



African Technology Policy Studies Network

ANNUAL REPORT 2008

Science, Technology and Innovations
for African Development



Inside



- 4 List of Acronyms
- 5 Board of Directors
- 7 Chairperson's Message
- 9 Executive Director's Message
- 11 ATPS Governance
- 13 ISEE Conference 2008
- 16 Pan-Africa Stakeholder Policy Forum
- 19 Research and Capacity Building
- 27 Youth and Gender Empowerment Program
- 31 STI Training and Sensitization
- 36 Science Communication and Stakeholder Dialogue
- 43 Publications
- 45 Partnerships
- 49 Annexes

List of Acronyms

ABSF	African Biotechnology Stakeholders Forum	NETWAS	Network for Water and Sanitation
ACTS	African Centre for Technology Studies	NGOs	Non Governmental Organizations
AGM	Annual General Meeting	NIS	National Innovation Systems
ALD	Agriculture-led development	NUBSA	Nairobi University Biochemistry Students Association
ASEE	African Society for Ecological Economics	NUL	National University of Lesotho
ASTI	Agricultural Science, Technology and Innovation	OPEC	Organization of the Petroleum Exporting Countries
ATPS	African Technology Policy Studies Network	RPS	Research Paper Series
AWLAE	African Women Leaders in Agriculture and Environment	RUFORUM	Regional Universities Forum for Capacity Building in Agriculture
AYFST	African Youths Forum for Science and Technology	S&T	Science and Technology
BTA	Biotechnology Trust Africa	SADC	Southern African Development Community
CTA	Technical Centre for Agricultural and Rural Cooperation	SIDA/SAREC	Swedish International Development Cooperation/ Department for Research Cooperation
ECOWAS	Economic Community of West African States	SIR	Société Ivoirienne de Raffinage
EML	Einstein Minds Lesotho	SMC	Secretariat Management Committee
ESRI	Economic and Social Research Institute	SPS	Special Paper Series
ERS-WEC	Economic Recovery Strategy for Wealth and Employment Creation	SSA	Sub-Saharan Africa
EU	European Union	STI	Science, Technology and Innovation
FARA	Forum for Agricultural Research in Africa	SWOT	Strengths, Weaknesses, Opportunities and Threats
GHA	Great Lakes and Horn of Africa	UCT	University of Cape Town
HIV/AIDS	Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome	UDS	University for Development Studies
ICRISAT	International Crops Research Institute for Semi-Arid Tropics	UNCST	Uganda National Council for Science and Technology
ICT	Information and Communication Technology	UNDP	United Nations Development Programme
IDRC	International Development Research Centre	UNESCO	United Nations Educational, Scientific and Cultural Organization
IK	Indigenous Knowledge	UNICEF	United Nations Children's Fund
IPCC	Inter-Governmental Panel on Climate Change	UNISA	University of South Africa
ILRI	International Livestock Research Institute	UON	University of Nairobi
ISEE	International Society for Ecological Economics	UWC	University of the Western Cape
ISO	International Organization for Standardization	UYASTI	Uganda Youth Association of Science and Technology Innovation
KARI	Kenya Agricultural Research Institute	W&E	Water and Environment
KIU	Kampala International University	WWF	World Wildlife Fund
MDGs	Millennium Development Goals	WPS	Working Paper Series
MTESO	Media and Technology Society	YADSTI	Youth Agency for Development of Science Technology and Innovations
MUBS	Makerere University Business School		
NEMA	National Environmental Management Authority		
NEPAD	New Partnership for Africa's Development		

Board of Directors

Prof Norah Olembo

Dr Kevin Urama

Prof Lynn Mytelka

Prof Oyebanji Oyeyinka



Prof Oliver Saasa

Prof Turner Issoun

Prof Sam Wangwe

Prof Sir Brian Heap

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 & policies) today for sustainable African development tomorrow.

