



African Technology Policy Studies Network Annual Report 2009

Science, Technology and Innovations
for African Development



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“Building Africa’s Science,
Technology and Innovations (STI)
Capacity Today for Sustainable
African Development Tomorrow”



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Above: Ng’ethu Water Treatment Plant, Kenya (Photo by Marsden Momanyi)



List of Acronyms:

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



Board of Directors:



Prof Sam Wangwe
(Chairman)



Prof Turner Issoun



Prof Oliver Saasa



Prof Sir Brian Heap



Prof Oyebanji Oyeyinka



Mayor Noël
Akossi Bendjo



Prof Agnes Mwang'ombe



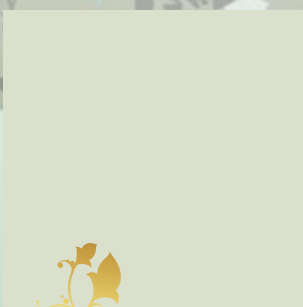
Prof. Shaukat Ali
Abdulrazak



Prof Indira Nath



Dr Kevin Urama
Ex Officio Member



Vision

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.

Mission

To improve the quality of science, technology and innovation systems 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.

Overall Goal

To develop Africa's STI capacity (knowledge basis and infrastructure, knowledge conditions and policies) today for sustainable African development tomorrow.

A section of delegates during the Parliamentarians Sensitization Workshop, which the ATPS coordinated together with key partners in October 8-9, 2009 in Mombasa, Kenya



The year in Review

Science, Technology and Innovations
for African Development



***Wikimedia Commons:** Natural papyrus plants growing in the Ugandan wetlands, picture taken in Kabarole district*

The Chairman's Message



As I begin my second year as Chair, it gives me great pleasure to introduce the ATPS Annual Report for the year 2009. The role of the ATPS as an emerging centre of excellence in Science Technology and Innovation (STI)

policy received a major boost in 2009 through the sustained and active engagement with policy makers leading to significant policy impacts in Africa.

Scientists rarely venture into the policy angles of STI. Similarly, it is only in the last decade, that economists have begun to engage in STI policies. As a result, much of the new industrial organization theory is concerned with the world of STI. I believe that it is only by bringing these and other key actors together into the realm of practice that we begin to realize the full potential of STI policy in social and economic development in Africa.

ATPS specializes in bringing together policy makers, science experts, the private sector actors and the civil society in a bid to build their capacities to deploy STI for development in Africa. We refer to this model as the Quadruple Helix (*Urama 2009*).

One of ATPS's key achievements during the year was: The launch of the National Systems of Innovation (NSI) Steering Committee in Nigeria – an inter Ministerial and inter-agency committee to steer the coordination of the STI related activities of the relevant Ministries and foster innovation through collaboration. The Committee is chaired by the Executive Director of ATPS and co-chaired by the Director General of Nigeria's Office for Technology Acquisition and Promotion (NOTAP) and the Executive Secretary of Nigeria's University Commission (NUC). Its membership is drawn from core STI related Ministries and University Vice Chancellors

and Professors; its secretariat is housed at the Raw Materials Research and Development Council (RMRDC) under the auspices of the Ministry of Science and Technology, Federal Republic of Nigeria. Talks are ongoing to upscale this model for coordination of STI activities in other countries, including Swaziland, Kenya, Ghana, etc.

Another notable policy impact during the year was the coordination of partners including: the United Nations Environment Programme (UNEP); IGAD Climate Prediction and Applications Centre (ICPAC); the IDRC and DFID through the Climate Change Adaptation for Africa (CCAA) programme to sensitize parliamentary committees of the Republic of Kenya on climate change adaptation issues in preparation for the CoP 15 and towards the development of Kenya's response strategy and Climate Change Policy.

The ATPS's continued engagement with the ECO Show hosted by Kenya Broadcasting Corporation (KBC) is also a significant grassroots empowerment and knowledge brokerage activity that was initiated during the year. The year also saw the ATPS strengthen its partnerships with state institutions in Africa including: NEPAD, AAU, AIAE, NEPAD, PanAAC, British Council-Kenya, RUFORUM, FARA, relevant STI ministries in member countries, etc.

ATPS also supported two regional study grants and 21 grants to undertake research and other activities in the national chapters, and offered core support to six national chapters in eastern and southern Africa during the year. In addition, six consultancy grants were awarded to various members in the different member countries.

Other significant achievements during the year include: The successful launch of the Youth Innovation Challenge (Y I CAN) program; The Women Innovation Challenge (WE CAN) program; The Inaugural AWFST Interim Steering Committee; The election of the Steering Committee for the AWFST after the end of the inaugural steering committee's term; and the successful



completion of two thematic research programs, including the ATPS Water and Environment program, 2004 – 2008; the ATPS Health Technology Program, 2005 – 2008; and the launch of ATPS Phase VI Strategic Plan implementation programs, which include the programs on Intellectual Property Rights, 2009 – 2012; Climate Change Adaptation and Resilience Capacity Building; Agricultural Innovations; Nanotechnologies for Development, etc.

The period also saw the ATPS Secretariat consolidate its staff base with five professional grade staff with international experience joining the team; and consolidate the ATPS Board with two new members, the rotation of two old members including the former Chair, the election of a new Board Chair and the formation of relevant Board Committees. Three other members have been appointed to the ATPS Board commencing January 2010.

The period also saw the establishment of a Regional Council of national chapter coordinators to oversee the activities of the ATPS in the Western, Southern, Eastern and Francophone regions; and the establishment of the International STI Advisory Council to provide independent review of ATPS activities and policy impacts. ATPS also intensified its policy advocacy and STI communication through media presence on print and TV channels. Finally, the geographic reach and impact of ATPS also

grew significantly within the continent, with expressions of interest to establish new chapters received from five countries, including Egypt, Madagascar, Mauritius, Tunisia, and Rwanda.

The changes within the ATPS Board and the reinforcement of the secretariat staff base have no doubt continued to position ATPS at a vantage point in achieving the tasks ahead; building the STI capacity of African countries under the increasing global challenges of climate change, global recession and poverty.

In 2010, ATPS will continue to intensify its STI capacity building activities for sustainable development in Africa. Emphasis will be placed on improving access, sharing and up scaling of knowledge, technologies and innovations for development in the continent. My vision for ATPS is a transformed formidable STI policy network and a leading centre of excellence and reference in the area of STI policy and particularly in bringing STI to the centre of the development process in Africa.

Prof Sam Wangwe,
Chairman, ATPS Board of Directors



Executive Director's Message



This report presents a summary of the Science, Technology and Innovation (STI) capacity building activities of ATPS for the period 01 January 2009 to 31 December 2009. In line with its vision, ATPS has continued to act as an STI knowledge broker amongst key actors from the quadruple

helix (experts in academic institutions and other knowledge communities, policy makers, the private sector actors and the civil society) in the continent to deliberate on and prioritize Africa's response to global challenges.

Through the STI capacity building activities carried out in the year 2009, the ATPS network members and stakeholders had the opportunity to share their experiences and knowledge whilst raising Africa's perspectives on STI capacity development needs (knowledge basis and infrastructure; knowledge circulation and networks; knowledge conditions and policies) to ensure effective valorization of science and technology into innovations for African development. This report is organized under the topics of thematic and non-thematic (facilitative) priorities of the ATPS Phase VI Strategic Plan, 2008 – 2012. These include:

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

The report also presents a brief summary of the continued governance reforms undertaken by ATPS to strengthen its capacity to achieve the strategic objectives of its Phase VI Strategic Plan, 2008 – 2012.

The ATPS launched several new thematic and facilitative programs in 2009. They include: The Climate Sense Program (CSP); the Women Innovation Challenge (WE CAN) Program and an interim steering committee for the Phase VI program - African Women Forum for Science and Technology (AWFST); The Youth Innovation Challenge (Y I CAN) Program under the auspices of

the ATPS African Youth Forum for Science and Technology (AYFST); a new regional program on Strengthening National Intellectual Property Rights Policy and Legal Frameworks in Eastern and Southern Africa - Traditional knowledge (TK) Access and benefit Sharing for effective IP systems; Agricultural Innovations for Climate Change Adaptation; Indigenous and Emerging Technologies for Climate Change Adaptation, etc.

A number of small grants and regional studies on selected STI policy priorities of member country chapters were also commissioned during the period. These include: two regional grants on Agricultural Innovations for Climate Change Adaptation; ten small grants case studies on Indigenous and Emerging Technologies for Climate Change Adaptation; and four national case studies on intellectual property rights. In 2009, the ATPS strengthened her role as a knowledge broker and policy advocate on several subjects, providing training and policy support services to several stakeholders including Parliamentarians, and heads of relevant State institutions, researchers and university networks, as well as private sector networks in the continent.

Notable amongst the training and policy support services provided in 2009, are a sensitisation workshop for Parliamentarians of the Republic of Kenya and the training of relevant ministries and state agencies in the Federal Republic of Nigeria, leading to the launch of the National System of Innovation (NSI) Steering Committee to foster innovation through inter-ministerial and inter-agency collaboration in the Federal Republic of Nigeria. These activities were amongst the strategic policy engagements of the ATPS in 2009 with significant impacts on policy direction on the related subjects. ATPS also forged strategic partnerships with several state institutions and international organisations with global mandates in STI related subjects including, the United Nations Environment Program (UNEP), UNESCO, British Council (BC), World Wide Fund for Nature (WWF-EARPO), and other key national state institutions such as National Councils for S&T; University Commissions; regional University Networks and Private Sector Networks. Most of these partnerships are guided by Memorandums of Understanding (MoUs) and have enhanced ATPS's capacity for effective knowledge brokerage, knowledge valorisation and policy advocacy both in Africa and globally.

The period also saw the ATPS expand its donor base with ten grants received during the period from previ-



ous and new donor partners. In addition to the support towards the implementation of the ATPS Phase VI Plan received from the Directorate-General for International Cooperation (DGIS) of the Royal Dutch Government in April, 2009; the Rockefeller Foundation, Wellcome Trust, the Federal Republic of Nigeria, the United Nations Environment Program, and UNESCO are amongst key supporters of ATPS activities during the year.

Through the support of donor partners, ATPS was able to implement most of its planned STI capacity building activities during the period. The period saw the demand for ATPS's STI capacity building and knowledge-sharing activities expand both in terms of scale and geographic coverage as African countries strove to respond to the triple challenges of the global financial crisis, global poverty and global climate change. Therefore, much remains to be done in 2010 and onwards as demand increases and bilateral interests on the continent by developed and emerging economies such as China and India grows. ATPS therefore welcomes more support from the long-standing international partners and other partners who have an interest in "building Africa's STI capacity today for sustainable development tomorrow".

STI is much needed now, more than ever. The triple challenges of climate change, global financial crisis and persistent global poverty are interlinked and mutually exacerbating. It is time that we act collectively and do things differently to address this elusive challenge. The shape and form of the "goal post for sustainable development" is ever changing. We can no longer pride ourselves in specialization and division of labour which shaped disciplinary research over the past decades, or even pretend that good science alone can achieve development. The increase in the number of Nobel Prize awards in Economics and the proliferation of Wall Street Experts in globalization and free market principles could not prevent the global financial crisis, neither has the proliferation of special science expertise in poverty alleviation reduced the population of world citizens living in absolute poverty, especially in Africa. While good science and disciplinary specialization remain important for in-depth understanding of phenomena, and in fact, are indispensable in evidence based policy-making, the systemic and dynamic nature of the challenges we face means that trans-disciplinary approaches, systems thinking and innovation must be taken more seriously than before. Recent work by the ATPS and European

and Indian partners on socialization of science and technology in Africa, Europe and India points to evidence that *"Innovation does not happen in the mainstream but through the interaction amongst key actors in the innovation system, including policy-makers, science experts, private sector actors and the civil society (including rural communities)*". We have branded this relationship as the "quadruple helix" and the DNA for development.



Fig. 1: Quadruple Helix (Urama 2009)

"Multi-lateral collaboration breeds innovation, while binomial relationships lead to knowledge dependence".

The period also saw the consolidation and strengthening of the ATPS secretariat staff base and the rotation/renewal and strengthening of ATPS's Board. Prof Samuel Wangwe took over as the Chair of the Board and new Board Committees were formed. New board members representing relevant state institutions, the academia and the private sector were also appointed.

Finally, I want to express my deepest appreciation to the ATPS Board, ATPS secretariat staff, National Coordinators, the network membership, our donors and all our stakeholders for all their efforts. We look forward to receiving your continued support in 2010.

Kevin Urama Ph.D.
Executive Director



The 2009 ATPS Annual Conference and Workshop

Science, Technology and Innovations
for African Development



A mangrove swamp in Mombasa, Kenya (Photo by Joshua Wanyama)

The 2009 ATPS Annual Conference and Workshop:



Participants at the ATPS Annual Conference held from 24-28 November in Abuja, Nigeria

Africa's response to Global Challenges through Science, Technology and Innovation

The ATPS hosted its 2009 Annual Conference and Workshop on "Africa's response to Global Challenges through Science, Technology and Innovation" from 24 - 27 November 2009 in Abuja, Nigeria.

The aim of the conference was to identify and prioritize strategies for African countries to respond to the triple global challenges of poverty, climate change and global financial crisis through STI. It sought to address these challenges in an integrated systems approach exploring the linkages and feedbacks between climate change effects on water and energy resources on global poverty through biodiversity loss and land degradation and vice versa. The conference brought together about 148 participants drawn globally (including key African experts, researchers, policy makers and potential donors) to brainstorm on the theme and to identify and prioritize STI relevant research, capacity building and policy needs of the continent in the coming decade.

The conference took the format of two-day plenary session where experts delivered key note addresses focusing on the thematic areas. There were also facilitated breakout sessions to map out Africa's responses to (i)

the global financial crisis; (ii) global poverty; and (iii) climate change after the plenary session have exhausted the potential linkages and feedbacks in the system and from the perspectives of the role of STI only. In addition, the conference also examined cross cutting issues that underpin Africa's response to these challenges, including: (iv) intellectual property rights (IPRs) and knowledge appropriation strategies; (v) socialization of science and technological research and innovation policy in Africa.

The UNEP, UN HABITAT, World Bank STEP-B Project, Raw Materials Research and Development Council (RMRDC) of Nigeria, African Institute for Applied Economics (AIAE); African Development Solutions International (ADSI), the National Universities Commission (NUC) and the Federal Republic of Nigeria are amongst the key stakeholders who partnered with the ATPS to host the event.

Conference and Workshop Rationale

ATPS and its partners believe that the triple global challenges: poverty, climate change, and global financial crisis are mutually exacerbating the socio-economic status of citizens of developing countries. An ad hoc response to any of these challenges, and



isolated approach would severely constrain efforts of governments and donor partners alike leading to achievement of limited and unsustainable results. The conference therefore addressed these triple challenges in an integrated systems approach exploring the linkages and feedbacks between climate change effects on water and energy resources on global poverty through biodiversity loss and land degradation and vice versa.

It explored the causes and consequences of the global financial crisis from a systems perspective exploring its root causes in constrained economic tools and incentive structure which moved attention away from scientific and technological capacity to innovative financial products and services. The inequitable distribution of returns on investments, unfair competition and unequal trade relationships between countries have inevitably led to systemic distrust within the global economic system. While this behavior is fundamentally situated within the framework of rational economic thought, the breakdown of trust amongst the economic actors has led to the crisis where demand and supply functions become volatile and difficult to predict.

Conference and Workshop Objectives

The conference was guided by the following strategic objectives:

1. To apprise African Policy-makers, Science Experts, Private Sector Actors, and Civil Society of the nexus between climate change, global financial crisis and poverty alleviation;
2. To equip African Policy-makers, Science Experts, Private Sector Actors, and Civil Society with the necessary skills for the formulation and implementation of an integrated ST&I policy responses to the triple challenges, and better understanding of the economic and social implications of no action.
3. To inform strategic response research and policy agenda for the ATPS and its partner institutions and map out short term response actions at national, regional and continental levels.
4. To equip delegates with the necessary information for active participation in strategic global dialogues on relevant STI policy issues such as climate change, and other response strategies, etc.
5. To popularize the concepts of socialization of Scientific and Technological Research (STR) in Africa and launch the manifesto for African Science, Technology and Innovation for Africa, by Africans, in Africa;
6. To popularize the need for building Responsible National



*Keynote speakers at the ATPS Annual Conference. **From right:** Prof. Julius Okojie (Executive Secretary, NUC), Prof. A.P. Omwualu (DG RMRDC, Nigeria), Prof. Turner T. Isoun (former Minister for Science and Technology, Nigeria and ATPS Board Member), Dr. Mahama Ouedraogo (AU Nigeria) and Prof. Norah Olembo (former ATPS Chair).*

Systems of Innovation as bedrocks for development in African countries;

7. To initiate process towards building framework for an innovation through enhancing intellectual property rights and knowledge appropriation strategies in Africa;
8. To inform strategic inter-ministerial, trans-disciplinary, inter-sectoral, and international collaboration and knowledge sharing in addressing these challenges.
9. To launch the following ongoing response activities by the ATPS and its partners, including:
 - i. The ATPS/UNEP Climate Sense Programme (CSP)
 - ii. The process towards an African Manifesto for STI in Africa for Africa by Africans
 - iii. The ATPS/AIAE More Than GDP Initiative for Africa
 - iv. The ATPS Biennial report on the State of ST&I in Africa

Conference and Workshop Outputs

Specific outputs from the conference include:

1. Improved awareness and understanding of the linkages between climate change, global financial crisis and poverty and environmental degradation in developing countries, and especially African economies.
2. Evidence based knowledge and skills for informed response strategies and policies for responding to climate change adaptation, the global financial crisis and poverty in African countries.
3. Better understanding of the concepts and need for Socialization of STR; responsible innovation and National Systems of Innovation as bedrocks for national development and response to global challenges.
- iv. The successful launch and start of implementation



of the ATPS facilitated Climate Sense Program (CSP); the National System of Innovation Steering Committee for the Federal Republic of Nigeria; and the process towards development of the African Manifesto for STI launched.

