ATPS National Coordinator Faculty of Agriculture, University of Swaziland Tel : +268 527 40 21 Email: madube@agric.uniswa.sz

#### 15. Prof. Michael C. Madukwe

(ATPS National Chapters – Western Africa Representative) ATPS-Nigeria National Coordinator Professor, Department of Agricultural Extension University of Nigeria Nsukka, Enugu State, Nigeria Tel: +234 42 771019 Email: madukwe@hotmail.com or madukwemichael@yahoo.com

# Annex 7: secretariat

ATPS has an independent and dynamically evolving Secretariat Staff which provides executive direction and physical infrastructure to the network. The Secretariat is led by the Secretariat Management Committee (SMC) chaired by the Executive Director and comprises of the Financial and Administration Manager; the Research and Training Manager, the Communication and Outreach Manager, the STI Policy Liaison Officer (National Chapters' Liaison Officer); and the Senior Secretary/ Administrative Assistant. Other secretariat staff comprises STI Professionals, Science Communication Experts and Administrative support staff. An integral part of the ATPS Secretariat is the Youth capacity building through Student Internship program.

The SMC provides strategic intellectual and administrative direction to the regional activities of the ATPS. The Responsible STI Advisory Committee and the ATPS National Coordinators' Regional Steering Committee liaise with the Secretariat in the implementation and evaluation of the ATPS Programs. The ATPS Secretariat Staff in 2010 include:

#### **Staffing Positions 2010**

1. Dr. Kevin C. Urama	Executive Director
2. Mr. Richard Murimi Muriuki	Finance and Admin Manager
3. Wairimu Mwangi	Research Officer
4. Dr Nicholas Ozor	Senior Research Officer
5. Ms. Carol Thuku	Senior Secretary/Programs Administrative Assistant
6. Mr. Marsden Momanyi	Communications Officer
7. Mr. Nelson Akenga	Information Technology Assistant
8. Richard Muchesia	Driver/Messenger
9. Philip Osano	Research Officer
10. Maurice Bolo	Post Doctoral Research Officer
11. Hannah Adari	Communication Assistant
12. Steven Otieno	Accounts Assistant

# Annex 8: ATPS National Chapter Coordinators Regional Steering Committee Members

#### 1. Dr. Sylvester NDESO ATANGA

ATPS Cameroon Faculty of Health Sciences University of Buea P.O. Box 63 South West Province Republic of Cameroon Tel: + 237-75816047 Cell: +237-99841433 Email: ndiande@yahoo.com

#### 2. Dr Arsène Konan KOUADIO

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#### 3. Prof. Michael MADUKWE

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#### 4. Prof. Femi OLOKESUSI

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#### 5. Dr. Musa DUBE

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#### 6. Mr. Kenneth W. ADUDA

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#### **Ex-Officio Members** 7. Dr. Kevin C. URAMA

Executive Director African Technology Policy Studies Network P.O. Box 10081-00100 Nairobi, Kenya Tel: +254 20 2714092 Fax: +254 20 2714028 Email : kurama@atpsnet.org

#### 8. Dr. George Owusu ESSEGBEY

Director STEPRI/CSIR P.O. Box CT 519, Accra, Ghana Tel: +233 21 773856 Fax: +233 21 773068 Cell: +233 243 753314 Email: george\_essegbey@yahoo. co.uk

## Annex 9: ATPS National Coordinators & Focal Points

#### 1. Benin

Dr. Roch L. MONGBO Senior Lecturer & Researcher FIDESPRA/Univ. of Abomey Calava and CEBEDES – XU dodo 02 BP 778 Cotonou, Benin Tel: +229-21304139 Cell : +229 95 96 64 46 Email: Rochl\_mongbo@yahoo.fr

#### 2. Botswana

Vacant

#### 3. Burkina Faso

Dr. Benoit KABORE Université de Ouagadougou 01 BP 4487 Ouagadougou 01, Burkina Faso Cell : +226- 70403013 / 78812008 /75980731 Email: benkabor2003@yahoo.fr