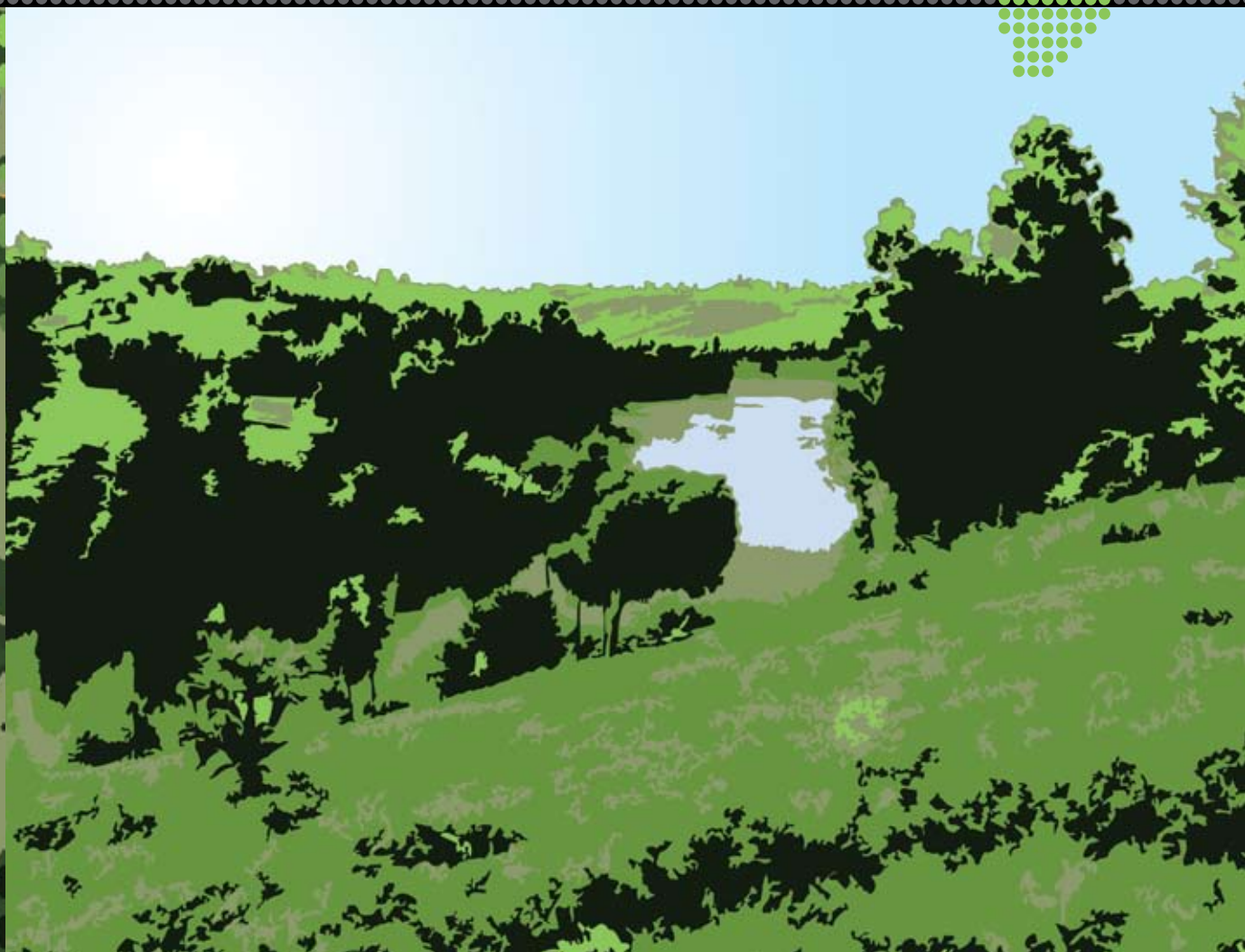
The ATPS Water and Environment program enhanced the STI capacity of many African stakeholders to respond to the challenges of sustainable management of water and the environment



THE YEAR
IN REVIEW



Science, Technology and Innovations
for African Development



The Chairperson's Message

This year marked the beginning of implementation of the African Technology Policy Studies Network (ATPS) Phase VI Strategic Plan 2008-2012. The strategy saw a greater emphasis on social and economic development and an accompanying growing focus on building the capacity of women and youth to engage in science, technology and innovation (STI) policy research and dialogue. At ATPS it is people who count, hence, the new strategy adopts a people-centred approach to STI as a means to sustainable development in Africa.

The strategy also recognises the need for a shift from emergency, piecemeal interventions to strengthening research and evidence based policy development. For example, quite often, agencies wait to see stark images of starving children and widespread decimation of livestock before they are jolted into action, yet drought is a recurrent phenomenon in many parts of Africa. All too often the focus is on immediate provision of food at the expense of seeking permanent solutions to the problem. Emergency food aid interventions, while critical for immediate survival, should not supersede investment in small scale agriculture, which in Africa is the main source of livelihood for most households. Nor should they overshadow environmental conservation programmes which contribute towards sustainable development. Indeed there is a need to strike a delicate balance between short-term needs and long-term investments.