- v. A peer reviewed conference proceedings published as a book (in press).

ATPS National Coordinators'/Secretariat Meeting

The ATPS national coordinators and ATPS Secretariat representatives met on 27 November during the 2009 ATPS Annual

Conference and Workshop. Other programmes launched during the conference include: The Process towards an African Manifesto for STI in Africa for Africa by Africans; The ATPS/AIAE More than GDP Initiative for Africa; and The ATPS Biennial Report on the State of STI in Africa.

ATPS Annual General Meeting

The 2009 ATPS Annual General Meeting was held on 26 November as part of the agenda at the 2009 ATPS Annual Conference and Workshop. This forum brought together ATPS members to discuss strategies on how to improve the Network



National Chapter Coordinators' Meeting held on 26 November in Abuja, Nigeria

Conference and Workshop to review ATPS programs, technical and financial accounts for the year, work plans and budgets for 2010. This was a forum for sharing ideas on fundraising strategies for the National Chapters and how they can be actively engaged in capacity building initiatives with the ATPS Phase VI Strategic Plan.

Launch of the ATPS Programmes

ATPS in collaboration with UNEP Global Adaptation Network for Africa (GAN) officially launched the ATPS Climate Sense Programme as part of the agenda at the 2009 ATPS Annual



A cross-section of ATPS members during the Annual General Meeting held on 27 November in Abuja, Nigeria

for it to achieve the objectives set out in the Phase VI Strategic Plan 2008-2012.

Participants at the meeting lauded ATPS for its continued passionate role in championing the importance of STI for Africa's sustainable development. Participants also welcomed the re-introduction of the competitive small grants initiative which offers an opportunity to researchers to conduct various types of STI-related research and make policy recommendations. This further buttresses the role of ATPS as a knowledge broker.

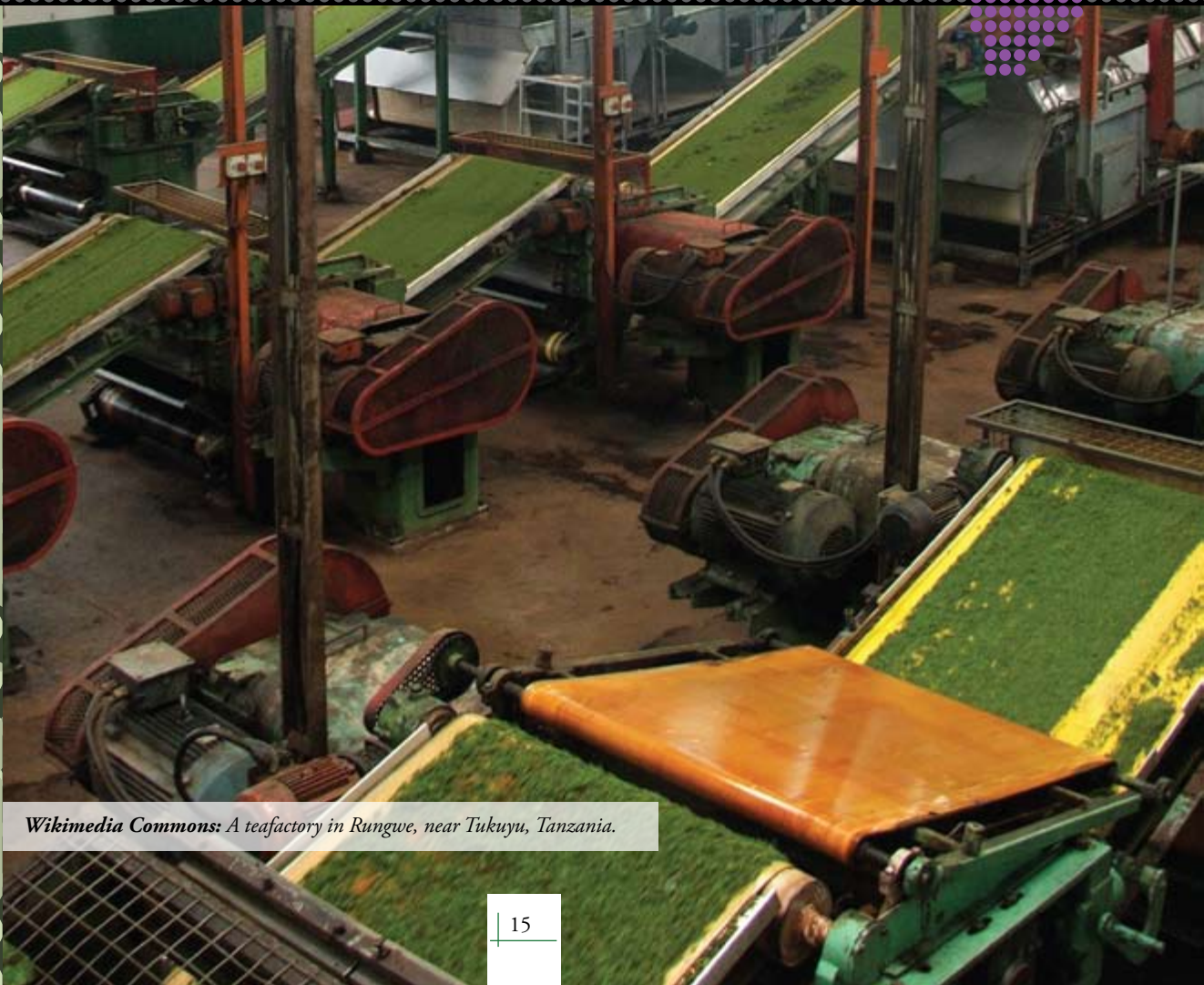
Research and Capacity Building



Delegates at the conference on “Building a National System of Innovation in Nigeria,” co-organised by ATPS, the Federal Ministry of Science and Technology (FMST) and Raw Materials Research and Development Council (RMRDC) held on 6 - 7 July in Abuja. From right; Dr. Alhassan Bako Zaku, Hon. Minister Federal Ministry of Science and Technology, Prof. Banji Oyelaran-Oyeyinka, ATPS Board Member and Director, Monitoring and Research Division (UN-HABITAT), Dr. Kevin C. Urama, (Executive Director ATPS) and Prof Turner Issoun (Former Minister for Science and Technology, Nigeria and serving ATPS Board Member)



Science, Technology and Innovations for African Development



Wikimedia Commons: A tea factory in Rungwe, near Tukuyu, Tanzania.

Research and Capacity Building



Participants at a SET-DEV Capacity Building workshop organized by the ATPS from July 14 - 17, 2009 in Mombasa, Kenya

All ATPS programs address STI capacity building priorities of African countries identified by network members and stakeholders. The ATPS thematic research programs specifically focus on STI capacity development (knowledge generation and knowledge circulation, knowledge basis and infrastructure, knowledge circulation and networks, knowledge conditions and policies) for sustainable development in Africa.

The key concern of the ATPS Research and Capacity Building Programs is therefore to close the loop through generation and valorization of new knowledge in areas where there are obvious STI policy gaps, through training, outreach, knowledge brokerage, dissemination and advocacy in key thematic areas identified by members and stakeholders.

Notable achievements under the auspices of the ATPS STI capacity building programs during the reporting period include:

Water and Environmental Sustainability (ATPS-WESP), 2004 – 2008

The period saw the successful completion and final technical and financial reporting and external auditing of the ATPS thematic program on Water and Environmental Sustainability (ATPS-WESP), 2004 – 2008. The main objective of the program was to enhance the generation, use and communication of knowledge in driving environmentally sustainable use of water resources in Africa.

The main purpose of the programme is to contribute to increasing knowledge of on the use of technology for sustainable management and conservation of water and empower stakeholders at the grassroots by enhancing knowledge of benefits of good water management, sanitation and environmental conservation. The programme targeted policy makers, government officials and planners, research communities, NGOs and rural communities and relevant international partners.

The program supported 9 small grants case studies on various issues in 9 countries (namely, Benin, Cote d'Ivoire, Ethiopia, Ghana Kenya, Lesotho, Malawi,



Nigeria and Uganda); five (5) regional baseline studies in 5 countries (Cameroon, Ethiopia, Ghana, Kenya and Nigeria); and three (3) regional policy review studies covering all countries of the great lakes/the horn of Africa, SADC and ECOWAS countries. Program activities were completed in 2008 and the technical and financial reports were successfully completed and reviewed favourably by Donors and External auditors, hence marking the successful completion of the program in 2009. The program which produced over 60 publications in various media was co-ordinated by Dr. Kevin Urama. A full copy of the final technical report is available at the ATPS Secretariat. More details on the ATPS-WESP can be found at <http://www.atpsnet.org/prog/water.html>.

Strengthening Health Technology Policy in Africa (ATPS-HTP), 2005 – 2008

The ATPS successfully completed a thematic program on Strengthening Health Technology Policy in Africa (ATPS-HTP), 2005 – 2008 (ACTIVITY No. 12210-DCO0047943) in 2009. The main objective of the program was to improve health care access and delivery in Africa by improving the quality of S&T policy through the generation and dissemination of contextually relevant knowledge on national health innovation systems.

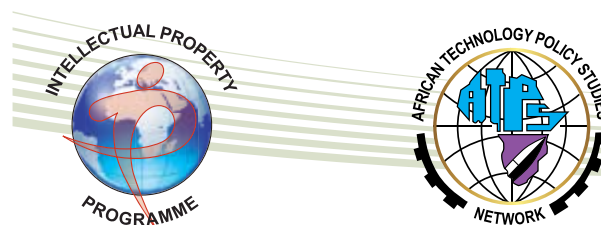
The program aimed at contributing to increasing knowledge on acquisition and use of technologies for efficient management of health care systems, to improve national, regional and global policies on health; and empowering local communities and other actors in the system by providing new knowledge, and build capacities to optimally deliver and access health services. The program produced technical reports and 9 publications.

The program activities were completed in 2008 but the technical and financial reports were successfully completed and reviewed by Donors and External auditors in 2009. The program was coordinated by Prof. Oyebanji Oyeyinka and Dr. Padmashree Gehl Sampath, both of UNU-Merit at the time. Outstanding publications on the ATPS-HTP program are ongoing. More details on the ATPS-HTP can be found at <http://www.atpsnet.org/prog/health.html>

Strengthening National Intellectual Property (IP) Policy and legal framework in Eastern and Southern Africa: Traditional Knowledge Access and Benefit Sharing and Effective IP Systems, (ATPS/BTA – IP program) 2009 – 2012

In 2009, ATPS launched a new thematic research program on: “Strengthening National IP Policy and legal framework in Eastern and Southern Africa: Traditional Knowledge (TK) Access and Benefit Sharing (ABS) and Effective IP Systems, (ATPS/

BTA – IP program) 2009 – 2012”. The aim of the project is to improve policy and legal framework for TK ABS and effective IP systems in Eastern and Southern Africa. The activities carried out under the IP program in 2009 are presented in accordance with the proposed activities in the approved proposal below:



A Regional Workshop & Launching of the IP program, 01 – 02 April 2009, Hilton Hotels, Nairobi, Kenya

The IP program was launched at a workshop hosted at the Hilton Hotel, Nairobi, Kenya on 01 – 02 April 2009. The workshop was attended by 32 delegates from 15 countries, including members of the ATPS Board, National Chapter Coordinators of the ATPS and a delegate from Biotechnology Trust Africa, and selected Stakeholders. This first workshop marked the launch of the IP program. Mr. Joseph Wekundah, the IP Program Coordinator and Dr. Kevin Urama, the IP Program Director, introduced all the delegates to the program objectives, structures and required deliverables and policy outcomes. The delegates interrogated the program and identified the need to expand the program to other countries in Western Africa and the Francophone countries.

Establishment of Regional Steering Committees

The program has established a Regional Steering Committee (RSC) to oversee the IP program implementation at the regional scale. Twelve renowned IP Experts from relevant institutions were identified and invited to serve on the Regional Steering Committee (RSC) to spearhead the effective running of the regional network on IP comprising the IP National Steering Committee (NSC) formed by the program, IP researchers and members of the ATPS National chapters in the IP implementing countries; as well as relevant national and regional IP offices and relevant Ministries to be recruited throughout the program implementation process.

Eleven experts, representing key institutions including the African Union (AU), Wageningen University (WU), the Netherlands; African Regional Intellectual Property Organization (ARIPO); Kenya Industrial Property Institute (KIPI); Central Advisory Service on Intellectual Property (CAS-IP) which is a Consultative Group on International Agricultural Research (CGIAR) system unit hosted by Bioversity International, Common



Market for Eastern and Southern Africa (COMESA), the ATPS, Biotechnology Trust Africa (BTA); Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA), African Biotechnology Stakeholders Forum (ABSF), and Cambridge University, UK have been confirmed as members of the RSC for the IP program.

The RSC 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 first regional network workshop is planned during the first /second quarter of 2010.

Establishment of National Steering Committees

The program established five-person national steering committees (NSCs) in Uganda, Malawi, Swaziland, Kenya, Lesotho and Tanzania during the reporting period (see Annex 4). 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). The NSCs have since been running and networking with relevant institutions in their respective countries. The processes of establishing



*ATPS National Chapter Coordinators from all the IP Program Implementing countries during a meeting which was held on September 28 at the ATPS offices; **Clockwise from right:** Dr. Kevin Urama (ATPS Executive Director), Dr. Alaba Omuyiwa (ATPS Senior Research Officer), Ms. Wairimu Mwangi (ATPS Research Officer), Ms. Bitrina D. Diyamett (ATPS Tanzania National Chapter Coordinator), Prof. Francis B. Mwaura (Steering Committee, ATPS Kenya Chapter), Prof. Musa Dube (ATPS Swaziland National Chapter Coordinator), Prof. Henry Mloza-Banda (ATPS Malawi), Mr. John Okuongzi (ATPS Uganda Chapter Coordinator), Prof. Joseph Obua (outgoing ATPS Uganda Chapter Coordinator), Dr. Spirit Tlali (ATPS Lesotho Chapter Coordinator) and Mr. Joseph Wekundah (Executive Director BTA).*

NSCs in Ethiopia and 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.

Annual Networking and Information Sharing Conferences

The ATPS hosted a workshop for networking and information sharing during the reporting period. The first was held on 28 September 2009 at the ATPS Board Room, Nairobi Kenya. The event brought together 15 delegates from 6 countries to share knowledge on the state of IP policy environments and national background information on the IP institutions in the participating countries. ATPS and BTA jointly provided training for the delegates on the global IP, African IP environment, project management and specific management processes in the ATPS/BTA IP project to ensure effective implementation of the program. At the end of the meeting the national coordinators were equipped to implement the project and offer quality control services for country case studies. The event also saw the commissioning of the national coordinating centers by the ATPS to assist them in carrying out the implementation activities of the program as per the program proposal.

Six national coordinating centers (Kenya, Lesotho, Malawi, Mozambique, Swaziland and Uganda) signed contracts for the establishment of the IP national coordinating centers. The grants will support capital expenditure and National Steering Committee (NSC) meetings that relate to the IP program. In addition, the grant will support expenditure that relates to running the IP program by the national coordinating centres such as communication costs, local transport, printing and stationery, purchase of books and publications, internet connectivity and office rent as specified in the project proposal.

The ATPS and BTA have planned national workshops with these coordinating centers during the first quarter of 2010 to review progress, popularize the IP program and also recruit relevant state institutions into the implementation process.

Assessment of Current Regional IP Environment and Selected Countries

The ATPS commissioned Biotechnology Trust Africa (BTA), to conduct an assessment of the current regional IP environment and selected countries, including Lesotho, Malawi, Mozambique Swaziland, Uganda, Ethiopia, Tanzania and Kenya. The aim of the study is to provide an assessment of the current regional IP environment in the listed countries and come up with current status including existing IP instruments, international treaties signed up to and existing gaps on IP related concerns in Eastern and Southern Africa region (ESA). The study has been progress-



ing well. In liaison with the national steering committee and IP researchers in the selected countries, some draft assessment reports have been received but the consolidated detailed technical report is expected to be completed during the first quarter of 2010. Based on the assessments, ATPS and BTA is liaising with ATPS to draft policy briefs which will be published in 2010.