#### 4. Cameroon

Dr. Sylvester NDESO ATANGA Lecturer, Epidemology & Public Health Faculty of Health Sciences University of Buea P.O. Box 63 South West Province Republic of Cameroon Tel: + 237-75816047 Cell: +237-99841433 Email: ndesoatpscamnet@rocketmail. com or ndiade@yahoo.com

#### 5. Côte d'Ivoire

Dr. Arsène KOUADIO, Associate Professor, University of Abidjan-Cocody; Researcher, CIRES Director, Laboratoire de croissance Economique Executive Director, Institut pour le Développement (IPD), Coordinator, ATPS Côte d'Ivoire, Coordinator, RIA Côte d'Ivoire, Fellow Researcher, AERC, Poverty Economic Policy (PEP), Cocody, Boulelevard Latrille 08 B.P. 1295 Abidjan 08, Côte d'Ivoire Tel: +225 22 44 60 99 Fax: +225 22 48 82 84 Mobile : +225 07 98 46 80 / 05 95 97 91 E-mail: arsene.k@ipd-ci.org, arsenekk@yahoo.fr arsenekouadio@hotmail.com

#### 6. Egypt

Ms. Manal Moustafa SAMRA Focal Point Coordinator 45 Noubar Street, Bab El-Louk 8th Floor, Apt 29,Cairo, Egypt Tel: +20105005284 Email: mmsamra@gmail.com

#### 7. Ethiopia

Mr. Wondwossen Belete National Coordinator ATPS-Ethiopia P.O.Box 25453 Addis Ababa, Ethiopia Tel: 251-11-6462428 Cel: +251-911-886709 Email: wondwossenbel@yahoo.com

#### 8. The Gambia

Vacant

#### 9. Ghana

Dr. Fred AMU-MENSAH Senior Research Scientist CSIR Water Research Institute P.O. Box M.32, Accra, Ghana Tel: +233-24-4748197 Fax: +233 21 77 7170 Email: assabil@aim.com or obeyie@ gmail.com

#### 10. Kenya

Mr. Kenneth W. ADUDA Projects & Resource Mobilization Manager Kenya Industrial Research Development Institute (KIRDI) P.O. Box 54139-00200 Nairobi, Kenya Tel: +254 20 609498 Fax: +254 20 556362 Cell: + 254 721 466444 Email: adudakenwo@gmail.com

#### 11. Lesotho

Mr. Denis Sekoja Phakisi Acting National Coordinator Manufacturing Manager Loti Brick P.O. Box 8008, Maseru 100, Lesotho Tel: +266 5885 3389 Fax: +266 22310071 Email: ds.phakisi@lycos.com

#### 12. Liberia

Dr. Wollor Emmanuel TOPOR National Coordinator Acting Dean College of Science and Technology University of Liberia Tel: + 231-6875802 Email: wollortopor@yahoo.com

#### 13. Malawi

Prof. Henry MLOZA-BANDA Professor of Agricultural Ecology University of Malawi Faculty of Agriculture Lilongwe, Malawi Cell: +265 888 854 123 Email: mlozab@yahoo.co.uk

#### 14. Mali

Dr. Sidiki Gabriel DEMBELE Agrochimie/Agroforesterie et Fertilité des sols Bureau Ouest-Africain d'Appui Organisational et de Technologies Appropiées B.P. E 3730, Bamako, Mali Tél. : (223) 226 2012 Fax : (223) 226 2504 Cell : (223) 71 3806 Email: sidikigabriel@hotmail.com or filifingdem@yahoo.fr

#### 15. Morocco

Prof. Dr. Saïd BOUJRAF Proposed National Coordinator Director of the Clinical Neuroscience Laboratory Department of Biophysics and Clinical MRI Methods Faculty of Medicine and Pharmacy, University of Fez BP. 1893; Km 2.200, Sidi Hrazem Road, Fez 30000, Morocco Tel: +212 667 780 442 Fax: +212 535 619 321 E-mail: sboujraf@gmail.com