The strategy places a huge emphasis on local knowledge and homegrown solutions, we believe in empowering local researchers whose expertise will remain behind long after particular programmes complete their life-cycle. Since its inception, ATPS has undergone several transitions and transformations as the network seeks to address the dynamic STI challenges facing the continent. We have metamorphosed from being a Secretariat under the IDRC to an independent African Network of Africans for African development. October 2000 marked the transition of ATPS into an independent and sustainable African Network with international reach and influence. On the 3rd day of December 2003, we signed a Host Country Agreement with the government of the Republic of Kenya which accorded ATPS full Diplomatic status in the Republic of Kenya.

Since then, ATPS has registered significant achievements in mainstreaming science, technology and innovation in Africa for African development. Although we are continually presented with unique social, economic, political and environmental challenges, ATPS has adapted means of overcoming these challenges. As the Executive Director, Dr Uruma often puts it, "we need to start turning challenges into opportunities for the kind of change that would make the difference in Africa's development struggle". We have maintained a positive mindset in the strong belief and resolve to "build Africa's science, technology and innovation capacity today, for sustainable development tomorrow". ➤



"At ATPS it is people who count; hence the new strategy adopts a people-centred approach to science, technology and innovation as a means to sustainable development in Africa."



We have seen significant improvement in the STI capacity of African scientists, decision makers, and young people who participate in ATPS programs. Moving away from “focal points,” we have also seen the establishment of national chapters in 23 African countries, under the leadership of our able national coordinators. Indeed the establishment of national chapters for effective policy research prioritisation, results dissemination stakeholder engagement and advocacy remains a unique feature of the ATPS Network.

We have supported over 209 thematic and non-thematic (facilitative) STI policy research, training and capacity building activities in over 23 African countries and facilitated STI policy development in several countries. The most recent is the STI policy of the Kingdom of Lesotho which was published in 2007. We will continue to build capacities in the area of STI policy formulation, policy implementation and policy practice in Africa. We have also established platforms for young Africans and women to build capacity in STI policy research and engage in the policy dialogue. The African Youth Forum for Science and Technology (AYFST) remains one of my most cherished activities of the ATPS. The future is in the hands of the youths and the initiative to “catch them young” is a laudable one.

There is now widespread consensus on the need for increased donor financing for Science, Technology and Innovation (STI) programmes in Africa. However the leadership must come from African Governments and civil society. Gone are the days when donor interests dictated Africa’s development agenda. It is also about time African Governments showed their commitment towards investing in Science and Technology (S&T) as a means to achieving the UN Millennium Development Goals, by increasing their budget allocations for it, no matter how modest their spending plans.

It is important to add, that effective investment in STI goes beyond isolated funding of infrastructure projects. Building state of the art laboratories and research facilities, though important, is not the ultimate solution to Africa’s problems. The challenge remains inculcating an appreciation of the role of science in sustainable growth throughout all spheres of Government, in education systems and in key decision making organs. It involves developing a science-friendly regulatory and fiscal framework which promotes innovation for sustainable growth.

I believe ATPS has made massive strides in building a truly African science research knowledge hub. As I step down as chair of the ATPS Board of Directors, I am confident that the contribution ATPS is making is on an upward spiral in making a real and lasting impact on the lives of communities all over Africa.

To all our donors, I would like to thank you for the confidence bestowed upon us and for entrusting us with the necessary support to pursue the huge responsibility of furthering STI policy research and policy practice in Africa. Through your unrelenting support, our programmes continue to make a real and lasting impact in the fight against poverty in Africa. As the organisation moves on to the next leg of its journey, I have every confidence that ATPS will continue this leadership under the leadership and direction of Professor Sam Wangwe, who takes over the mantle as the Chairman of the Board and Dr Kevin Urama, our Executive Director. I have every faith in their leadership and I will remain an active member of the ATPS Kenyan Chapter and continue to support STI capacity building activities planned under the new strategic plan ■