Detailed Assessments of IP Environments in Selected Countries

A call for proposals on Traditional Knowledge Systems and Increasing Access to Benefit Sharing of Intellectual Property in Africa was issued in September, 2009 (<http://www.atpsnet.org/docs/IP-2009.pdf>). The call elicited proposals from the eight countries participating in the IP program in Eastern and Southern Africa only. To enhance knowledge sharing and effective peer review, a proposal tournament was held in November 2009 where the national coordinators, international experts and the general membership of the ATPS and Stakeholders peer reviewed the proposals.

This process informed the selection of the proposals supported for implementation in the country chapters. The full participatory process that informed the proposal selection can be found at <http://www.atpsnet.org/about/news/2009/research%20funding.html>. Four country case studies have so far been commissioned in Malawi, Ethiopia, Kenya, and Tanzania. ATPS and BTA are continuing to work with these countries to build necessary capacity to implement the studies successfully and to achieve the required impacts. These country case studies are expected to be completed in September 2010.

Other Workshops and Policy Round Tables

The ATPS carried out an international workshop on Africa's Response to Global Challenges in November 2010 at Abuja Nigeria. The international conference which was co-hosted in collaboration with UNEP, UN-HABITAT, National Universities Commission (NUC), RMRDC of the Federal Ministry of Science and Technology (FMST), Nigeria, ADSI, AIAE, and World Bank Science and Technology Education Post-Basic (STEP B), had intellectual property rights as a core theme. In addition, there were separate breakout sessions focusing on the IP issues and program activities, proposal evaluation, etc. The decision to merge the IP program international workshop with the ATPS annual conference and workshop was to create awareness and integrate IP amongst the core policy responses to development challenges in Africa. A proceeding of conference and a book volume with dedicated book chapters on IP is expected to be published in 2010.

Publication of Maiden Book Volume on IP

The ATPS, in liaison with BTA, has launched a plan to produce

a maiden book volume on The State of Intellectual Property Rights, Access and Benefit Sharing in Africa and its implication for development. The edited book volume will have contributions from key experts in Africa, Europe and America and elsewhere, edited by the ATPS and the Biotechnology Trust Africa (BTA). The key expert contributors to the book volume have been identified and invited to submit their manuscripts accordingly. Some of the received manuscripts were presented at the international conference held in November 2009, Abuja, Nigeria and are currently undergoing peer review. The book volume is expected to be completed in 2010/11.

Other program implementation activities such as the Training of Trainers (ToTs) were partly addressed in the training of the national Coordinating Centers. However, the program is still at an early implementation phase and hence other regional training activities, workshops, and research programs are planned for 2010 and subsequently. The intensity of program implementation activities is expected to progress more swiftly in 2010 and hence more outputs and policy impacts are expected during the year 2010 and beyond.

To ensure proper ownership and effective formation and functioning of the national coordinating centers, the ATPS Secretariat proactively engaged the ATPS national chapters in the project planning and national coordinating centers formation stages.

The first meeting was held in Nairobi on 02 April 2009 to introduce all national chapter coordinators to the program objectives, structures and required deliverables and policy outcomes. The event also marked the regional launching of the program. A follow up workshop was held on 28 September 2009 with all national chapter coordinators of the IP program implementing countries. The meeting reviewed and agreed on the modalities for operating the national implementing centers and the national coordination of the program; trained the national coordinators on the subject, and initiated the process for writing the maiden book volume on The State of Intellectual Property Rights, Access and Benefit Sharing in Africa and its implication for development.

The program is being coordinated by Dr. Olumuyiwa Alaba, ATPS Senior Research Officer and Mr. Joseph Wekundah, Executive Director, BTA, and directed by Dr. Kevin Urama, Executive Director, ATPS. More details on the IP program can be found at <http://www.atpsnet.org/prog/IP.html>.



Climate Sense Program (CSP), 2009 - 2012

During the year, the ATPS Secretariat launched a cross-cutting program on Climate Change: “Climate Sense Program (CSP)”. The program emerged as a follow up to the ATPS 2007 annual conference on STI and Climate Change adaptation in Africa, and the outcomes of the ATPS-WWF-ACTS joint inception project on Climate change adaptation in Africa, 2007 – 2008. Further consultations with key stakeholders revealed that there was lack of understanding of Climate Science, Climate Economics, Climate Politics, etc at all levels of the quadruple helix in Africa. With climate change now an issue of global politics and few stakeholders fully understand the complex science publications on impacts such as the IPCC reports, neither do they fully comprehend the direct economic effects of different response scenarios and the investment opportunities that climate change adaptation presents to developing economies.

The CSP was officially launched jointly by the ATPS and UNEP at the 2009 ATPS Annual Conference and Workshop held in Abuja, Nigeria from 24 – 27 November 2009. Under this initiative, the ATPS has awarded ten small grants on Indigenous and Emerging Technologies and Innovations for Climate Change Adaptation in Africa. These case studies are ongoing in Ghana, Lesotho, Malawi, Nigeria, Sierra Leone and Tanzania and will be completed in 2010. In addition to the grant from Directorate-General for International Cooperation (DGIS), the CSP program and its sister program on Agricultural Innovations for Climate Change Adaptation, has so far, received additional support from the Rockefeller Foundation. Also, the United Nations Environment Program.

UNEP officially confirmed partnership with the ATPS in the implementation of the CSP as a core activity of the Africa Adaptation Network which she facilitates. The CSP program is being coordinated by Dr. Kevin Urama, Executive Director, ATPS with core Resource Persons



from participating institutions, including Dr. Musonda Mumba (UNEP), Prof. Youba Sokona, Sahara and Sahel Observatory (OSS), Tunisia, amongst others. More details on the CSP program can be found at <http://www.atpsnet.org/prog/csp.html>.

Regional Research and Small Research Grants

The ATPS revived her competitive “STI Grants Tournaments and Grant Awards” during the period. Calls for proposals were made under her Phase VI Strategic Plan on the following sub-themes:

- i. Emerging and Indigenous Technologies for Climate Change Adaptation in Africa (<http://www.atpsnet.org/docs/Climate%20Change-2009.pdf>);
- ii. Agricultural Innovations for Climate Change Adaptation and Food Security in Africa (<http://www.atpsnet.org/docs/Agricultural%20Innovation%20-%202009.pdf>); and
- iii. Traditional Knowledge Systems & Increasing Access to benefit Sharing of Intellectual property in Africa (<http://www.atpsnet.org/docs/IP-2009.pdf>).

The ATPS Participatory Proposal Evaluation System (PPES) was also implemented whereby the wider membership of the ATPS and stakeholders were involved in peer review and short listing of STI research activities to be implemented in the national chapters. Pre-advice and peer review comments provided by an Independent International Expert Panel of Reviewers (IIEPR) and the respective ATPS National Chapter Coordinators informed the preliminary short listing of proposals for presentation at a tournament held on 26 November 2009 in Abuja, Nigeria. The tournament provided opportunities to prospective grantees to present their proposals for further review by the general assembly of the ATPS Network and the IIEPR. The ranking scores generated from the whole process led to final short-listing of proposals for potential funding which were then presented to the ATPS Board for consideration and approval. The participatory process has been adopted to ensure local relevance, scientific and innovation quality and policy relevance of the activities supported by the ATPS. For details on the grant selected process, see <http://www.atpsnet.org/about/news/2009/research%20funding.html> and <http://stepscentre-thecrossing.blogspot.com/2009/12/atps-promotes-full-stakeholder.html>.

Commissioned Projects

Following the successful proposal tournament in Abuja, Nigeria, a number of small grants and regional studies on selected STI policy priorities in ATPS member countries were commissioned these include: Two (2) regional grants on Agricultural Innovations for Climate Change Adaptation; Ten (10) small



Members of the Panel of Experts, the ATPS Network, the Board and other stakeholders at the proposal tournament in Abuja on 26 November, 2009

grants case studies on Indigenous and Emerging Technology for Climate Change Adaptation; and Four (4) national case studies on intellectual property rights. The commissioned projects have commenced since January 2010 and are progressing very well. In addition, contract negotiations for one regional grant project in Cameroun; two small grant proposals in Egypt and Lesotho are at final stages and will be issued shortly.

International Collaborative Research and Research Capacity Building/Partnerships

Under this program, the ATPS builds collaborations with like minded institutions in African and elsewhere to take forward joint programs for STI capacity building in Africa. This provides necessary platforms for the ATPS to fulfil her knowledge brokerage, knowledge circulation and knowledge networking functions. Among the activities implemented under this program in 2009 are:

Science Ethics and Technological Responsibility in Developing and Emerging Countries (SET-DEV) - Grant Agreement Number 217811

During the period ATPS continued implementation of the European Framework 7 funded INCO program on: "Science Ethics and Technological Responsibility in Developing and Emerging Countries" (SET-DEV). The project involves eleven (11) key partners in Africa, Europe

and India coordinated by the National Centre for Research (CNR), Italy. Other partners in this implementation activity are Laboratory for Citizenship Sciences – LSC, Italy; University of Maastricht, The Netherlands; Minerva Consulting and Communication SpA, Brussels; University of Central Lancashire – Lancashire Business School and Centre for Law, Information and Converging Technologies (CLICT), UK; Max Delbrueck Centre for Molecular Medicine, Germany; University of Hyderabad, Department of Sociology, School of Social Sciences; Lund University, Sweden; Centre for World Solidarity, India; Intermedia-NCG, Kenya. ATPS is leading the African partners in the implementation activities of this coordinated action project in liaison with partners from Europe and India. The main focus of the 3-year project is to:

- Strengthen the levels of information and awareness on critical scientific and technological issues by fostering a dialogue among scientists in Europe, India and Africa;
- Build institutional capacities and skill on science, ethics and socialisation of scientific and technological research in the context of a more general assumption of responsibilities in research processes
- Develop measures and guidelines which are sensitive to and compatible with local values and needs and to





the characteristics and degree of development of local research communities/systems;

- Define perspectives of socialization of science and technology that take into account local needs and at the same time compliant with EU standards and ethics.

The project will culminate in the 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 in India. The four 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. More details on the SETDEV program can be found at <http://www.set-dev.eu/> and on <http://www.atpsnet.org/prog/setdev.html>.



Dr Kevin Urama (Centre) with EU and Asian partners at a Nanotechnology stakeholders meeting in Hyderabad India. Others pictured above include: Prof Wiebe Bijker and Dr Ragna Zeiss, University of Maastricht; Dr. Shambu Prasad, Centre for World Solidarity (CSW), India and Dr E.Hari Babu, University of Hyderabad

Nanotechnologies for Development in India, Kenya and the Netherlands: Towards a Framework for Democratic Governance of Risks in Developing Countries, January 2010 – 2014

During the period ATPS and its partners won a grant for a new Integrated Program (IP) on “Nanotechnologies for Development in India, Kenya and the Netherlands: Towards a Framework for Democratic Governance of Risks in Developing Countries, January 2010 – 2014”, in liaison with partners in Europe and India. This program addresses the inevitable risks and benefits associated with emerging technologies, such as nanotechnology through a triangulation of PhD and



Participants from the nine successful teams in the first round with Welcome Trust staff during the September 14 inception workshop held in Nairobi, Kenya.

Post-Doctoral positions drawn from Africa (2), India (1) and the Netherlands (2) based at the University of Maastricht but address core areas of the nanotechnology governance in Africa, India and the Netherlands. The selection of PhD studentships and Post-Doctoral positions were carried out by the University of Maastricht following its own procedures and processes. ATPS commenced her research and facilitative roles in the project by January 2010. The project is led by Prof. Wiebe Bijker, University of Maastricht, The Netherlands, with the University of Hyderabad, India; and the ATPS as partners. For more details, see <http://www.atpsnet.org/prog/nanotech.html>.

Innovative Strategies to Enhance Capacity to Apply Research Evidence in Policy Making: An Inception Phase

ATPS also won an inception phase grant for a program on: “Innovative strategies to Enhance Capacity to apply Research Evidence in Policy making”. The inception program which is being funded by the Alliance for Health Policy and Systems Research World Health Organization (AHPSP) through the Wellcome Trust (UK) will be carried out in collaboration with the UK Parliamentary Office for Science and Technology (UKPOST) and International Network for the Availability of Scientific Publications (INSAP). An inception workshop with Wellcome Trust staff and all nine teams successful in the first round was held in Nairobi, Kenya from 14 – 16 September 2009. After the meeting, a proposal development meeting took place on 23 September 2009 in Kampala, Uganda. Development of the full proposal was concluded in November 2009. The ATPS is awaiting the outcome of the submission in 2010. The full proposal for the program is being coordinated by Dr. Sheila Ochugboju, Senior Communications Officer, ATPS, Directed by Dr. Kevin Urama, Executive Director, ATPS.



Linking Universities Business, and Research and Agricultural Innovation (UniBRAIN), 2010-2015



ATPS Hosts a delegation from Denmark - Prof. Henrik Hansen and Martin Magelund Rasmussen (Institute of Food and Resource Economics, University of Copenhagen), to discuss the new programme on "Linking university education, research and business in sustainable agriculture." Dr. Kevin Urama (Executive Director ATPS) chaired the meeting. Left: Dr. Ralph von Kauffman (FARA)

The ATPS in consortium with the Forum for Agricultural Research in Africa (FARA), African Network for Agro-forestry Education (ANAFE) and Pan African Agri-

Business Consortium (PANAAC) developed a program on "Linking University Education, Research and Business in Sustainable Agriculture. The US\$20,000,000 project is led by FARA with ANAFE, ATPS, and PanAAC and partners.

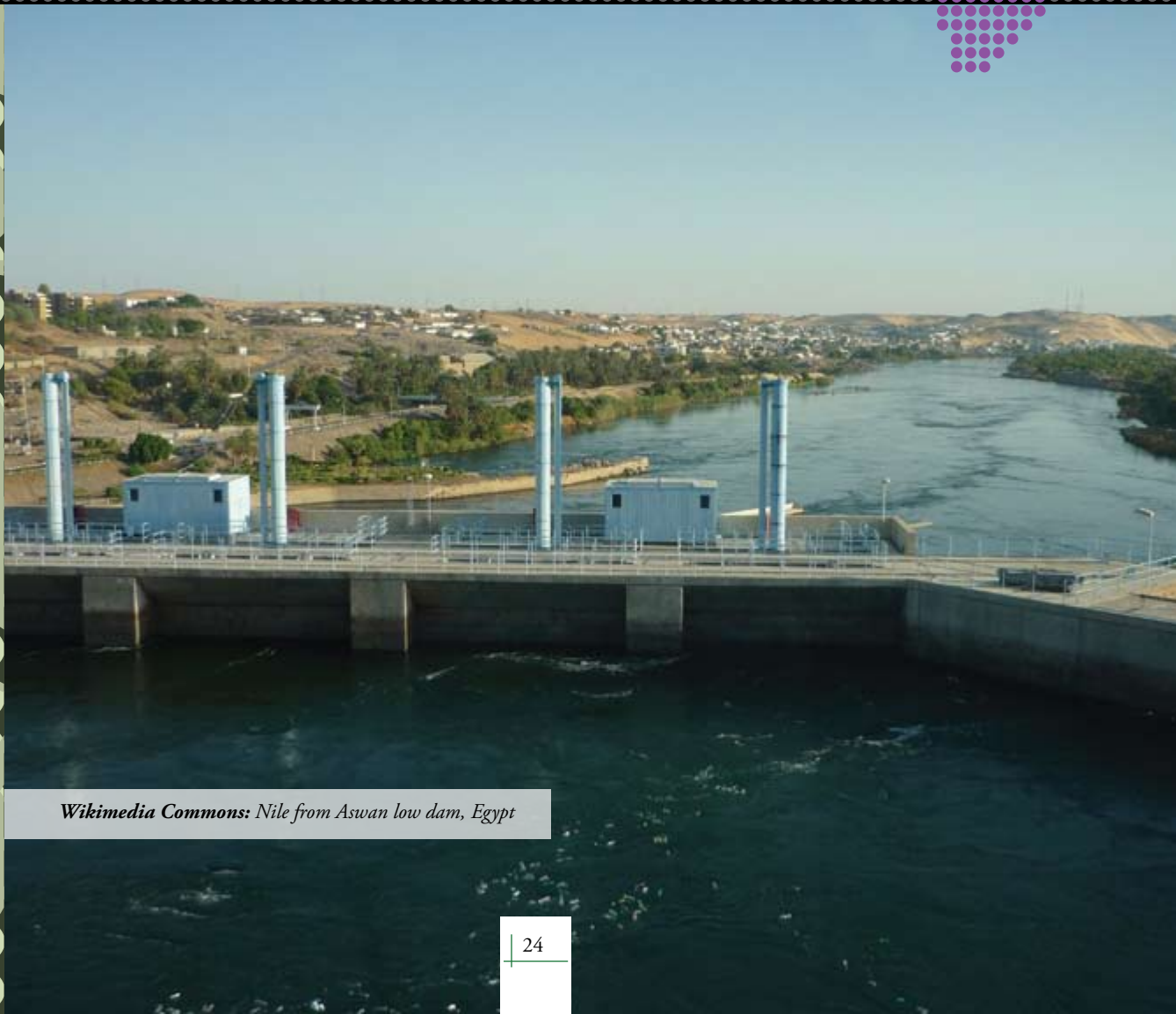
The program aims to promote innovation and produce graduates with entrepreneurial and business skills and research-based knowledge that is relevant to the development of African agriculture and agribusiness by seeking to improve teaching, learning and knowledge sharing in agriculture, agric-innovation and agri-business. UniBRAIN will address this by stepping away from the mainstream to bring African Universities into agricultural innovation through increased and strengthened collaboration between universities, research institutions and the private sector.