### Annex 9: ATPS National Coordinators & Focal Points

#### 16. Mozambique

Eng. Lourino Alberto CHEMANE ICT and Planning Advisor Executive Secretariat, ICT Policy Commission Bairro da Coop Rua Particular Dr. Antonio de Almeida 61 R/C Direito, Maputo Moçambique Tel: +258 21 309398 Fax: +258 21 302289 Cell : +258 82 3110700 Email: chemane@infopol.gov.mz

#### 17. Nigeria

Prof. Michael C. MADUKWE Professor, Department of Agricultural Extension University of Nigeria Nsukka, Enugu State, Nigeria Tel: +234 42 771019 Fax: +234 42 771500 Cell: +234 803 700 6968 Email: madukwemichael@yahoo.com

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#### 18. Rwanda

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#### 19. Senegal

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**24. Tanzania** Vacant

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# Annex 10: List of Regional Steering Committee Members for the IP Program

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3.	Dr.Victoria Henson- Apollonio,	Senior Scientist, Project Manager The Central Advisory Service on Intellectual Property (CAS-IP) A CGIAR System Office Unit, hosted by Bioversity International	Via dei Tre Denari, 472/a 00057 Maccarese, Rome, Italy Tel: +39 066118300 Fax: +39 0661979661 Email: v.henson-apollonio@cgiar.org
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9.	Mr. Peter Munyi	Chief Legal Officer ICIPE Nairobi, Kenya	Email: pmunyi@icipe.org
10.	Mr. Joseph Wekundah	Executive Director Biotechnology Trust Africa	Family Health Plaza Building P.O. Box 1285-00100, 1st Floor Nairobi, Kenya Tel: +254-020-6000040/6003983 Fax: +254-020- 6003358 Cell: +254 (0) 722205391 Email: biotechafrica@gmail.com
11.	Dr. Kevin Chika Urama	Executive Director African Technology Policy Studies Network	3rd Floor, The Chancery, Valley Road P.O. Box 10081-00100 Nairobi, Kenya Tel: +254-20-271 4098/168/498 Fax: +254- 20-271 4028 Email: executivedirector@atpsnet.org Website: www.atpsnet.org

# Annex 11: List of National Steering Committee Members

# for the IP Program

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### Annex 11: List of National Steering Committee Members for the IP Program

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Mr. Chapusa Domino Phiri	Assistant Registrar General, Ministry of Justice C D Consultants, P.O Box 30590, Chichiri, Blantyre 3, Malawi Or Ministry of Justice, Registrar General Department, P.O Box 100, Blantyre, Malawi
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SWAZILAND	
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Dr. Abednego M. Dlamini	Abednego Dlamini University Of Swaziland Private Bag Luyengo
Dr. Rosemary Lencane Vilakati	Lecturer in the University of Swaziland, Department of Animal Production and Health
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### Annex 11: List of National Steering Committee Members for the IP Program

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TANZANIA	
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UGANDA	
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ZIMBABWE	
Billy Billiards Mukarmuri (PhD)	Centre for Applied Social Sciences, (CASS) University of Zimbabwe P O Box MP 167 Mount Pleasant Tel: 263-4-912-112774 or 04-303306, Fax: 256-4-307134 Email: bmukamuri@sociol.uz.ac.zw or bmukamuri@mail.com
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Dr Donald Peter Chimanikire	University of Zimbabwe, Institute of Development Studies, P.O. Box MP 167, Mount Pleasant, Harare, Zimbabwe Tel: +263 4 303211 ext: 12101 Cell: +26311 808 002/ +263 913 020 486 Email: dpchimanikire@science.uz.ac.zw; or donchim2000@yahoo.co.uk
Dahlia Garwe (nee Gonye), Dr	Tobacco Research Board Box 1909, Harare Phone +263-4-575412; +263-4 575289-94, Fax +263 4 575288 Cell +263 11 881 808, E-mail: dgarwe@kutsaga.co.zw
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# Annex 12: List of Ongoing Implementation Programs and Programs Coordinators