I wish you Godspeed,

Prof. Norah Olembo
Chair, ATPS Board



The Executive Director's Message

My first full year as Executive Director of the African Technology Policy Studies Network (ATPS) has been both busy and exciting. If I had to sum up the year in one word, it would be “eventful.” New challenges have come our way in at both global and continental scales. The year saw phenomenal rise in food and energy prices, exacerbation of climate change impacts on many African countries and the deepening of the global financial crisis. Together these deepened the incidences of poverty, poor health conditions, water scarcity, depletion of biodiversity and natural ecosystem resources on the continent. Invariably, these increased Africa's challenge of attaining the UN Millennium Development Goals and national development targets set by many countries for the reporting period. Despite these and other institutional challenges, ATPS has continued to make positive changes in the lives of communities through building science technology and innovation (STI) capacity today for sustainable development tomorrow. The significant reform of the ATPS institutional governance procedures carried out during the year has also further positioned the ATPS as the Pan-African Centre of Excellence and reference for STI policy research and policy practice on the continent. The core approaches of trans-disciplinarity, systems thinking and innovation through collaboration espoused by the ATPS during the period has led to significant strengthening of the existing STI knowledge clusters in Africa and beyond. There is an air of optimism that Africa will adapt to increasing climatic changes and weather the global financial storm through Science, technology and Innovation.



“We understand that what Africa needs is not charity, but a chance to develop its own entrepreneurial and industrial capacity through science technology and innovation. Our comparative advantage stems from the recognition that the way out poverty in Africa lies in creating opportunities for people to reap the socioeconomic benefit of STI.”

The year 2008 saw the launch of the ATPS Phase VI Strategic Plan, 2008 – 2012. The five year Strategic Plan which was commenced on January 2008, has adopted a forward looking and ambitious agenda. During the implementation of the ATPS Phase VI Plan, ATPS will continue to close the loop through four interrelated functions:

1. **Knowledge Generation** (Research & Training);
2. **Knowledge Brokerage** (Stakeholder Dialogue, Knowledge Circulation and Networking);
3. **Knowledge Dissemination & Outreach** (Publications, STI Journalism, Policy Advocacy);
4. **Knowledge Valorization** – (Innovation Incubation and Challenge Programs, etc).

The achievements in this annual report illustrate the first steps taken by the ATPS to bridge the science, technology and innovation policy gaps in Africa during the Phase Vi implementation period. The stories paint a vivid picture of how ATPS builds effective bridges between the quadruple helix: the research communities, the governance sectors, the private sectors and the civil society to enhance innovation capacities and cultures for African development. It is our firm belief that Africa can address its development challenges in a changing global knowledge economy through home grown STI capacities in Africa, by Africans for African development. The requisite skills, knowledge structures and natural resources required to leapfrog development in Africa abounds, but the continent is still mired in poverty due to lack of capacity in science, technology and innovation on the one hand, and lack of coordination, cooperation and collaboration amongst the different actors in the quadruple helix. The ATPS has therefore worked with its partners to build innovation through collaboration during the year ended and will continue to do so in the coming years.

ATPS is continuously evolving its programs to take advantage of emerging challenges of climate change, global economic meltdown and poverty as new opportunities for mainstreaming STI in the fabrics of development policy planning in Africa. These challenges are mutually exacerbating and ad hoc measures to address them unilaterally, through, for instance, economic incentives will lead to unsustainable solutions, and hence cause further shocks in the global system of innovation. The ATPS has therefore continued to respond to these challenges through trans-disciplinary and systems approaches to STI policy planning and advocacy. The year therefore saw the commencement of the initial consultations for the launch of the initiative to develop a manifesto for science, technology and innovation for Africans, by Africa, in Africans by the ATPS and its partners in Africa, Europe and India. The manifesto would document the African voice regarding the core principles and procedures for STI in Africa that will be fully embedded in African histories, its cultures and socio-ecological realities. ➤



In other words, it will create a vision for full democratic governance and socialization of STI for Africa, in Africa, by Africans. As scientific and technological research and research ethics continue to undergo various forms of socialization in the growing global knowledge economy, the ATPS believes that the only way to develop Africa is to help African countries build robust institutions and governance structures, and also build a critical mass of expertise in STI. African countries must wake up to the challenge of advancing their own context specific research and policy agenda while taking into cognizance the fast growing global knowledge economy. We must learn to learn from the experiences of those who have gone the way of development before us, and learn to share and celebrate the many good practice and achievements recorded on the continent in the past decade. As the saying goes, "he, who started cooking before you, will have more broken pots". We must therefore learn not to re-invent the wheels of development and at the same time, build sustainable platforms for innovation on the continent. We must learn to upscale tacit knowledge held by our communities and add value to them through proper codification and establishment of relevant knowledge appropriation strategies.