The proposal which was submitted to DANIDA in September 2009 has been approved for implementation over a four-year period. A contract has been signed by FARA on the behalf of the team, and implementation of the inception phase will commence in January 2010. More details on UniBRAIN can be found at <http://www.atpsnet.org/prog/urabi.html>.

Dr Kevin Urama, Executive Director - ATPS (left) and Prof Julius Okojie (Executive Secretary - National Universities Commission) at the signing of the MoU between the two organizations in Abuja, Nigeria

International Cooperation and Partnerships

Science, Technology and Innovations
for African Development



Wikimedia Commons: Nile from Aswan low dam, Egypt

International Cooperation and Partnerships

About the Program:

The ICP program aims to create a culture of networking, symbiotic collaboration and partnership amongst institutions and individuals working on similar STI subject areas across regions, cultures, languages, countries and continents. The ultimate goal is to move towards a more coordinated effort rather than the current uncoordinated and sometimes conflicting approach towards STI policy research and policy making in the continent.

This is built on the firm belief that effective cooperation and partnerships between institutions, regions and countries would lead to more cost effectiveness & greater policy impact. Each partner would bring comparative skills to projects and program initiatives and build synergies for greater and sustainable policy impacts.

The organization experienced significant consolidation of partnerships and cooperation between the ATPS and relevant STI institutions in Africa and globally during the review year. A number of collaborative projects were initiated and new memoranda of understanding were either initiated or signed during the reporting period. Some of these include:

Creating Platforms for Collaborations for STI Capability Building/Policy Making

MoU with the African Institute for Applied Economics (AIAE), Nigeria

This MoU identified areas of synergy and complementarities between the AIAE activities as an economic policy advisory institution and the ATPS. Details about the MoU and AIAE can be found at <http://www.atpsnet.org/about/news/2009/aiae%20mou.html>.



Dr Kevin Urama (Right) and Prof Eric Eboh at the signing of the MoU between AIAE and the ATPS

MoU between the ATPS and National University Commission (NUC), Nigeria

This MoU identified areas of complementarities and mutual interests between the NUC activities as a regulatory body for all the Universities in Nigeria (about 96 Universities) and the ATPS, providing a platform for ATPS to play active roles in advocacy for curriculum change to mainstream STI in Nigerian universities' curricula. Details on the MoU and NUC can be found at: <http://www.atpsnet.org/about/news/2009/nuc.html> and <http://www.widernet.org/nigeriaconsult/nuc.htm>.

MoU between the ATPS and Biotechnology Trust Africa (BTA)

ATPS and Biotechnology Trust Africa (BTA) are jointly implementing the program on Strengthening National IP Policy and Legal Frameworks in East and Southern Africa: Traditional Knowledge, Access and Benefit Sharing and Effective IP Systems (Phase 1) January 2009 – December 2012. The complementary nature of the tasks of ATPS and BTA in this project



Biotechnology Trust
Africa (BTA)



ATPS



ATPS National Chapter Coordinators at the official launch of the IP Program on April 2, 2009 in Nairobi, Kenya. The program is being coordinated as a partnership between ATPS and BTA



Dr. Kevin Urama, The ATPS Executive Director (Right) shakes hands with Patrick Wajero, The Director in charge of Programmes at British Council (Kenya) at the signing of the MOU.

and the mutual interest and commitment toward ensuring that national communities are empowered enough to influence the development of policies and legal frameworks for TK, ABS and effective IP Systems informed the collaboration. It is with this background that ATPS and BTA signed an MOU for the purpose of seeking mutually beneficial cooperation and collaboration towards the implementation of the IP program activities and any other agenda that both parties may deem fit to collaborate or cooperate for the successful implementation of this program. As per the MoU, ATPS secretariat has the main responsibility of coordinating and providing overall intellectual and administrative leadership and supervision as well as management of funds allocated to the program. More details on the MoU are available at <http://www.atpsnet.org/prog/IP.html>.

MoU between the ATPS and British Council - Kenya

Further to a key note presentation by Dr. Urama at the British Council conference on African knowledge Transfer Partnerships in February 2009 in Nairobi, Kenya, the British Council-Kenya expressed interest in working with the ATPS on some of its programs. This interest culminated in the signing of a MoU between ATPS and British Council-Kenya on 22 September 2009.

The MoU will see the two organizations work together on climate change programs. The two organizations recently signed an MOU which will provide a framework for long-term collaboration in capacity building and outreach for improved environmental and natural

resource management, sustainable utilization of natural resources and other environmental awareness initiatives for the socio-economic development of Kenya. It also serves to further strengthen the existing relations between the two organizations and assist the two organizations to achieve the overall objective by providing a framework for cooperation and participation in sustainable environmental and natural resource management through capacity building and outreach programs.

As per the MoU, both parties make commitment to cooperate and participate in the following jointly identified broad areas:

- i. Capacity building activities of relevance to both partners;
- ii. Joint development and implementation of relevant projects to both partners;
- iii. Knowledge and information exchange; and
- iv. Joint fundraising among others

Further details on the MoU can be found at <http://www.atpsnet.org/about/news/2009/atps-bc%20mou.html>.

MoU between ATPS and PanAAC

A draft MoU between ATPS and Pan African AgriBusiness Consortium (PanAAC) is has been established. 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. The MoU is at final stages of institutional reviews for signature. More details on the MoU are available at <http://www.atpsnet.org/prog/icp.html#panaac>.

Other New Partnerships

In addition to the above MoUs most of which led to tangible joint activities in 2009, the ATPS Secretariat has also strengthened partnership with the relevant STI and state institutions in Africa and globally. Notable amongst the institutional partnerships strengthened during the period includes: UNEP; UNHABITAT; UNESCO; the Association of African Universities, AAU; World Bank STEP B project in Nigeria; the African Union; FARA; ANAFE, RUFORUM; and relevant government ministries and state institutions and universities such as the Harvard University, USA; University of Palermo, Italy; University of Maastricht, Netherlands and University of Hyderabad, India, and private sector networks, etc.

Ongoing Collaborations and Institutional Networks

During this period, the ATPS has continued to build and strengthen partnerships and collaborations with and among key stakeholders in the implementation both in Africa and internationally. Some of the institutions that partnered 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), FMST, Nigeria; New Partnership for Africa's Development (NEPAD); Technical Centre for Agriculture (CTA); the Kenya National Council for Science of Technology (NCST); among many others.

These strengthened partnerships have led to significant increase in ATPS' role in knowledge brokerage, knowledge valorization and policy advocacy both in Africa and beyond. The ATPS has, for instance, played significant roles in the development of many interventions such as the Global Adaptation Network (GAN); the Global Green Economy Initiative; and provision of policy directions to relevant government ministries, the Association of African Universities (AAU), United Nations Environmental Program (UNEP), etc. These partnerships have also enhanced ATPS engagement with likeminded institutions in building STI capacity in Africa through collaboration. Brief reports on some outcomes of these partnerships are discussed in relevant sections of this narrative report.

Joint participatory dialogue on STI policy issues

United Nations Agencies such as
UNEP, UNESCO, UN-Habitat



*Members of the Global Adaptation Network (GAN - Africa) during an "Africa Adaptation Network Planning Write-shop" at the ATPS Board room. **Clockwise from Right:** Dr. Kevin Urama (Executive Director, ATPS), Mr. Jian Liu (Chief of Climate Change Adaptation Unit, UNEP), Dr. Sheila Ochugboju (Senior Communications Officer, ATPS), Ms Emily Massawa (Programme Officer, UNEP) and Dr. Musonda Mumba (Project Officer, UNEP). The meeting reviewed progress and agreed on concrete deliverables for the network and a timeline.*

The ATPS has participated in shaping many interventions by these UN agencies during the period, including the Green Economy Initiative, the Global Climate Change Adaptation Network (GCCAN) Africa chapter, the UN Panel for Sustainable Resource management, the UNEP initiatives on Education for Sustainable Development, etc. As shown in the subsequent sections of this report, the ATPS played key roles in shaping these UN processes and the Executive Director has been appointed as Chair or Co-Chair of some of these initiatives. ATPS and UNESCO are collaborating on the development of an electronic training manual for STI policy making as well as the UNESCO Global Science Report for 2004 - 2010.

The Association of African Universities (AAU)

In recognition of ATPS' role in advocating for curriculum change to mainstream trans-disciplinarity, systems thinking and innovation in Africa's tertiary education, the ATPS Executive Director, Dr. Kevin Urama, was invited to give a key note address at the 12th AAU General Congress held in Abuja, Nigeria, 4 – 9 May 2009. Dr. Urama's key note, given alongside



Prof. Jeffrey Sachs, received wide acceptance by the University Vice Chancellors from across Africa and beyond. The AAU has since published the keynote which espouses radical reforms in the pedagogies, teaching methods, stakeholder engagement, etc in African Universities. Details of Dr. Urama's presentation can be found at <http://www.atpsnet.org/about/news/2009/attachments/AAU-Dr%20Urama.pdf> and <http://www.aau.org/>.

Forum for Agricultural Research in Africa (FARA)

The ATPS Executive Director participated in the consultative forum organized by FARA to inform the development of its program on Stakeholder Consultation on Content Development for Implementing Networking Support Function 3 –Regional Policies and Markets (NSF-3). Subsequent to this activity, the ATPS collaborated again with FARA and other regional organizations such as the Alliance for Agricultural Research in Africa (AGRA); Regional Universities Forum for Capacity Building in Agriculture (RUFORUM); New Partnership for African Development (NEPAD) and Alliance for a Green Revolution in Africa (AGRA) to host the science competitions for Young Professionals and Women in Africa. The ATPS is currently collaborating with FARA, ANAFE, PanAAC on an initiative for strengthening innovation in African Universities.

New Partnership for African Development (NEPAD)

The period also saw the strengthening of ATPS relationship with NEPAD initiatives on the continent. As a follow-up to the meeting held with NEPAD and partners in Johannesburg in December 2008, the ATPS collaborated with other partners such as ANAFE, FARA, RUFORUM and the Technical Centre for Agricultural and Rural Cooperation (CTA), to organize a NEPAD university dialogue in Accra Ghana, July 2009. This meeting which brought together key University constituents from the region, brainstormed on how to make the NEPAD CAADP program more relevant to the needs of the African Faculties of Agriculture and how to get African Universities participate more in the implementation of the CAADP programs.

The ATPS will continue to support the NEPAD processes through advocacy, science communication and targeted joint initiatives. One outcome of the meeting was an agreement between NEPAD officials and the ATPS to strengthen partnerships between NEPAD and the ATPS.

African Union

Discussions are ongoing on measures to strengthen the partnership between the African Union and the ATPS. The ATPS has, in the past, contributed to a number of AU conferences, and featured in a number of its Ministerial conferences. The ATPS

secretariat is now proactively working with ATPS members in positions of office at the AU to forge a formal relationship with the apex origination in Africa. Discussions are ongoing regarding potentials of joint publications and joint facility to provide electronic library resources to improve access to STI journals in Africa. Dr. Mahama Ouedraogo, the Executive Secretary, Scientific, Technical and Research Commission (STRC) of the AU now serves on the Regional Steering Committee of the ATPS Intellectual Property Rights program.

International Conferences and Workshops

International Conference on Building of National Innovation Systems in Nigeria, 6 – 7 July 2009, Abuja, Nigeria

ATPS in collaboration with the Federal Ministry of Science and Technology (FMST) through the Raw Materials Research and Development Council (RMRDC), a key player in the innovation system in Nigeria, organized a conference on “Building a National Innovation System in Nigeria”. The workshop held from July 6 – 7, 2009 was structured to commemorate the African Union Science Revival Day which takes place on the 30th of June each year.

The two day conference brought together about 150 participants representing various stakeholder groupings/innovation actors and institutions, and professionals from Nigeria as well as resource persons from within and outside Nigeria. The aim of conference was to deliberate on how Nigeria can develop a national system of innovation for equitable and sustainable social and economic development in Nigeria and inform Nigeria's Vision 20: 2020. A significant outcome of the workshop was the decision by the relevant Ministries in Nigeria to set up a Steering Committee for the development of a collaborative platform for the National System of Innovation in Nigeria. A follow-up meeting of the Interim Steering Committee saw the election of Dr. Urama, ATPS ED, as the Chair of the Steering Committee with the support of Dr. Umar Bindir, Director General of Nigeria's National Office for Technology Acquisition and Promotion (NOTAP), and Prof. Julius Okojie, Executive Secretary of National Universities Commission (NUC) of the Federal Republic of Nigeria as Co-chairs. The RMRDC also committed to set up a national Secretariat office for Steering Committee with all the necessary equipment (computers, wireless e-mail access, printers, telephones, a car and a Secretariat staff) to facilitate the activities of the Steering Committee.

Other ATPS staff and resource persons, including Prof. Turner Isoun, former Minister for S&T in



Nigeria, Prof. Osita Ogbu former ED of the ATPS and Former Minister for national Planning in Nigeria; Prof. Michael Madukwe, ATPS National Chapter Coordinator in Nigeria, Prof. Femi Olokesusi, Co-national Chapter Coordinator of the ATPS Nigeria, Prof. Oyebanji Oyeyinka, ATPS Board member, Prof. Peter Onwualu, Director General of RMRDC and ATPS members; plaid key roles at the conference and will continue to play key roles in the Steering Committee. The World Bank's assisted STEB B project has indicated interest in supporting the activities of the committee and has

delegated a staff, Dr. Abdul Karim Obaje to serve as the national coordinator of the NSI Secretariat. The ATPS secretariat considers this a major breakthrough and an opportunity for the ATPS to shape the National System of Innovation in Nigeria, as a case study for up scaling to other member countries. Discussions are ongoing with the National Council for S&T in Kenya for a similar activity to be carried out in Kenya. For details see: <http://www.atpsnet.org/about/news/2009/rmrdc.htm>.



Delegates during the conference on “Building a National System of Innovation in Nigeria,” co-organised by ATPS, the Federal Ministry of Science and Technology (FMST) and Raw Materials Research and Development Council (RMRDC) held on 6 - 7 July in Abuja. **3rd from left;** Official from the Federal Ministry of Education, **4th from left;** Engr. (Prof.) A.P. Onwualu (Director General RMRDC, Nigeria), **6th from left (centre);** Dr. Alhassan Bako Zaku, Hon. Minister Federal Ministry of Science and Technology, **3rd from right;** Prof. Osita Ogbu (MD African Development Solutions International, former ATPS ED and former Economic Advisor to the President), **4th from right;** Dr. Kevin C. Urama, (Executive Director ATPS), **5th from right;** Prof. Banji Oyelaran-Oyeyinka, ATPS Board Member and Director, Monitoring and Research Division (UN-HABITAT)



Science, Technology and Innovations for African Development



Youth and Gender Empowerment

Wikimedia Commons: A vegetable seller in the city center of Kumasi, Ghana

Youth and Gender Empowerment Program

African Youth Forum for Science and Technology (AYFST)

Consolidation of AYFST Steering Committee and launch of Y I CAN Program

The period saw the consolidation of the Steering Committee of the African Youth Forum for Science and Technology and launch of the Youth Innovation Challenge (Y I CAN) program.

The meeting led to the consolidation of the membership of the AYFST Steering Committee and election of new leadership. Through an agreed democratic process the following countries were elected to be members of the steering committee: Malawi, Sierra Leone, Ghana, Nigeria, Uganda, Kenya, Tanzania, Ethiopia, Benin, Zambia, Lesotho, Cameroon and Cote d'Ivoire. Tennyson Magombo (Malawi) was elected AYFST Chairperson and Festus Amadu (Sierra Leone) its vice chair. Ms. Phina Magara from Kenya was elected as the secretary. In a bid to ensure continuity and progression, the Communication and Outreach Officer, Mr. Marsden Momanyi, replaced Maurice Bolo who proceeded to the UK for Doctoral Studies as the ATPS Coordinator of the AYFST and Y I CAN activities.