PROGRAM TITLE AND REFERENCE CODE AND DURATION	PROGRAM DIRECTOR	SECRETARIAT	EXTERNAL PROGRAM COORDINATORS
Knowledge Management and AppropriationStrategiesStrengthening the National IntellectualDr. Kevin C.Property (IP) Policy and Legal Frameworks/Dr. Kevin C.in East and Southern Africa: TraditionalE-mail: kurarKnowledge Access and Benefit Sharing andEffective IP System (2008 – 2012)1. ATPS CP/0209 - Traditional KnowledgeSystems & Increasing Access to BenefitSystems & Increasing Access to BenefitSharing of Intellectual Property in Africa(Jan- Dec 2010)Dec 2010)	<b>n Strategies</b> Dr. Kevin C. Urama E-mail: kurama@atpsnet.org	Dr. Maurice Bolo Email: mbolo@atpsnet.org	Mr. Joseph Wekundah, (Lead Coordinator) Executive Director, Biotechnology Trust Africa, KENYA E-mail: biotechafrica@gmail.com
Agricultural Innovation Programs: ATPS CP/0309 - 1. Agricultural Innovations for Climate Change Adaptation and Food Security in Africa (Jan 2010 – Dec. 2011) 2. Linking Universities Business, and Research and Agricultural innovation (UniBRAIN)- (2010 – 2014)	Dr. Kevin C. Urama E-mail: kurama@atpsnet.org	Dr. Nicholas Ozor, Senior Research Officer, ATPS E-mail: nozor@atpsnet.org	Prof. Michael Madukwe, (Lead Coordinator) National Chapter Coordinator, Nigeria and Regional Council Member, West Africa. Member, ATPS International STI Council, NIGERIA E-mail: madukwemichael@yahoo.com
			Dr. Musa Dube, National Coordinator, Swaziland and Regional Council Member, Southern Africa. SWAZILAND. Member, ATPS International STI Council, E-mail: madube@agric.uniswa.sz
			Prof. Egil Robert Orskov Director, International Feed Resource Unit (IFRU) , Macaulay Institute . Member, ATPS International STI Council, UNITED KINGDOM E-mail: b.orskov@macaulay.ac.uk

### Annex 12: List of Ongoing Implementation Programs and Programs Coordinators

PROGRAM TITLE AND REFERENCE CODE AND DURATION	PROGRAM DIRECTOR	SECRETARIAT	EXTERNAL PROGRAM COORDINATORS
Climate Change Adaptation and Mitigation			
1. Climate Sense program:Dr. Kevin C. Urama(a) ATPS CP/0109: Emerging and IndigenousE-mail: kurama@atpsnet.orgTechnologies for Climate ChangeAdaptation in Africa (Jan – Dec 2010)	Dr. Kevin C. Urama E-mail: kurama@atpsnet.org	Ms. Wairimu Mwangi, ATPS Research Officer: wmwangi@ atpsnet.org in collaboration with Dr. Nicholas Ozor, ATPS Post-	Prof. Francis M. Mutua, (Lead Coordinator). Member, ATPS International STI Council, Professor of Hydrology, Department of Meteorology, University of Nairobi
(b) Climate Change Innovation Award 2010 i. Call No. ATPS-CP-0400/10) -Building the capacity of Africa's Youth in climate change adaptation and impacts mitigation, and resilience building through science, technology and innovation		Doctoral Researcher, E-mail: nozor@atpsnet.org	Nairobi, KENYA E-mail: fmmutua@gmail.com Prof. Eric. C. Eboh, Executive Director (Member of Coordinating Team) African Institute for Applied
ii. Call No. ATPS-CP-0500/10) -Building the capacity of Africa's women in climate			Enugu State, NIGERIA Email : eceboh@yahoo.com
change adaptation and impacts mitigation, and resilience building through science, technology and innovation			Dr. George Essegbey (Member of Coordinating Team) Former National Chapter Coordinator, ATPS Ghana, and Member ATPS National Chapter's Regional Council, West Africa, and the ATPS International STI Council. GHANA E-mail: george_essegbey@yahoo.co.uk
(c) ATPS & Green Drinks Nairobi - Launch the World Science Cafe on Climate Change in Africa		Mr. Philip Osano, ATPS Research Officer (part time), McGill university, Canada E-mail: Philip.osano@mcgill.ca In liaison with Ms. Wairimu Mwangi, Research Officer, ATPS. E-mail: wmwangi@atpsnet.org	