Our work through national chapters in 23 countries has helped define and prioritize local research and policy priorities, and in liaison with relevant stakeholders, build dynamic response strategies. With an expansion plan in place to cover the entire sub-Saharan Africa by 2012, the ATPS Phase VI Strategy places emphasis on measures to build on the capacities of the existing National Chapters to inform and influence STI policy in the respective countries and at the continental level. The reforms carried out in 2008 have identified specific measures to strengthen the linkages with and involvement of key STI regional institutions and national government agencies in the work of the ATPS. Measures to strengthen collaboration with and support to the African Union's New Partnership for African Development (AU/NEPAD) initiatives on science, technology and innovation as well as other regional and pan-African initiatives have been mapped out.

We understand that what Africa needs is not charity, but support to develop its own governance, entrepreneurial and industrial capacity through science technology and innovation. Our comparative advantage stems from the recognition that the way out poverty in Africa lies in creating opportunities for people to reap the socioeconomic benefits of STI. We also understand that in Africa's complex realities, unidirectional efforts to address Africa's multi-faceted development challenges without building a critical mass in STI for development may be unsuccessful. I therefore call on African Governments and our Development Partners to kindly support our efforts to build STI Capacity today for sustainable African development tomorrow.

As countries grapple with the effects of the global financial crisis, there is an unprecedented need for renewed commitment to strengthening STI capacities in Africa. The effects of the financial crisis will no doubt continue to exert pressure on African Governments in 2009 and in the short and medium terms. ActionAid predicts that African economies will lose up to 49 billion dollars by the end of 2009. This shock to the already fragile economies and ecosystems in African countries may have significant domino effects on global sustainability through deforestation, biodiversity loss, increased poverty and resource wars, insecurity etc. With the financial crisis expected to reduce Development Aid and grants for STI programs, there is a real risk that the few advances already made in some African counties through STI capacity building over the recent years, might be jeopardized. I would therefore like to call upon our donors and friends not to waver in their support for our STI capacity building programs especially during this time of financial stagnation. There is still a lot of ground to be covered and if we continue working together we can contribute to sustainable development in Africa for the collective good of our ailing planet.

This report presents a summary of the STI capacity building activities and financial statements of the ATPS Secretariat for the period January 1, 2008 to December 31, 2008. It highlights some of the successes stories and also some of the inevitable challenges we shared during the year ended, 2008. It is also a means of presenting a consolidated brief report and account statements to our many donors, members and stakeholders on how we raised and spent the funds that were entrusted to ATPS in the year 2008. In 2009/10, I look forward to working with you to build on the foundations laid in the past year to deliver on our core strategic goal: "building Africa's STI capacity today for sustainable development tomorrow ■