The meeting reaffirmed the vision of AYFST for Africa, "empowered African communities that enjoy sustainable livelihoods". It revitalized the AYFST as constituency of the ATPS, which is reflective of African

youth's passion for innovation and curiosity about new ideas. The AYFST leadership renewed its commitment to participate in educational reform, policy advocacy, and youth empowerment in order to facilitate capacity building among African youths in areas of science and technology. A report on this activity has been published as a conference proceeding and is enclosed with this report. The report is also available at <http://www.atpsnet.org/docs/AYFST%20Y%20I%20CAN%20Launch%20Report.pdf>.

AYFST Steering Committee Meeting, 27 November 2009, Abuja, Nigeria

The AYFST convened a Steering Committee meeting on 27 November 2009 in Abuja, Nigeria, with representation from eight members from Benin, Ethiopia, Kenya, Lesotho, Nigeria, Sierra Leone and Uganda.

At the meeting, members of the Steering Committee expressed concern that the voice of the African youth was increasingly being drowned out amidst all the posturing and grandstanding by various governments, civil society and interest groups. The committee agreed that there was need to review global climate change strategies, policies and interventions through the prism of the African youth as they are ready to take a stand and make a difference.

With this background, the steering committee proposed the launch of a competition aimed at inspiring, educating and forging a collective response by young people in Africa in dealing with the challenges brought about by climate change, before it's too late. It was suggested that the competition will be guided by the general principles outlined in the ATPS/UNEP Climate Sense Program. An expert panel of will also be drawn from the list of core resource persons under the ATPS Climate Sense Program. Further details on the AYFST can be found at <http://www.atpsnet.org/proglyouth.html> and http://www.atpsnet.org/pubs/workshop/Conceptnote_ayc2010.pdf.

ATPS Student Internships and Post-Doctoral Fellowships:

The ATPS hosted six (6) student interns and One (1) Post-



From Left; Tennyson Magombo, AYFST Chair and Marsden Momanyi, AYFST Coordinator



Doctoral Fellows during the year. The interns were drawn from countries in Africa and also elsewhere, including Kenya, Nigeria, and USA. The ATPS Internship program aims to encourage young Africans to build capacity in STI related fields. They are normally attached to Senior Colleagues for mentorship for 3 – 6 months, after which they return to their schools of learning to complete their studies. Under this program, the ATPS also hosts international students and Post-Doctoral Fellows for short periods to enhance North-South collaborations and knowledge networking amongst the Youths. In 2009, we hosted an Intern from Harvard University and a post Doctoral student from University of Mississippi, USA. This initiative has so far been welcomed by the youths with demands for placements increasing significantly in 2009. The program will be ongoing in 2010. For details on ATPS internships and summer placements, see <http://www.atpsnet.org/about/interns.html>.

Launch of the ATPS Fellowship Program

The ATPS Secretariat has continued to receive applications for membership of the ATPS Fellowship programs launched under its Phase VI Strategic Plan, 2008 – 2012. So far, 22 applications have been received from Europe, Africa, America and the Asian continents. Out of these applications, 16 have been processed and are now dully confirmed Fellows of the ATPS. For details, see http://www.atpsnet.org/about/research_fellows.html.

African Women Forum for Science & Technology (AWFST)

Election of AWFST Interim Steering Committee and launch of WE CAN Program

The period saw the launch of the African Women Forum for Science & Technology (AWFST) and the associated Women Innovation Challenge (WE CAN) program, 2008 - 2012. The AWFST which is a mirror program of the African Youth



*Dr Sheila Ochugboju,
Coordinator of AWFST*

Forum for Science and Technology (AYFST) was launched in July 2009 with participation by outstanding African women from seven (7) African countries and also African Women in the Diaspora, and international partners. The Interim AWFST Steering Committee (IASC) was inaugurated. The members elected Prof. Agnes Mwang'ombe, Principal College of Agriculture & Veterinary Sciences, University of Nairobi as Chair, supported by Prof. Norah Olembo, Executive Director, African Biotechnology Stakeholders Forum (ABSF) as Co-Chair. More details on the AWFST can be found at <http://www.atpsnet.org/prog/awfst.html>. The report of this workshop is enclosed.

AWFST Steering Committee Meeting, 27 November 2009, Abuja, Nigeria

Four (4) members of the AWFST Interim Steering Committee (ISM) meeting attended the ATPS Annual Conference and Workshops in Abuja Nov 24-27th, 2010. During that time a number of informal meetings and discussions with the Program Coordinator, Dr Sheila Ochugboju culminated in an agreement that host a workshop in May 2010 in Ghana or Egypt following a logistical capacity assessment by the entire committee. The Steering Committee members expressed an enthusiasm to begin implementation activities quickly in order provide a visible platform for building the capacity of African women in STI policy dialogue, leadership development, and innovation incubation program which could help to boost women entrepreneurs especially in the informal or agricultural sectors. The AWFST work plan was submitted to ATPS Senior management



Members of the AWFST Steering Committee during the meeting held from July 16-17 2009 in Mombasa, Kenya.3 From Left; Prof Norah Olembo (Executive Director Africa Biotechnology Stakeholders Forum - ABSF and former Chair of ATPS Board), Ms Bitrina Diyamett (ATPS Chapter Coordinator - Tanzania), Dr Warigia Bowman (Assistant Professor - University of Mississippi), Prof Obioma Nwaorgu (Faculty Member - Nnamdi Azikiwe University), Ms Nicola Jones (Director and CEO - Schumacher Institute for Sustainable Systems),



in December 2009 and informed the ATPS work plan for 2010 already submitted to DGIS.

ATPS/CTA/RUFORUM/AGRA/NEPAD/FARA sponsored African Women and Young Professionals in Science Competitions

The period also saw the completion of the ATPS/CTA/RUFORUM/AGRA/NEPAD/FARA sponsored African Women and Young Professionals in Science Competitions. The competition which was coordinated by the ATPS culminated in a ceremony held on the final day of the 4th AU Conference of African Ministers of Agriculture, Land and Livestock on April 24, 2009 at the African Union in Addis Ababa, Ethiopia. Five African women scientists and five African young professionals received prizes and Special awards; for outstanding contribution to science and ground breaking science were presented to two women scientists and two young professionals received awards for originality and communication.

The expert panel was really pleased with the quality of the submissions and the enthusiasm of the women and young professionals. The competitions succeeded

1. From Left; Mrs Deepa Pullanikkatil (ATPS Chapter Member - Lesotho), Ms Mamolise Falatsa (ATPS Chapter Member - Lesotho), Manal Moustafa Samra (ATPS Chapter Member - Egypt), Mrs Rita Ogugua Eboh, (ATPS Chapter Member - Nigeria), **2. From Right;** Prof Agnes Mwang'ombe (Prof Plant Pathology - University of Nairobi) and Mrs Bola Olabisi (Founder and CEO of the Global Women Inventors and Innovators Network - GWIIN)

in mobilizing women scientists and young professionals both in Africa and the Diaspora who are doing pioneering research and communicating the results for making impact on agricultural and rural sectors in Africa. They further brought to the attention of policy makers, the importance of the work done by African scientists, particularly women and young professionals and called for adequate national funding to support agricultural research for Africa's development. African governments were urged to recognize value and harness the scientific capacity that exists in Africa for economic development. The top abstracts and best practices have been published as two book volumes. See also http://www.atpsnet.org/pubs/Agri_Innovations_v2.pdf and http://www.atpsnet.org/pubs/Agri_Innovations_v1.pdf



Panel of judges listens to the presentations by finalists during the Women and Young Professionals in Science Competitions in Addis Abbaba Ethiopia held on April 20 - 24, 2009. From left; Dr Demba Farba Mbaye, Dr Ruvimbo Mabeza-Chimedza and Prof. Michael Madukwe (ATPS - Nigeria Chapter Coordinator)



Science, Technology and Innovations
for African Development

Training and Sensitization



Wikimedia Commons: Sorghum almost ready for harvesting in Lango sub-region , Uganda

Training and Sensitization

As stated in the strategic program priorities of the ATPS Phase VI plan, the thematic activities described earlier in this report are intertwined with a number of cross-cutting activities including training and sensitization, science communication and stakeholder dialogue, outreach knowledge brokerage and policy advocacy. The ATPS has therefore continued to engage in activities relevant to these cross-cutting facilitative priorities during the reporting period. Notable activities in these regard includes:

Development of ATPS/UNESCO STI Training Manual

ATPS collaborated with the UNESCO Nairobi Regional office to develop an STI training manual that 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 (STI). 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 (R&D); implications for STI policy making and policy implementation – from R&D policy to STI policy, from S&T policy to STI; and why STI policy is the necessary catalyst for economic development of nations. The training manual is currently in its final stages of completion.

Regional consultation meeting on the development of the Global Climate Change Adaptation Network in Africa, 19 -20 January 2009, Nairobi, Kenya

ATPS collaborated with UNEP to facilitate the setting up of the UN Global Climate Change Adaptation Network, Africa chapter. Following consultative meetings globally, the Africa chapter of the GAN was formed in April 2009 under the guidance of the Interim Steering Committee, co-chaired by Dr. Kevin Urama, ATPS Executive Director.

SET-DEV project workshops

As the lead Africa Partner on the Science, Ethics and Technological Responsibility in Developing and Emerging Countries (SETDEV) project, ATPS organized various activities under the project during the period under review. These are briefly discussed below:

Africa Ministerial Conference on Environment (AMCEN), 27 May 2009, Nairobi, Kenya

In his capacity as Co-Chair of the GAN Steering Committee, the ATPS Executive Director, Dr. Kevin Urama was invited by UNEP to present the GAN to the Africa Ministerial Conference on Environment (AMCEN) on the May 27, 2009. This side event provided a platform for ATPS' advocacy on responding to climate change through STI in Africa.

The first interim steering committee meeting of the African component of the Global Adaptation Network (GAN) held at the UNEP Headquarters in Nairobi from 27-28, 2009





Focus Group Workshop, February 4 – 5, 2009, Nairobi, Kenya



Dr Ragna Zeiss talks to participants during the Focus Group Workshop to discuss the Kenya Manifesto on Science, Ethics and Socialization of Science. The workshop was hosted by ATPS from February 4-5 in Nairobi

A Focus Group workshop was convened from 4 – 5 February 2009 in Nairobi, Kenya to discuss the Kenya Manifesto on Science, Ethics and Socialization of Science. The main objective of the workshop was to draft a document that incorporates the situation of scientific and technological research, the levels of socialization, the ethical issues arising from research in the local context, and strategies for enabling a process of sustainable socialization. Also discussed was the philosophy, structure and content of the draft manifesto from a perspective rooted within the African history, societal needs and policy orientations, while at the same time laying the basis for a dialogue similar for the European and Indian experiences.

The workshop was participatory in its approach. This was facilitated through individual presentations, group discussions and presentations, and plenary sessions. All these were processes that built up on each other, with each session having emerging issues that were subsequently discussed in plenary sessions.

After the workshop, an online discussion forum hosted by ATPS was set up to enable interactive sharing and dialogue on thought pieces that eventually fed into the draft manifesto.

SET-DEV Manifesto Workshop, 20 – 22 May 2009, Nairobi, Kenya

The preliminary SET-DEV Manifesto drafting workshop was held on May 20, 2009. The purpose of the brainstorming workshop was to brainstorm on the results of the project so far with partners from India, Kenyan and Europe and to create a broader interest in and support of the Kenyan manifesto process. The workshop collected various views and comments from participants which were used to improve on the draft manifesto. Participants were urged to incorporate the theoretical and methodological approaches as well as the best practices gathered.

Participation to the workshop constituted 25 select experts drawn from the learning and research institutes; government/public institutes; private sector; international bodies, civil society such as Dr Daniel Olago from the University of Nairobi, Prof. Eucharia Kenya from Kenyatta University, Mr. David Otwoma from the National Council for Science and Technology (NCST) as well representatives from SET-DEV project partners from Kenya (ATPS and IntermediaNCG), India (Dr. Shambu Prasad, Dr. Haribabu Ejanawala) and Europe (such as Prof. Wiebe Bijker, Maastricht University, the Netherlands, Dr. Joseph Cannataci, Centre for Law,



Participants at the preliminary SET-DEV Manifesto Workshop hosted by the ATPS on May 20, 2009 in Nairobi, Kenya



Information & Converging Technologies, UK among others). For details see: <http://www.atpsnet.org/about/news/2009/setdev.htm>

SETDEV Steering Committee Meeting and Launch of the Manifesto Development process

The ATPS hosted the second SET-DEV Steering Committee meeting on 20 – 21 May 2009. The meeting which was attended by 13 delegates from seven (7) countries, peer reviewed the progress of the SETDEV project in India, Kenya and Europe. Mr. Jean-François Dechamp, the EC Desk Officer in charge of the SETDEV project was among the participants who attended the steering committee meeting.

The meeting was held with the purpose of sharing and having dialogue on the results of the project so far, with partners from India, Kenya and Europe and to create a broader interest in and support of the Manifesto process. The views and comments stemming from this workshop were used in improving on the draft manifesto which will incorporate the theoretical and methodical approaches as well as the best practices gathered.

The meeting endorsed the drafting of an African manifesto; initially the manifesto was targeted specifically at two countries - India and Kenya, however a strong demand for an African Manifesto during the early stages of the project created a need for widening the scope to cover the whole of Africa.

The project aims to bridge gap between science, technology and society and strengthen the links between the research society, policy making and industry and triangulate more and more in between India, Africa and Europe and all the partners. For details see: <http://www.atpsnet.org/about/news/2009/setdev.htm>

SET-DEV Capacity Building Workshop, July 14 – 17, 2009, Mombasa, Kenya

As part of the manifesto drafting process under Work Package 4 of the SET-DEV program, the ATPS hosted a 4 day workshop in Mombasa, Kenya covering the following themes:

- a) Science in Society;
- b) Science mediation and Practice,
- c) Science Communication and Evaluation;
- d) Innovation & Governance

A dynamic mix of 50 participants drawn from the learning and research institutes; government/public institutes; private sector; international bodies, civil society as well representatives from SET-DEV project partners from Kenya and Europe attended the workshop. The workshop proceedings have been synthesized and a draft report is currently available at the ATPS Secre-

tariat. A further update on the workshop is available at <http://www.atpsnet.org/about/news/2009/setdev.htm>.

SET-DEV Project WP4 activities 21 September – 19 October 2009

As part of the ongoing activities under the SET-DEV Project (Work Package 4), two Postdoctoral researchers Dr. Ragna Zeiss and Mr. Lucio Pisacane from collaborating institutions in the Netherlands and Italy respectively, supported ATPS in conducting Case studies on current practices within civil society and research organizations. The objectives of this work package were:

- i. Carrying out of a review on the practices relevant to the activity of the institutes;
- ii. Drafting of an operational handbook containing the results of the orientation to solve the problems addressed and improve the practices reviewed;
- iii. Implementation of a process of internal dissemination of the handbook, in order to obtain possible suggestions for modification;
- iv. Implementation of an initiative for the presentation and external dissemination of the handbook.



From Left: Mr Lucio Pisacane and Dr Ragna Zeiss

Together with ATPS Research Officer, Ms Wairimu Mwangi, the researchers conducted field visits to develop case studies which analyze best practices, challenges and constraints faced by Kenyan Science and Technology Research Institutions. The aim of these case studies is to inform the African Manifesto for Science and Technology being developed under the program. The team administered surveys and carried out in-depth interviews with researchers, heads of research bodies and public administrators from the National Council on Science and Technology (NCST), Insect Physiology and Ecology (ICIPE) and Egerton University in Kenya. The information collected from these participatory studies will go towards developing 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. Dr. Ragna Zeiss is assistant professor in Science and Tech-



nology Studies at the University of Maastricht and Mr. Lucio Pisacane works with Consiglio Nazionale delle Ricerche (CNR-IRPPS). The drafting of the Handbook for Socialization of Science and Technology in Kenya is in progress and will be published in 2010. Further details on the SETDEV project are available at <http://www.atpsnet.org/about/news/2009/setdev.htm>.

African Manifesto for Science, Technology and Innovation

The ATPS is leveraging the activity of the SETDEV project to draft a Manifesto for Science Technology and Innovation in Africa. This manifesto is being written in proactive collaboration with African governments and Stakeholders as well as in multi-lateral dialogue with SETDEV partners in Europe, India and Africa. It will set the tone for the renaissance in STI in Africa for Africans by African in the coming decade. The specific objectives of the Manifesto are to restore confidence in Africa and Africans that quality STI can be done in Africa and that this is the bedrock for development; set the dream for building the necessary human, institutional and physical infrastructures for STI to thrive in Africa; establish the platform for full socialization of STI in Africa's realities, facilitation of knowledge plurality, and make a case for Africa's scientific and technological sovereignty through concerted support for STI capacity building by African governments and African people.

The manifesto also tries to establish the core principles that will enable these lofty dreams to be achieved, including: Accountability, Self-rule & Self-reliance, Social Inclusion & Equity, Confidence Building, Ownership, Applicability, New Attitudes and Mindsets, Mutual Respect, Regional and multi-lateral Partnerships, Knowledge Sharing, New Incentives, and good Leadership and Good Governance.