ACIENCE FUNCS and recurring area responsibility			
African Manifesto for STI	Dr. Kevin C. Urama Executive Director E-mail: kurama@atpsnet. org		
Management of Environmental Infrastructure	ure		
1. International Resource Panel Working Group on Sustainable Water Management, 2009 - 2011	Dr. Kevin C. Urama, Executive Director, ATPS. E-mail: kurama@atpsnet.org	Ms. Wairimu Mwangi, wmwangi@atpsnet.org, in liaison with Dr. Nicholas Ozor, ATPS Post- Doctoral Researcher, E-mail: nozor@atpsnet.org	Invited by UNEP to join the Panel and Chair the Working Group.
Youth and Gender Empowerment			
AYFST Program: 1. Youth Innovation Challenge (Y I CAN) program 2. Youth Internships & Post Doctoral Placements 3. Youth Congress. etc	Dr. Kevin C. Urama, Executive Director, ATPS. E-mail: kurama@atpsnet.org	Mr. Marsden Momanyi, Communications & Outreach Officer, ATPS E-mail: mmomanyi@atpsnet.org	Mr. Tennyson M Magombo, Chair Agro Enterprise Development Specialist, African Institute of Corporate Citizenship, Lilongwe, Malawi E-mail: tennysonmagombo@yahoo.co.uk Mr. Festus Amadu, Vice-Chair Lecturer in Agricultural Economics Njala University, Freetown, Sierra Leone Email: famadu2002@yahoo.co.uk Festusamadu01@yahoo.co.uk Ms. Phina Magara, Secretany Nairobi, Kenya Email: phinamagara@yahoo.co.uk

### Annex 12: List of Ongoing Implementation Programs and Programs Coordinators

PROGRAM TITLE AND REFERENCE CODE AND DURATION	PROGRAM DIRECTOR	SECRETARIAT	EXTERNAL PROGRAM COORDINATORS
African Women Forum for Science and Technology (AWFST) programs: 1. Women Innovation Challenge (WE CAN) program 2. Women Internships & Post Doctoral Placements 3. Women Congress. etc		Ms Wairimu Mwangi, Research Officer wmwangi@atpsnet.org	Prof. Agnes W. Mwang'ombe, Chair Principal, College of Agriculture & Veterinary Sciences, University of Nairobi, Kenya Email: Mwangombe@kenyaweb.com Prof. Norah K. Olembo, Co-Chair Executive Director African Biotechnology Stakeholders Forum (ABSF), KENYA Email: nolembo@absfafrica.org
Emerging Technologies & Policy Options, Socialization & Advocacy	ocialization & Advocacy		
Science Ethics and Technological Responsibility for Developing and Emerging Countries (SET-DEV) – (2008 – 2011)	Dr. Kevin C. Urama, Executive Director, E-mail: kurama@atpsnet.org		Mr. Alfonso Alfonsi Consultant , Laboratorio di Scienze della Cittadinanza (LSC). Rome, ITALY Email: alfonsi_alf@yahoo.it
Nanotechnologies for Development in India, Kenya and the Netherlands: Towards a Framework for Democratic Governance of Risks in Developing Countries (2010 – 2014)			Prof. Wiebe Bijker, University of Maas- tricht, The Netherlands E-mail: w.bijker@maastrichtuniversity.nl Dr. E. Haribabu, Professor of Sociol- ogy University of Hyderabad, INDIA E-mail: or hari_ejna@yahoo.com
Global Development Paradigms (STI in the New Green Economy Initiative)	New Green Economy Initia	tive)	
The State of STI in Africa, UNESCO Global Science Report, 2010	Dr. Kevin C. Urama, Executive Director E-mail: kurama@atpsnet.org	Dr. Nicholas Ozor, Researcher, Post-Doctoral, ATPS E-mail: nozor@atpsnet.org	

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