YES WE CAN

Dr Kevin Urama,
Executive Director, ATPS

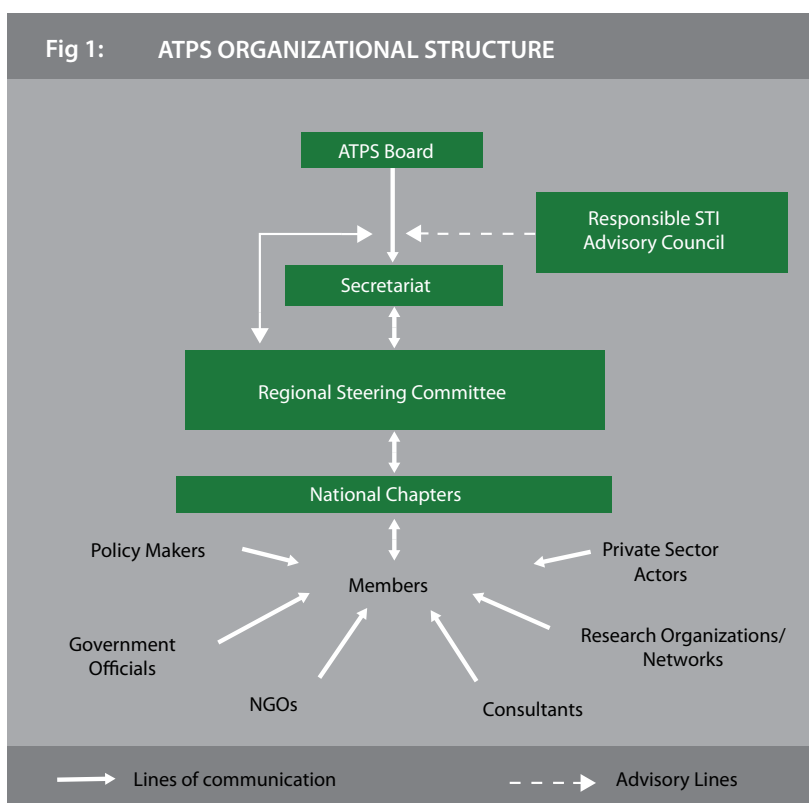
ATPS Governance

This year, the ATPS carried out significant reforms in its governance structures during the reporting period, following a number participatory reflective processes carried out in 2007 as part of the ATPS Phase VI, 2008 – 2011 Strategic Planning processes February 2007 – December 2007 and subsequent implementation planning meetings with the ATPS Board, national coordinators and stakeholders, January 2008 – July 2008. Amongst the key participatory activities were the regional secretariat SWOT analyses carried out in Nairobi, Kenya, 22 June 2007; the national chapters SWOT analyses carried out in Johannesburg, 21 November 2007 ; and the ATPS annual conference and Annual General Meeting held in Johannesburg, 19 – 21 November, 2008. All these activities were facilitated by an independent Consultant; Dialogue Matters UK.

Significant amongst the strategic plan implementation planning meetings include a consultation meeting held with the ATPS National Chapter Coordinators' Steering Committee in Arusha Tanzania, 13 March 2008; an ATPS Phase VI Strategic Plan Implementation Planning Meetings held with the ATPS National Chapter Coordinators' Steering Committee, the ATPS Board and key stakeholders in Nairobi Kenya, 19 July 2008; associated decisions of the 13th and 14th ATPS Board meetings held in Johannesburg, South Africa, 21 November 2008 and in Nairobi, Kenya, 17-18 July 2008, respectively; and subsequent follow-up consultations with ATPS stakeholders internationally. Overall, the outcomes of these participatory consultation processes

has helped the ATPS Network to consolidate on the many significant gains achieved during the ATPS Phase V, 2004 – 2007 and address the weaknesses of the Network as identified by the Network stakeholders, to set a sustainable platform for the implementation of the ATPS Phase VI Strategic Plan, going forward. The outcomes of these consultations and subsequent Board decisions led to significant reforms in the ATPS Governance Structures (at the Board, Secretariat and National Chapter levels). The governance reform is an ongoing activity and will continue in 2009. From these reforms, ATPS adopted a new governance structure for the network (see Figure 1 below). ➤

Fig 1: ATPS ORGANIZATIONAL STRUCTURE





The new ATPS governance structure comprises of the Board, with board committees (see figure 2) dedicated to providing proactive direction and supervision of the ATPS activities according to members special skills and experiences; a Regional Secretariat with a less hierarchical line management structure – managed by a Secretariat Management Committee (SMC); an STI Advisory Council with the responsibility of providing independent strategic review and advice on the strategic program implementation and quality of outputs of ATPS activities; a National Coordinators' Regional Steering Committee responsible for liaising with the ATPS Secretariat in regional coordination and supervision of ATPS activities; the National Chapter Coordinators who supervise all national level activities and the general membership. Details of the new Governance Structure of the Network can be found on the ATPS website (see <http://www.atpsnet.org/about/structure.html>).

Amongst the significant structural changes in the ATPS governance during the year was the election of Prof. Samuel Wangwe as the New Chair of the ATPS Board following the ATPS 14th Board meeting held on 17 – 19



Prof Wangwe the Chair Elect of the Board

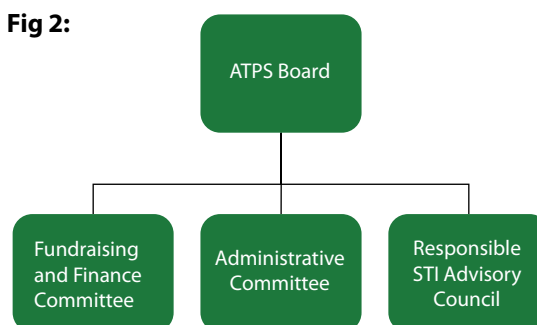
July 2008. Prof. Norah Olembo continues to serve as Chair of the ATPS Board until the 15th ATPS Board meeting is

held. Prof. Samuel Wangwe is a Professor of Economics, a former ATPS researcher who is an expert in policy analyses, STI for development. He is a Senior Associate with the Economic & Social Research Foundation, Dar es Salaam, Tanzania.