Scientific Revival Day for Africa (SRDA), 30 June, 2009

The 46th Ministerial Conference of the Organization of African Unity (OAU) in 1987 declared 30th June as a day that should be reserved to commemorate the Scientific Revival Day in Africa (SRDA). ATPS attaches great significance to this day and has used it over the years to mobilize support and generate enthusiasm for Science, Technology and Innovation (STI) policy in Africa through various platforms.

In 2009, ATPS supported five chapters including Ghana, Lesotho, Nigeria, Senegal and Uganda to host the SRDA in their countries. Selection of chapters to receive support followed a call for Expressions of Interest (EoI) and subsequent proposals received from the chapters. All the recipient chapters commemorated the African scientific revival days in their own countries. Brief reports on

activities held in Uganda, Ghana and Lesotho are highlighted below. For more details, please visit <http://www.atpsnet.org/about/news/2009/SRD-AFRICA.htm>.

Scientific Revival Day in Africa – Uganda Chapter



On September 17, 2009, members of ATPS in Uganda held their Annual General Meeting alongside the commemoration of Scientific Revival Day for Africa SRDA. The event was presided over by the outgoing ATPS National Coordinator for Uganda Prof. Joseph Obua who has held this position

for the stipulated maximum term of six years (from 2003-2009). The main agenda of the Annual General Meeting included appraising members of the progress achieved over the past year and to elect a new steering committee and National Chapter Coordinator. The new National Coordinator Mr. John Okuonzi, is a lecturer at the Kyambogo University, in the Faculty of Engineering and is a long-standing member of the AYFST. Mr. Marsden Momanyi, the ATPS Communications Officer represented the secretariat at the event. The Keynote speakers included Mr. Sam Senkungu, Commissioner, Ministry of Tourism, Trade and Industry Uganda and Dr. Maxwell Otim, Uganda National Council for Science and Technology. 50 participants drawn from academia, civil society, private sector and Government attended. <http://www.atpsnet.org/about/news/2009/SRD-AFRICA.htm> and <http://www.atpsnet.org/about/news/2009/Uganda%20AGM.html>

Scientific Revival Day in Africa – Lesotho Chapter

On 20th August 2009 the ATPS-Lesotho Chapter held a Workshop in Maseru, to mark Scientific Revival Day for Africa. Participants brainstormed possible ways of strengthening the newly formed Lesotho Commission on Science and Technology (LCST) as part of a stakeholder consultation process initiated by the Lesotho National Commission for UNESCO. One of the key questions tackled during the workshop include; "How can the commission on Science and Technology better work with policy makers, Universities and research institutions, Private Sector actors, Civil Society and NGOs?" The meeting brainstormed on possible structures for the commission and how they would fit within the broad framework of the Ministry of Communications, Science and Technology and the Department of Science and Technology. One of the key tasks of the Commission will be the documentation, protection and development of indigenous knowledge and technologies, as well as establishment of related databases. (<http://www.atpsnet.org/about/>



[news/2009/SRD-AFRICA.htm](http://www.atpsnet.org/about/news/2009/SRD-AFRICA.htm) and <http://www.atpsnet.org/about/news/2009/srd%20lesotho.pdf>

Scientific Revival Day in Africa – Ghana Chapter

The ATPS–Ghana Chapter organized a one-day workshop on the theme, “Entrepreneurial and Innovation Opportunities for Dealing with Climate Change Effects – Adaptation and Mitiga-



Participants during the workshop organized by ATPS Lesotho on August 20, 2009 to mark Scientific Revival Day for Africa

tion” which took place on 26 August at the auditorium of the Science and Technology Policy Research Institute (STEPRI) of the Council for Scientific and Industrial Research (CSIR). The workshop was attended by 43 participants drawn from research, academia, entrepreneurs, students and the media. The meeting was chaired by Dr. Peggy Oti Boateng, Director of Technology Consultancy Centre and former board chairperson of ATPS Ghana. Among the chief guests were Dr. Yaa Dufie Osei, chairperson of the ATPS Ghana board of trustees and the Deputy Director General of CSIR, Dr. (Mrs.) R. M. Entsua-Mensah. The workshop has organized to help create awareness about climate change and its potential implications on development, poverty, food security, disaster occurrence and management. (<http://www.atpsnet.org/about/news/2009/SRD-AFRICA.htm>)

Scientific Revival Day in Africa – Nigeria Chapter

The ATPS–Nigeria Chapter collaborated Federal Ministry of Science and Technology (FMST) through the Raw Materials Research and Development Council (RMRDC), a key player in the innovation system in Nigeria, to organize a conference on “Building a National Innovation System in Nigeria”. The workshop held from July 6 – 7, 2009 was structured to commemorate the African Union Science Revival Day which takes place on the 30th of June each year.

In addition to the sensitization activities described above, the ATPS has also engaged in a number of sensitization activities in Africa and globally. Some of these are

described briefly below.

International Panel for Sustainable Resource Management (the Resource Panel), June 2 – 4, 2009 Paris, France and November 8-11, 2009, Beijing China

In recognition of his contributions to the field, Dr. Kevin Urama, ATPS Executive Director was appointed as member of the UNEP Resource Panel for Sustainable Natural Resources Management, 2009 – 2011. He participated in the 4th meeting of the Resource Panel in Paris, France from June 2 – 4, 2009. At the meeting Dr. Urama was nominated to lead the scoping group report on Sustainable Water Management at a global scale. This is welcome news for ATPS as his nomination follows his (and ATPS’) involvement in the just concluded program on Water and Environmental Sustainability (ATPS-WESP, 2004 – 2008) which was largely funded by DGIS; and also his previous work on water management both in Africa and in Europe. Dr. Urama also attended the 5th Panel in Beijing, China from November 9 – 11, 2009, where he presented the concept paper for the working group. The panel of experts and the member states represented the steering committee an innovative and transformative. Dr. Urama will be liaising with members of the working group to carry out the global assessment starting in 2010. Case studies in Ghana, India, USA, Nigeria, Germany, China, Australia, South America, Finland are planned. The ATPS will host the Water Working Group of the Resource Panel with delegates from Europe, South America, USA, India, and Africa during the first quarter of 2010. Dr. Urama will Chair the Sustainable Water Management Working Group of the Panel. See <http://www.atpsnet.org/about/news/2009/resourcepanel.html>, and <http://www.unep.fr/scp/rpanel/>.

Africa Adaptation Network (AAN) Meeting, 5 – 7 September 2009, Nairobi, Kenya

Under the Climate Sense Program, ATPS held a meeting with UNEP to discuss the launch of the Africa Adaptation Network. The overall objective of the AAN is to help build climate resilience of vulnerable human systems, ecosystems and economies through the mobilization of knowledge and technologies to support adaptation policy-setting, planning and practices. The focus of the Network activities is on the mobilization of knowledge to improve its accessibility, on the provision of knowledge support and advisory services, and on strengthening institutional capacity for adaptation. The Network aims to contribute to the achievement of three key outcomes:

- i. Improved availability and accessibility of knowledge for adaptation, and strengthened dissemination of good adaptation practices
- ii. Strengthened targeted knowledge support and



- advisory services to governments, planners and practitioners
- iii. Enhanced capacity for adaptation of national and regional institutions in the developing world, and improved quality and sustainability of their services

IEEE AFRICON Conference 23 – 25 September 2009, Nairobi, Kenya

ATPS partnered with the Kenya Chapter of the Institute of Electrical and Electronics Engineers (IEEE) to co-host the 9th IEEE AFRICON in Nairobi, Kenya from 23 - 25 September 2009. ATPS supported the event under the Y I CAN program specific activity - Youth Innovation Challenge Awards within the specific areas of climate change adaptation. ATPS has previously supported IEEE events as a way of strengthening collaboration with the private sector. The objectives of the conference were to:

- i. Share research activities and information across the globe;
- ii. Develop research collaboration between local and international university/academia;
- iii. Local curriculum development in the field of

- engineering and information technology;
- iv. Sensitising the government, academia and private sector towards the need for collaboration towards supporting Science, Technology & Innovation (STI) for development, attainment of Vision 2030 & MDGs;
 - v. Develop international partnership between local private sector and international institutions; and
 - vi. Develop Public Private Partnership (PPP) in improving the quality and access in technical education.

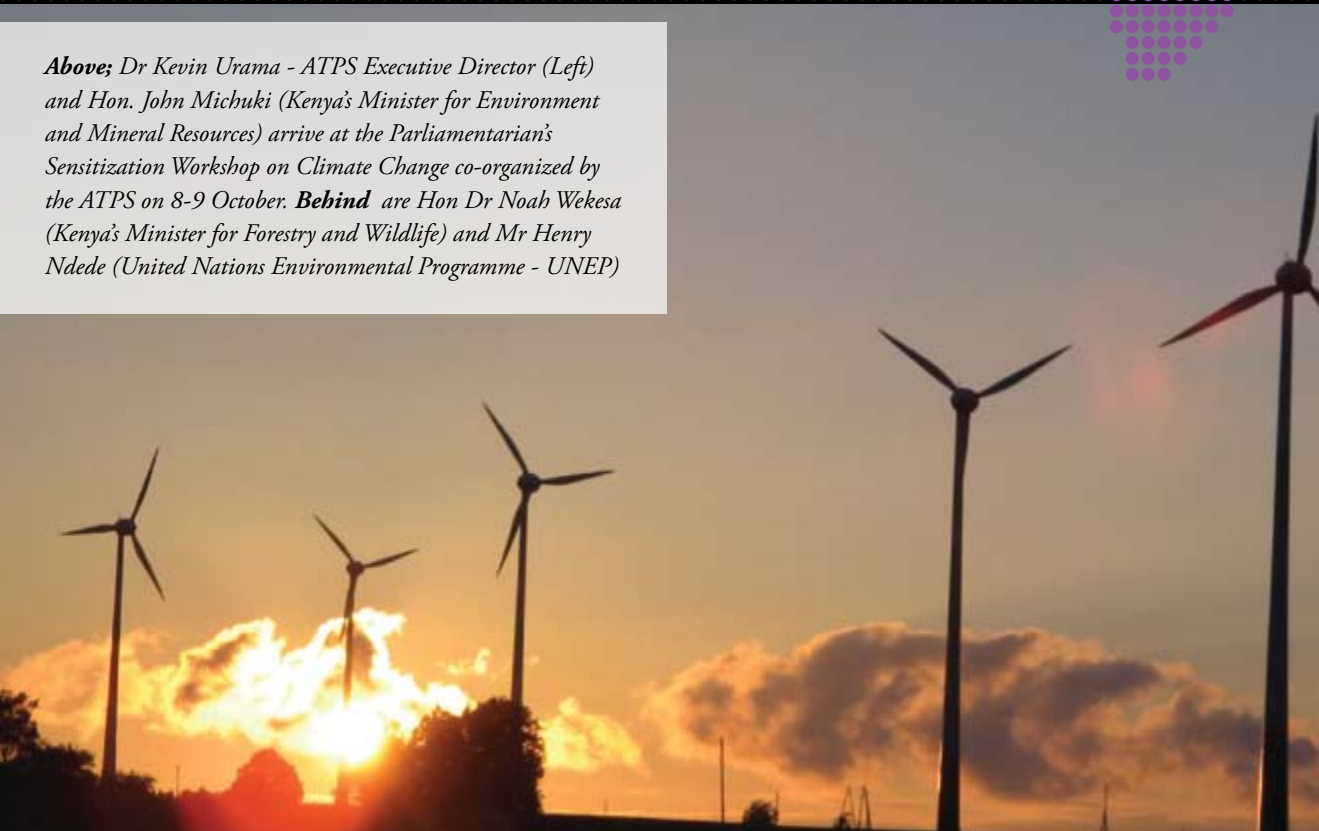
Over 100 projects were submitted by university students for the annual engineering student's exhibition based on the theme ICTs & Alternative Energy for rural development. Eminent researchers and scientists from around the world attended the conference which had submissions of over 100 International papers. The ATPS support included the provision of a Prize Award to the best student innovator in ICTs and/or Alternative Energy for rural development. The conference attracted high level representation from government officials, academia and the private sector.



Outreach, Knowledge Brokerage & Policy Advocacy

Science, Technology and Innovations
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***Above;** Dr Kevin Urama - ATPS Executive Director (Left) and Hon. John Michuki (Kenya's Minister for Environment and Mineral Resources) arrive at the Parliamentarian's Sensitization Workshop on Climate Change co-organized by the ATPS on 8-9 October. **Behind** are Hon Dr Noah Wekesa (Kenya's Minister for Forestry and Wildlife) and Mr Henry Ndede (United Nations Environmental Programme - UNEP)*



***Wikimedia Commons:** Wind farms have a very low impact on the environment as they do not use any fuel and emit no pollution.*



Outreach, Knowledge Brokerage & Policy Advocacy

African Stakeholder Dialogue Series

Africa Knowledge Transfer Partnerships, 4 – 8 Nairobi, Kenya 2009, Nairobi, Kenya

At the invitation of the British Council and the Ministry of Higher Education, Science and Technology, Kenya, Dr. Kevin Urama gave a keynote address at the Africa Knowledge Transfer Partnerships (AKTP) Conference from 4 – 8, February 2009. This conference sought to highlight the essential characteristics for successful partnerships between academics and business leaders that add value to the national economies in Africa.

The conference was opened by Rt. Hon. Raila Odinga, Prime Minister of the Republic of Kenya. Other key delegates included Hon. Dr. Sally Kosgey, Minister of Higher Education Science and Technology, and Mr. Robert Nigel Paul Macaire, the British High Commissioner in Kenya, also gave keynote addresses. Dr. Urama's keynote presentation, "Towards sustainable use of resources in the face of climate change: trans-disciplinary science, systems thinking, and innovation" was well received by all delegates. This led to initial discussion with the British Council on opportunities for collaboration with the ATPS and also the establishment of a web-hosted discussion forum to facilitate collaboration amongst the quadruple helix in the continent (see http://tech.groups.yahoo.com/group/entrepreneurship_incubator/). Details on the conference and Dr. Urama's presentation can be found at <http://www.atpsnet.org/about/news/2008/Knowledge%20Forums.htm>

The increased request by stakeholders for the ATPS to play key roles in STI Knowledge Management in the regions has led to a number of web-hosted fora some of which are under design phases, awaiting the revamping of the ATPS website to provide capabilities for world class e-communication and discussion boards such as twitting, blogging to deploy a range of e-participatory approaches to enhance the socialization of STI in Africa through effective participation of the quadruple helix in identifying, creating, representing, and communicating

STI knowledge for African development. This is built on our firm belief that adequate valorization of STI can be enhanced if we have the requisite fora to enhance participation in Africa.

National Conference for Dissemination of Research Results and Exhibition of Innovations in Kenya, 4 – 8 May 2009,

The National Council for Science and Technology (NCST), Kenya invited ATPS to its 2nd National Conference for Dissemination of Research Results and Exhibition of Innovations, held from May 4 – 8, 2009. Dr. Sheila Ochugboju, ATPS Senior Communications and Outreach Officer represented ATPS at the event and delivered the keynote presentation titled: Knowledge Sharing to Enhance Research and Innovation Capacity in Africa. The conference provided a forum to define the link between STI and development towards Kenya's national aspirations expressed in Kenya's Vision 2030. For details see: <http://www.atpsnet.org/about/news/2009/ncst.htm>

AAU 12th General Conference on Sustainable Development in Africa: The Role of Higher Education 4 – 9 May 2009, Abuja, Nigeria

The Association of African Universities (AAU) invited Dr. Urama and Prof. Jeffrey Sachs of Columbia University to deliver key note papers at its 12th General Conference in Abuja, Nigeria from May 4-9, 2009. The theme of the Conference was "Sustainable Development in Africa: The Role of Higher Education". Dr. Urama's keynote presentation: "Higher Education for Sustainable Development in Africa (HESDA)" x-rayed the current pedagogies in African tertiary education and made significant recommendations of how these could be re-engineered to facilitate innovation for sustainable development. His presentation received wide reviews in the global press and the AAU has subsequently published the full paper in a special edition of the Newsletter to inform further discussions on the subject.

This activity has provided key opportunities for the ATPS to push forward its role in advocating for curriculum change to mainstream trans-disciplinarity, systems



thinking and innovation in Africa's higher education. Discussions are ongoing with the AAU to further avenues for cooperation between the AAU and the ATPS to achieve this mutual objective. The full paper by Dr. Urama and the excerpts of the media reviews can be found at <http://www.atpsnet.org/about/news/2009/attachments/AAU-Dr%20Urama.pdf>. Further details on the AAU conference can be found at <http://www.aau.org/>. The keynote paper was published as a Special paper of the ATPS (see enclosed) and also published in Science Africa, a pan African Newspaper on science & technology.

Health NGOs Network Launch, 14 May 2009, Nairobi, Kenya

ATPS Senior Communications and Outreach Officer, Dr. Sheila Ochugboju Represented ATPS at the Health NGOs Network launch in Nairobi on 14 May 2009. This is a forum for NGOs dealing with health issues for purposes of collaboration, sharing of experiences and advocacy. HENNET brings together different health oriented CSOs, with diverse interests, but all having a common vision of a 'Healthy Kenyan Society'. The HENNET secretariat is hosted at AMREF Kenya Country Office.

NEPAD University Dialogue, July 27–30, 2009, Accra, Ghana

As part of the collaborative activities with NEPAD, ATPS participated with FARA, ANAFE, RUFORUM, CTA and other partners to organize a NEPAD-University Dialogue on 27 – 30 July, 2009 in Accra Ghana. Dr. Kevin Urama represented ATPS at the meeting. A core objective of the Dialogue was on how to harness Africa's own human resources and capacities for NEPAD implementation, with particular reference to the Comprehensive African Agriculture Development Program (CAADP). Overall, the Dialogue is expected contribute towards 'Bridging the Education Gap' so as to increase African tertiary institutions' contribution to overall development. For details see: <http://www.atpsnet.org/about/news/2008/NEPAD%20Trip.pdf>

Meeting with President of the National Natural Science Foundation of China (NSFC)

On 9 August 2010, the President of the National Science Foundation of China, Yiyu Chen, held crucial talks with officials from the ATPS, UNEP and key partners under the umbrella of the African Academy of Sciences at the UNEP headquarters in Nairobi, Kenya. A high level delegation from the National Natural Science Foundation of China (NSFC) accompanied the president. They included the DGI (Bureau of International Cooperation), Prof. Jianghuo Han, Deputy Division Director, Bureau of International Cooperation, Dr. Zahang Yongtao,

Deputy Director General, Department of Life Sciences, Prof. Feng Feng, and Prof. Yupeng Yao (Department of Earth Sciences. The meeting was hosted by Jian Liu, Chief, Climate Change Adaptation Unit of UNEP. The ATPS was represented by Dr. Kevin Urama, Dr. Sheila Ochugboju and Mr. Marsden Momanyi at the meeting, which discussed possible avenues of collaboration between key African and the Chinese scientists.

Renewable Energy & CDM Consultative Workshop, 31 July 2009, Nairobi, Kenya

Ms. Wairimu Mwangi, ATPS Research Officer attended a workshop on 'Renewable Energy & CDM Consultative Workshop' on July 31, 2009 in Nairobi, Kenya. The workshop provided a forum where high profile Kenyan and Korean experts on environmental issues discussed environmental issues such as Climate Change, Clean Development Mechanism (CDM) projects, recycling energy amongst others. Preliminary links with the Government of Korea was developed by the ATPS at this forum.

An African Agricultural Policy Caucus: Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Annual General Meeting, 26 - 29 August 2009, Mombasa, Kenya

Dr Sheila Ochugboju represented ATPS at the above meeting, where she chaired a panel discussion on "African Agricultural Policy". In attendance were participants of the AGM drawn from member universities, CGIAR centres, NGOs, farmers' organizations and other high level representatives from partners and stakeholders. The objective of the session was to gather ideas of stakeholders, champions and advocates of change in African agricultural training and research for development and to create an open space for public awareness amongst scientists, policy makers and civil society on various initiatives in agricultural tertiary education in support of policy and sustainable agricultural development. For more details, see

http://www.ypard.org/ypard/digitalAssets/609_RUFORUM_Monthly_Newsletter_-_June_2009.pdf.

Parliamentary Committees Sensitization Workshop on Climate Change, 8-9 October 2009, Mombasa, Kenya

The Kenyan Ministry of Environment and Mineral Resources (MEMR) in conjunction with the IDRC-DFID supported Climate Change Adaptation for Africa (CCAAA) through the IGAD Climate Prediction and Applications Centre (ICPAC), the United Nations Environmental Program (UNEP) and the African Technology Policy Studies Network (ATPS), hosted a sensitization workshop for Members of Parliament in Kenya from 8-9 October 2009 in Mombasa, Kenya. The specific objectives of the workshop included:-



Above: A section of delegates during the Parliamentarians Sensitization Workshop which the ATPS coordinated together with key partners in October 8-9, 2009 in Mombasa, Kenya

- i. Appraising the honorable members of Parliament on climate change issues for Kenya;
- ii. Engaging Members of Parliament in Kenya's National Climate Change Response Strategy (NCCRS) and other strategic initiatives for addressing climate change in Kenya;
- iii. Appraising and engaging Members of Parliament on Kenya's position paper for the 15th Conference of Parties (CoP 15) on Climate Change vis a vis the position of other parties and their implications for Kenya; and
- iv. Facilitating and strengthening partnerships with Members of Parliament to inform the process of the preparation of the climate change policy for Kenya.

Over 150 delegates including the Honorable Minister for Environment and National Resources (MENR), the Honorable Speaker of the National Assembly, Cabinet Members and Permanent Secretaries of various House Committees, Members of Parliament and Provincial Commissioners of the Government of Kenya as well as the Executive Director of UNEP attended the event.

The workshop led to production of a Communiqué by the members of Parliament on climate change issues for Kenya. A proceedings report from this workshop with contributions to the CoP 15 process and a climate change policy for Kenya by the members of Parliament; and established partnerships amongst the Parliamentary Committees for local, national, regional and global actions to address climate change in Kenya is currently in press. Details on the workshop can be found at <http://www.atpsnet.org/about/news/2009/ccs-kenya.html>.



Knowledge Brokerage Activities

World Social Science Forum, May 9 – 10, 2009, Bergen, Norway

At the invitation of the inaugural World Social Science Forum held from May 9 - 10 in Bergen, Norway, Dr. Kevin Urama presented a special panel on "Digitization, Globalization and Commercialization of Social Sciences and Humanities: Implications for Socialization of Science & Technology in Africa". Other key note presenters at the conference included Prof. Amartya Sen, Nobel Prize Winner on economics, Prof. Wiebe Bijker, renowned STI expert from the University of Maastricht, the Netherlands and over 800 delegates from around the world. Dr. Urama's paper which explored the implications of digitization, globalization and commercialization (DGC) of social sciences and the humanities on effective socialization and valorization of science and technology in Africa was well received by the delegates and is now published by the WSSF.

In his presentation, Dr. Urama argued that the current social science research infrastructure and techniques for knowledge generation, valorization and use are significant constraints that inherently limit the capacity of new technologies to contribute tangible solutions to tangible problems of the global poor, especially in Africa. He also identified lack of IT facilities and development infrastructure as core limitations to the African



countries ability to harness the potential benefits of DGC in the new global economy. Drawing lessons from access to ATPS hosted internet knowledge facilities, he warned that unless the global digital divide are addressed through STI capacity building, DGC may have reverse and adverse implications for Africa. Dr. Urama participation was fully funded by WSSF. For details see:

<http://www.atpsnet.org/about/news/2009/attachments/WSS%20Presentation.pdf>.

British Science Communication Conference, 22 - 23 June 2009, London, UK

Dr Sheila Ochugboju represented the ATPS at the British Science Communication Conference in the UK, organized by the British Association in partnership with the Wellcome Trust, BP and the Department for Business, Innovation & Skills. The Conference addressed the key issues facing science communicators in the UK and brought together key stakeholders involved in public engagement. The Conference had a central focus - 'Behavior and Choice' - exploring the role that science communicators should or could play as influencers of behavioral change.

Dr. Ochugboju presented a paper entitled "Creating culturally relevant science cafés - lessons from abroad". This provided an overview of the African Science Cafe Model, launched by Dr Ochugboju in 2007 in South Africa; an update on current developments and an explanation of its use by ATPS for engagement with policy-makers. For more details, see http://www.britishecienceassociation.org/web/ScienceinSociety/ScienceCommunicationConference/_2009_Conference_Report.htm.

CTA Advisory Committee Meeting, 16 – 20 November 2009, Montpellier, France

The Technical Centre for Agricultural and Rural Cooperation (CTA) invited the ATPS Executive Director to attend the 8th Advisory Committee Meeting on S&T for ACP Agricultural and Rural Development. The theme for the meeting was "ICTS Transforming Agricultural Science and Innovation – Implications for ACP Agriculture". The meeting took place in Montpellier, France from 16 – 20 November 2009.

United Nations Climate Change Conference (COP 15), 07 – 18 December 2009

Further to its central role in establishing the Africa Adaptation Network (AAN) and as part of its CSP program, Dr. Kevin Urama, ATPS Executive Director attended the CoP 15 conference held in Copenhagen, Denmark in December 2009. During the conference, he attended the meeting of Co Chairs of the GAN to brainstorm on adaptation strategies for developing countries. Following this meeting, the ATPS is currently collaborating with UNEP and other partners to submit a proposal to the World Bank and other Agencies to support the Global Adaptation Network (GAN).

ATPS Media Outreach Activities

The ATPS was approached by a producer of the Kenya Broadcasting Corporation (KBC) to present some of her work on climate change and environmental management on their life show called ECOSHOW. Subsequent to two appearances by Dr. Urama and public appreciation of the types of programs being run by the ATPs on STI capacity building in Kenya and in other African countries, the KBC Producer has approached the ATPS to formerly co-host the show at no financial costs to the ATPS. The ATPS will provide technical expertise and resource persons for the show.

Strengthening and Expansion of National Chapters

ATPS/RMRDC Activity in Nigeria

Through this activity, the ATPS Secretariat sought to strengthen the existing links between the ATPS Nigeria and relevant state agencies in the country. The activity was organized in collaboration with the Raw Materials Research Council (RMRDC) of the Federal Ministry of S&T in Nigeria. Dr. Umar Bindir, Director General, for the National Office for Technology Acquisition and Provision (NOTAP), Federal republic of Nigeria, now serve as the ATPs Policy Liaison Officer for the ATPS Nigeria Chapter. The Nigerian Government has now backed the formation of the inter-ministerial and inter-agency Steering committee for to foster the coordination of the National Systems of Innovation in Nigeria. The ATPS considers this a remarkable contribution by the Federal Government of Nigeria toward the strengthening of ATPS' STI capacity building activities in the country.



Delegates at the CTA Advisory Committee Meeting, 16 – 20 November 2009, Montpellier, France



ATPS Uganda Chapter AGM September 17, 2009

On September 17, 2009, members of ATPS in Uganda convened at Hotel Triangle in Kampala, Uganda to hold their Annual General Meeting. The event was presided over by the outgoing ATPS National Coordinator for Uganda Prof Joseph Obua who has held this role for six years. About 50 participants drawn from academia, civil society, private sector and Government attended the event. The event came aptly after the fresh announcement of an approval of a new STI policy in Uganda and only a few days preceding the commencement of National Science Week in Uganda, which kicked off on September 21, 2009. The workshop proceedings were covered extensively by Uganda Broadcasting Corporation (UBC) Radio and TV.

Science and Technology Days, Abidjan, Cote d'Ivoire

The ATPS Cote d'Ivoire Chapter in partnership with the Benianh Foundation International, is planning the first edition of Science Days at the Palais de la culture in Abidjan, Cote d'Ivoire. The event will see the launch of a call for nominations for a technology award for researchers, research institutes or teams, research centres and laboratories, and an inventors award.

The ATPS-Francophone chapters (Benin, Burkina Faso, Cameroon, Cote d'Ivoire, Mali and Senegal) will convene a regional meeting as a side event. Part of the agenda will be to discuss one or two sectors of activity of regional interest on which the West Africa can rely on to begin its technological development. In liaison with Benianh Foundation International, the ATPS Francophone chapters are seeking funding from regional organizations under regional African Development such as UEMOA, ECOWAS, BOAD, BCEAO, ADB, etc. to support the event. The ATPS provided seed funding to support participation of the ATPS Secretariat and other Francophone chapters in this activity.

The event was initially scheduled for October 28 – 20, 2009 but was postponed to the first quarter of 2010, after the Ivorian President and his Cabinet expressed interest to be part of the meeting. The ATPS Secretariat regards this activity as a significant step towards strengthening the Regional Chapters' Steering Committee representatives as the regional centre for coordination of ATPS activities in the region. ATPS appreciates the initiative displayed by Dr. Kouadio and Mr. Bendjo for taking this initiative to galvanize the Francophone chapters.

National Chapter Training Activities

The ATPS implemented three training activities for ATPs national chapter coordinators during the period. The first was

the training on proposal writing and program management provided during the joint meeting of the ATPS National Chapters and the ATPS Board on 01 April 2009 at Hilton Hotels, Nairobi Kenya. The second was the training of the national coordinators on intellectual property rights and effective coordination of the program activities in the coordinating centers. This was carried out on 28 September 2009. Finally, a formal training on accessing funding from Donors, proposal Writing and Managing project Risks was provided during dedicated sessions at the ATPS annual conference and workshop, on 27 November 2009. International Experts from Italy, UK, Africa and the US were invited to provide the necessary training on the relevant subjects.

Institutional Grants to National Coordinating Centres of the IP program:

The ATPS provided core support to the national coordinating centres of the IP program in 6 countries. These grants were aimed to support respective national chapters as National Coordinating Centers for the joint ATPS/BTA Intellectual Property program on Strengthening National IP Policy and Legal Frameworks in East and Southern Africa for Traditional Knowledge (TK), Access and Benefit-sharing (ABS) and effective Intellectual Property (IP) systems.

Applications for New Chapters

The period has also seen the receipt of applications to establish new chapters of the ATPS from five (5) countries, including: Egypt, Madagascar, Mauritius, Rwanda and Tunisia. The ATPS Board has approved establishment of Institutional Focal Points in Egypt, Madagascar, and Mauritius while the modalities for establishing ATPS Focal points in Rwanda and Tunisia are being reviewed to determine competence, wider commitment and potentials for sustainability.

The demand for ATPS activities also increased significantly, with African national governments, regional and sub-regional organizations, and the UN Agencies (UNEP, UNESCO, UN_HABITAT) requesting the ATPS to carry out STI related activities jointly; more Donors such as the Rockefeller Foundation, UNEP, the Danish Government through collaboration with FARA, Wellcome Trust, University of Palermo and University of Maastricht joining the ATPS Consortium of Donors. Several Government Ministries approached the ATPS to support in their policy processes and workshops during the year.

ATPS Publications

One of the objectives of the ATPS network is to disseminate research results to policy makers, legislators, the organized private sector, civil society, mass media and farmers groups through publications, dialogue and advocacy. Among its range of publications are the working paper series (WPS), Research Paper Series (RPS), Special Paper Series (SPS) and Technopolicy Briefs.

Promotional Flyers and Concept Notes



About ATPS

Climate Sense

Concept paper: <http://www.atpsnet.org/prog/concepts/csp%20Concept%20Note.pdf>

AYFST – Youth Innovation Challenge Program (YI CAN)

Concept paper
<http://www.atpsnet.org/prog/concepts/Concept%20YICAN.pdf>

AWFST – Women Innovation Challenge Program (WE CAN)

Concept paper
<http://www.atpsnet.org/prog/concepts/WECAN%20Concept%20Note.pdf>

About SET-DEV

African Manifesto for Science & Technology
<http://www.atpsnet.org/prog/concepts/SETDEV%20Concept%20Note.pdf>

Special Paper Series

- 1  Urama, K., (2009) **Higher Education for Sustainable Development in Africa (HESDA).** http://www.atpsnet.org/pubs/specialpaper/higher_education.pdf
- 2  Kouadio, A., (2009) **Etat, politique technologique et croissance économique en Afrique: une étude comparative sur trois pays africains** <http://www.atpsnet.org/pubs/specialpaper/Rethinkingfr.pdf>
- 3  Kouadio, A., (2009), **Rethinking African Economic Policy: The State, political technological and economic growth in Africa: a comparative study of three African countries.** <http://www.atpsnet.org/pubs/specialpaper/rethinkingpolicy.pdf>
- 4 Urama K.C. and Ozor N. (2010), **Impacts of Climate Change on Water Resources in Africa, ATPS Special Paper (In press)**
- 5 Ozor N. (2010) **Mainstreaming Climate Change into University Curricula- Issues, Needs, and Processes. ATPS Special Paper, (in press)**



ATPS Reports



ATPS Annual Report 2008

<http://www.atpsnet.org/pubs/annualreport/Annual%20Report%202008.pdf>



ATPS Newsletter.

Jul - Dec. 2008

<http://www.atpsnet.org/pubs/newsletter/ATPS%20Newsletter%202008b.pdf>



ATPS Newsletter.

Jan-June 2009

<http://www.atpsnet.org/pubs/newsletter/ATPS%20Newsletter%202009.pdf>

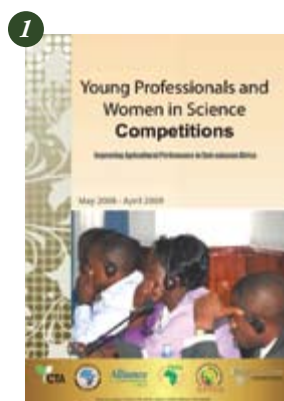


ATPS Newsletter.