Other significant changes in the governance of the Network during the year include the appointment of Prof. Oyebanji Oyeyinka, Director, Monitoring & Research Division UN-HABITAT as a Board member following the 14th Board meeting. This brought the number of sitting active Board of Governors of the ATPS to eight, excluding the Executive Director who is an ex Officio Member and Secretary to the Board. The ATPS Secretariat has also appointed a new Research and Training Manager, Dr. Catherine Adeya Weya, and a new Acting Finance and Administration Manager, Mr. Richard Muriuki.

In effect, the ATPS has a brand new management regime both at the Board, and Regional Secretariat levels. The management structure is also significantly reformed to address weaknesses identified by stakeholders, by adopting a less hierarchical network model that encourages active participation by all arms of the ATPS in moving forward the strategic goals of the ATPS Phase VI Strategic Plan ■

Fig 2:



Operational Structure of ATPS Board



ISEE 2008 NAIROBI

Applying Ecological
Economics for Social and
Environmental Sustainability



**Science, Technology and Innovations
for African Development**



Applying Ecological Economics for Social and Environmental Sustainability

ISEE 2008 CONFERENCE



Kenya's Prime Minister, the Rt. Hon. Raila Odinga addresses delegates during the conference

ATPS secured a Memorandum of Understanding (MOU) with the International Society of Ecological Economics (ISEE) as the conference management coordinator of the Tenth Biennial ISEE Conference titled "ISEE 2008 Nairobi: Applying Ecological Economics for Social and Environmental Sustainability".

The conference, co-hosted by ISEE, United Nations Environment Programme (UNEP) and African Society of Ecological Economics (ASEE) and coordinated by ATPS was held at the United Nations (UN) Complex in Gigiri, Nairobi from 7-11 August 2008. It was attended by over 250 delegates from Africa, America, Asia, South America, Canada, and Australia. The participants included some Nobel Prize winners and outstanding international experts in the field of ecological and environmental economics, environmental governance, and economic development planning. The conference highlighted the vision, methods and policy adjustments needed for ecological economics principles to be applied to the design and management of environmentally and socially sustainable development processes.

Kenya's Prime Minister, the Rt. Hon. Raila Odinga, was the key guest at the conference. In his welcome address, Rt.

Hon. Odinga described the conference as timely in an era where Kenya, and the world in general, is experiencing unprecedented levels of high food prices, coupled with skyrocketing costs of energy. He appreciated the role of Dr. Urama, ATPS Executive Director in organizing the conference, and thanked ISEE/ASEE/UNEP for hosting the conference in Kenya.

Other important dignitaries who gave opening addresses and key note papers at the conference includes: Ms. Angela Crooper, UNEP Deputy Executive Director/United Nations Assistant Secretary General, Dr. Kevin Urama, Executive Director of ATPS and President of ASEE, Prof. Peter May, President of ISEE, Prof. Arjen Y. Hoekstra (University of Twente, the Netherlands); Dr. Zhu Dajian (Tongji University, Shanghai, China); Prof. Helga Weisz (Klagenfurt University, Vienna, Austria); Prof. Marina Fisher-Kowalski (Klagenfurt University, Vienna); Prof. William Beinart (University of Oxford, UK); Prof. Charles O. Okidi, (University of Nairobi, Kenya). The closing ceremony of the conference was attended by Hon. Jackson K Kiptanui, the Assistant Minister for Environment and Mineral Resources in Kenya.

As an outcome of the conference, Prof. Peter May, President of the International Society for Ecological Economics (ISEE) visited the ATPS Offices where he called upon renewed and strengthened collaboration between the ATPS, ASEE and ISEE. Dr. Urama, is working with Prof. May (ISEE President) and Anantha Duraipappah (UNEP) to publish a book volume from the conference. The event marked the beginning of ATPS' engagement in hosting global conferences on key global challenges that will attract key experts from all continents. The event also successfully launched the ATPS to the global scene in the areas of ecological and environmental management, a necessary partner in disseminating the outputs of the ATPS water and Environment program internationally ■

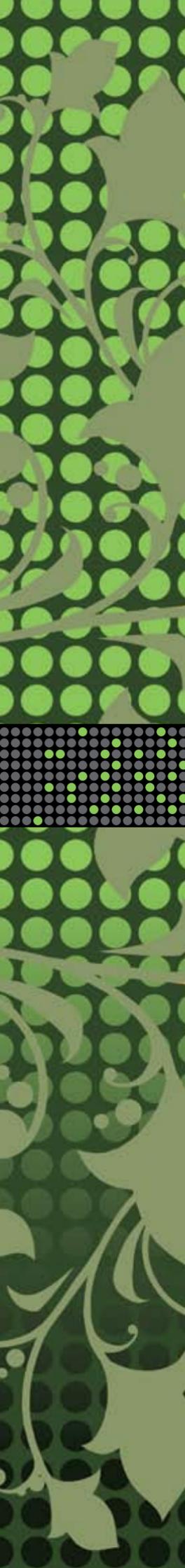
“If we make positive changes in the way we manage our world today, we can ensure sustainable ecosystem services tomorrow.”