Jul-Dec 2009

<http://www.atpsnet.org/pubs/newsletter/ATPS%20Newsletter%202009b.pdf>

Conference Proceedings



Young Professionals and Women in Science Competitions.

May 2008 - April 2009 Technical report http://www.atpsnet.org/pubs/workshop/CTA_tech_Report.pdf



Shaping the Future for Women in Science Technology and Innovation in Africa.

Report on the First AWFST Interim Steering Committee Meeting <http://www.atpsnet.org/docs/WE%20CAN%20Launch%20Report.pdf>



Shaping the Future of Science Technology and Innovation in Africa.

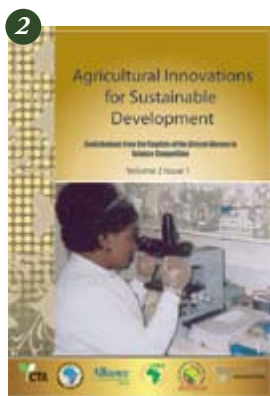
Report on the Fourth AYFST Steering Committee Meeting <http://www.atpsnet.org/docs/AYFST%20Y%20I%20CAN%20Launch%20Report.pdf>



Kenya Talks Climate Change.

Report on the Climate Change Parliamentarians Sensitization Workshop (In Press). <http://www.atpsnet.org/about/news/2009/attachments/parliamentary%20workshop%20report.pdf>

Book Volumes and Book Chapters



1. **Agricultural Innovations for Sustainable Development** Contributions from the African Youth Forums for Science and Technology. Volume 1 Issue 1 http://www.atpsnet.org/pubs/Agri_Innovations_v1.pdf.
2. **Agricultural Innovations for Sustainable Development.** Contributions from the African Women Forum for Science and Technology. Volume 2 Issue 1 http://www.atpsnet.org/pubs/Agri_Innovations_v2.pdf.
3. Urama K. C. (2009). **Innovation and Appropriability:** Empirical Evidence and Research Agenda, Comments: In, The Economics of Intellectual Property, Suggestions for Further Research in Developing Countries and Countries with Economies in Transition, WIPO.
4. Urama K. C., Ozor, N., Ousumane, K., and Hassan, M (eds). **The State of STI in Sub-Saharan Africa, 2005 – 2010**, In: UNESCO Science Report, 201. UNESCO Publishing (in Press).
5. ATPS/UNESCO (2009). **Science, Technology and Innovation (STI) Policy Making**, A Training Manual (In press).



ATPS Conference Papers

1. Urama K. C. and Eboh, E. C (2009). Towards an Integrated Policy Response to Global Financial Crisis, Climate Change, Environmental Degradation and Poverty through STI: Avoiding Type I and Type II Errors. A keynote paper presented at the 2009 ATPS Annual Conference and Workshop on Africa's Response to Global Challenges through Science, Technology and Innovation, Abuja, Nigeria, 24 – 27 November 2009. <http://www.atpsnet.org/docs/2009/global%20financial%20crisis.ppt>
2. Urama K. C. and Swilling, M. (2009). Decoupling Economic Growth from Resource Use and Environmental Degradation: International Perspectives & Lessons for Africa. A keynote paper presented at the 2009 ATPS Annual Conference and Workshop on Africa's Response to Global Challenges through Science, Technology and Innovation, Abuja, Nigeria, 24 – 27 November 2009. <http://www.atpsnet.org/docs/2009/decoupling.pptx>
3. Urama K. C. (2009). Trans-disciplinary Science, Systems Thinking and Innovation: Implications for Collaboration. A keynote paper presented at the Joint International Conference of the Raw Materials Research and Development Council (RMRDC) and ATPS, 6 – 7 July 2009.
4. Urama K. C. (2009). Knowledge Sharing to Enhance Research and Innovation capacity in Africa. <http://www.atpsnet.org/about/news/2009/attachments/NCST%20Presentation.pptx>
5. Urama K. C. (2009). Digitization, Globalization and Commercialisation (DGC) of Social Sciences and Humanities, A Panel paper presented at the 1st World Social Science Forum, Bergen, Norway, 10 – 11 May 2009. ATPS Special Paper, Forthcoming. <http://www.atpsnet.org/about/news/2009/attachments/WSS%20Presentation.pdf>
6. Urama K. C. (2009). Towards Sustainable Use of Resources in the Face of Climate Change: Trans-disciplinary, A Keynote Paper presented at the British Council: Africa Knowledge Transfer Partnerships, Nairobi Conference, 22 February 2009. ATPS Special Paper, (forthcoming)
7. Urama K. C. (2009). Mainstreaming Transdisciplinarity, Systems Thinking and Innovation in African Universities, Keynote paper at the 1st MESA Conference, UNEP, 28 November 2008, ATPS Special paper
8. Ochugboju, S. (2009). Creating Culturally Relevant Science Cafes Lessons from Abroad. British Science Communication Conference, 22 – 23 June 2009, London, UK. <http://www.atpsnet.org/docs/2009/BSA%20presentation-African%20Science%20Cafe.pdf>

Publications in Progress

Book Volumes at Drafting Stages (*manuscript under preparation*)

1. African Manifesto for Science, Technology and Innovation
2. A handbook for Socialisation of Science Technology and Innovation in Kenya,
3. Urama, K.C., et al. (eds). Africa's Response to Global Challenges of Climate Change, Global Financial Crisis, and Poverty: The Role of STI,
4. Urama K. C., Alaba, O. and Wekunda, J. (eds). The State of Intellectual Property Rights, Access and Benefit Sharing in Africa and its implication for development,
5. Urama K.C. et al., (eds.). Science, technology and Innovations for Water and Environment Management in Africa,
6. Urama K. C. and Ozor, N (eds). The State of STI in Africa
7. Urama K. C. et al. Decoupling, Water Efficiency and Water Productivity. A report of the Resource Panel

Other Multi-Media Resources



1. AYFST/AWFST DVD
2. ECO SHOW DVD
 - i. Urama K.C. and Philip Osano (2009). Economics and the Environment- Need for Decoupling Growth from environmental degradation
 - ii. Urama K.C. and Philip Osano (2009). Climate Change Policy and CoP15 conference – Policy advice to Global Leaders
 - iii. Urama K.C., Olumuyiwa Alaba, and Philip Osano (2009). Intellectual property Rights and innovation: African perspectives
 - iv. Urama K. C. and Brian Heap (2010). Climate Change: the outcomes of the CoP15 conference and road ahead.
3. Parliamentary workshop DVD: Towards Kenya's Climate Change Policy
4. Intellectual Property Rights, TK and ABS DVD (under production)



Members of the ATPS Board of Directors who attended the 15th Annual Board Meeting in Nairobi; From bottom Left; Prof Turner Issoun, Prof Norah Olembo (Previous Board Chair), Prof Sam Wangwe (Board Chair), From Top Left; Dr Kevin Urama, Prof Oliver Saasa, Prof Sir Brian Heap and Mr Noel Akossi Bendjo

Annexes

Science, Technology and Innovations for African Development



Wikimedia Commons: Genetic engineering of wheat ; under the right policy frameworks, biotechnology promises to help improve food security in Africa

ANNEX 1: Financial Report



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Certified Public Accountants
(Kenya)
"Kirungii"
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INDEPENDENT AUDITORS' REPORT ON THE FINANCIAL STATEMENTS OF AFRICAN TECHNOLOGY POLICY STUDIES NETWORK (ATPS)

We have audited the accompanying statements of African technology policy studies network (ATPS), set out on the pages 31 to 46 which comprise the statement of financial position as at 31 December 2009, 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 and fair presentation of these statements in accordance with International Financial Reporting Standards and the requirements of the Kenya Companies Act. This responsibility includes: designing, implementing and maintaining internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error; selecting and applying appropriate accounting policies; and making accounting estimates that are reasonable in the circumstances.

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 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 2009 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.

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 purpose of our audit;
- ii) 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.

Certified Public Accountant (Kenya)
30 April 2010
Nairobi

ANNEX 1: Financial Report

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

STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 31 DECEMBER 2009

		2009	2008
	Note	US\$	US\$
INCOME	2	1,687,201	847,200
EXPENDITURE			
Project expenditure	3	(1,537,007)	(746,089)
General administration	3	(146,198)	(90,927)
		(1,683,205)	(837,016)
Finance income	4	955	974
		(1,682,250)	(835,042)
SURPLUS FOR THE YEAR		4,951	11,158
		=====	=====

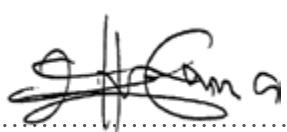
ANNEX 1: Financial Report

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

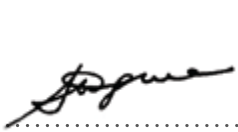
STATEMENT OF FINANCIAL POSITION
31 DECEMBER 2009

		2009	2008
ASSETS	NOTE	US\$	US\$
Non current assets	6	14,680	15,943
Motor vehicle nad equipment	7	5,448	1,982
Intangible Assets		<u>20,128</u>	<u>17,925</u>
Current assets	8	170,705	289,723
Grant receivable	9	32,962	27,376
Other receivables		843,553	133,984
Bank and cash balances		<u>1,047,220</u>	<u>451,083</u>
Total assets		<u>1,067,348</u>	<u>469,008</u>
		=====	=====
FUNDS AND LIABILITIES			
Funds			
Accumulated funds		<u>19,105</u>	<u>14,154</u>
Current liabilities			
Unexpended grants	8	497,374	217,680
Payables and accruals	10	73,021	63,720
Undisbursed grants payable	11	477,848	173,454
		<u>1,048,243</u>	<u>454,854</u>
Total funds and liabilities		<u>1,067,348</u>	<u>469,008</u>
		=====	=====

The financial statements on pages 31 to 46 were approved by the Directors on 19 April 2010 and signed on their behalf by:



EXECUTIVE DIRECTOR



DIRECTOR

ANNEX 1: Financial Report

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

STATEMENT OF CHANGES IN EQUITY
FROM THE YEAR ENDED 31 DECEMBER 2009

	General Fund
	US\$
At 1 January 2008	2,996
Surplus for the year	11,158
At 31 December 2008	14,154
	=====
At 1 January 2009	14,154
Surplus for the year	4,951
At 31 December 2009	19,105
	=====

ANNEX 2: 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 23 countries (including Anglophone, Lusophone and Francophone countries) with an expansion plan to cover the entire sub-Saharan Africa, by 2015. As an international organization, ATPS enjoys the privileges and diplomatic immunities accorded to similar international organizations in Kenya.



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Carol Thuku	Senior Secretary/Programme Administrative Assistant
Dr. Nicholas Ozor	Research Officer (Post-Doc)
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Wairimu Mwangi	Research Officer
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Febechi Okaro	Intern (Research/Administration)
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ANNEX 6: Details of commissioned and ongoing small grants and regional grants

Emerging and Indigenous Technologies for Climate Change Adaptation in Africa (CP0109) – Small grants					
Grant #	Lead Proponent	Other Proponents	Title of Proposal	Country	STATUS
CP0109/15	Kaletapwa Farauta	1. Yusuf Lawan Idrisa 2. Victoria Chinwe Agu	Assessment of the incidence of Climate Change and Indigenous Innovative Adaptation Measures in Northern Nigeria	Nigeria	Commissioned
CP0109/12	Godeto T.W	1. Olaleye, A.O 2. Mekbib, S.B 3. Mokhothu, M.N. 4. Masia J.	Assessment of the Impact and Adaptive Capacity of the Machobane Farming System to Climate Change in Lesotho	Lesotho	Commissioned
CP0109/21	Shemdoo Riziki		Tracking Effective Indigenous Adaptation Strategies on Impacts of Climate Variability on Food Security and Health of Subsistence Farmers in Tanzania	Tanzania	Commissioned
CP0109/05	Nzeadibe Chidi	1. Nhaemeka 2. Chukwuone Victoria 3. Chinwe Agu 4. Nassi H. Mandu	Climate Change Awareness and Indigenous Adaptive Technologies in the Niger Delta Region of Nigeria	Nigeria	Commissioned
CP0109/22	Adebayo Dr. K	1. S.O Iposu 2. J.J. Atungwu 3. F.O.A George 4. Temitope Ayinde 5. A.O.S Ayanwale 6. O.S. Fashola 7. T.A Dauda 8. S.L Rikko	Emerging and Indigenous Technology for Climatic Change Adaptation in the Farming Systems of Southwest Nigeria	Nigeria	Commissioned
CP0109/08	Mahu Seth Agbeve	Vadim Belotserkovsky	Wind Resource Assessment for Sustainable Development in Rural Ghana- A Science, Technology, and Innovation Research Capacity Building Initiative	Ghana	Commissioned
CP0109/14	Enete Anselm	1. Ignatius Madu 2. E.A Onwubuya 3. A.N Onyekuru 4. Mojekwu Josephat 5. Staff Sgt (rtd) Fidelis Eze	An Assessment of Indigenous Climate Change Adaptation Practices in Smallholder- Agriculture of Southeast Nigeria	Nigeria	Commissioned
CP0109/02	Emeka Celestine Peter Nzeh	1. Rita Ogugua	Study of Technological and Farming Systems Adaptation to Climate Change in Farming Communities of Enugu State , Nigeria	Nigeria	Commissioned
CP0109/13	Morlai Teddy	1. Kelleh G. Mansaray 2. Gibril Vandi	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.	Sierra Leone	Commissioned
CP0109/11	Samra Manal	1. Ahmed Abdel Hamid	Sensitizing and Building the Capacity of Women towards Climate Change Consequences in Northern Lakes of Egypt	Egypt	Commissioned

Annex 6: Details of commissioned and ongoing small grants and regional grants

Grant #	Lead Proponent	Other Proponents	Title of Proposal	Country	STATUS
CP0109/20	Magombo Tennyson	<ol style="list-style-type: none"> Mutisingirire Kachulu George Kanthiti Hilda Kabuli Grace Chawezi Phiri 	Enabling Rural Innovation for Climate Change Adaptation and Livelihood Security	Malawi	Commissioned
TRADITIONAL KNOWLEDGE SYSTEMS & INCREASING ACCESS TO BENEFIT SHARING OF INTELLECTUAL PROPERTY IN AFRICA (CP0209) – SMALL GRANTS					
CP0209/03	Ndeti Prof. D.M	<ol style="list-style-type: none"> Anne Mwayo Victoria Mutiso Lincoln Khasakhala 	Traditional Medicine: Mental Health and Behavioural Practices	Kenya	Commissioned
CP0209/01	Phiri Dorica Suyve	<ol style="list-style-type: none"> Chapusa Domino Phiri 	Ascertaining the Nature of Traditional Knowledge and Traditional Cultural Expressions and the Search for Legal Options in Regulating Access in Malawi.	Malawi	Commissioned
CP0209/02	Shemdoo Georges	<ol style="list-style-type: none"> Loy Mhando 	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	Tanzania	Commissioned
CP0209/04	Solomon Tibebe	<ol style="list-style-type: none"> Wondwossen Belete Getahun Dechasa Angecha Habtamu Gujabayu 	Assessment of Possible Intellectual Property Protection Options of Traditional Knowledge System in Ethiopia	Ethiopia	Commissioned
CP0209/05	Lebese Lekholoane	<ol style="list-style-type: none"> Pitso Masupha Thlako Mokhorro Maseqobela Williams Ileketseng Tjokotsi Sekoja Phakisi Lefa Thamae Mamolise Falatsa 	The Impact of Intellectual Property Rights and Multi-Media on Acquiring and Managing Traditional Knowledge Systems	Lesotho	Commissioned
AGRICULTURAL INNOVATIONS FOR CLIMATE CHANGE ADAPTATION AND FOOD SECURITY IN AFRICA (CP0309) – REGIONAL GRANTS					
CP0309/01	Agwu Agwu Ekwe	<ol style="list-style-type: none"> Mr. Festus Amadu (Sierra Leone) Mr. Mustapha Sawi (Liberia) 	Agricultural Innovations for Climate Change Adaptation and Food Security in West Africa: The Case of Nigeria, Ghana and Sierra Leone	Nigeria, Liberia & Sierra Leone	Commissioned
CP0309/08	Akon -Yamga Gordon	<ol style="list-style-type: none"> Paul Boadu (Ghana) Joyce Amoako (Ghana) Beatrice Darko Obiri (Ghana) Fatou Janha Mboob (The Gambia) 	Agricultural Innovations for Climate Change Adaptation and Food Security in Africa: The Perspective of Ghana and The Gambia	Ghana & The Gambia	Commissioned
CP0309/11	Ngho Siri Bella	<ol style="list-style-type: none"> Matany George Teke Sylvester Ndeso Atanga 	Agricultural innovations for climate change adaptation and food security in Central Africa: The case of Cameroon, Central African Republic and Equatorial Guinea	Cameroon, Central African Republic & Equatorial Guinea	Commissioned