Dr Kevin Urama, Executive Director ATPS and President of ASEE



“The challenge of the Millennium Development Goals (MDGs) requires a development path that enhances a harmonious social, economic and environment sustainability. Africa’s rich and long history as the cradle of civilization, conflicts and poverty, contextualizes the need for sustainable development discourse in the continent. This is necessary in order to find efficient and equitable ways the growing human populations can live sustainable from and with the natural resource bounty of our environment and at peace with our fellows. The 10th Biennial conference of the ISEE provide a platform for dialogue on how best Africa and the rest of the world can achieve this goal.”

Dr Kevin Urama, Executive Director ATPS and President of ASEE



PAN-AFRICA STAKEHOLDER
POLICY FORUM 2008 -
ARUSHA, TANZANIA

Mara River; the stakeholders' forum brought the project one step closer in its aim of promoting sustainable and integrated management of water resources, biodiversity and livelihoods in the Mara river basin of Kenya and Tanzania

Science, Technology and Innovations
for African Development



Towards an Integrated Trans-boundary River management Policy Development in Semi-Arid River Basins

PAN-AFRICA STAKEHOLDER POLICY FORUM 2008 - ARUSHA



Dr Angela Pereira, European Commission Joint Research Council, Italy, addresses African Water stakeholders in Arusha, Tanzania (12 March 2008)

The ATPS hosted a pan-Africa stakeholder policy forum in Arusha Tanzania, from 12 – 14th March 2008, in collaboration with its project partners, the Macaulay Institute and the Tanzania National Parks (TANAPA). The workshop was held as part of the objectives of the European Commission (EC) funded Integrated Trans-boundary River Management Policy Development project - INTREPID. The Project which came to an end in 2008 is covered in detail elsewhere in this report. The workshop which brought together 50 delegates from 13 countries, brainstormed on existing research and policy gaps as well as the nexus between conservation of biodiversity, water management, and livelihoods in semi-arid river basins, using the Mara river basin as a case study. The objectives of forum were to:

- Fill in the gaps in the interactive web-hosted database by accessing unpublished and stakeholder knowledge
- Encourage networking and collaboration with local stakeholders, non-governmental organizations (NGOs), and responsible authorities in the Mara River Basin
- Disseminate good practice in integrated water resources management (IWRM), Convention of Biological Diversity (CBD) and sustainable livelihood (SL) projects, management directives and policy initiatives in the Mara River

- Identify gaps in knowledge that need further research
- Document the findings from the forum in a policy brief, which will be distributed widely to encourage a more coordinated approach to managing water catchments, biodiversity and livelihoods in the Mara River Basin and elsewhere.

The aim of the INTREPID project was to promote and support inter-disciplinary networking and collaboration to develop strategic policy initiatives for the sustainable and integrated management of water resources, biodiversity and livelihoods in the Mara river basin of Kenya and Tanzania. During her opening remarks, Dr Pereira of the European Commission Joint Research Council, Italy said that besides funding the project, the EC had significant interest in enhancing international cooperation and opening up EU research to the world through mutual synergies that are beneficial to the European member states and EC programme's target countries. As a result, the INTERPID project also sought to address key objectives under the EC's "International cooperation with developing countries" (INCO-DEV) thematic programme. These include:

- Rational use of natural resources.
- Managing arid and semi-arid ecosystems.
- Sustainable, integrated water resource management (IWRM) at river basin scale. ➤



The stakeholder policy forum adopted a two-phased dynamic participatory process to encourage networking and collaboration with local stakeholders, NGOs, and responsible authorities in the Mara River Basin and elsewhere. The first phase involved plenary sessions for the presentation of overall project objectives, desired outputs and policy outcomes of the forum; understanding the concepts and sharing good practice in Africa and internationally; and integrating the generic web-hosted database resource developed by the project. Each plenary session was followed by a short brainstorming session to fill in existing knowledge gaps and address questions arising from the presentations.

The second phase involved a series of facilitated participatory sessions to engage participants in synthesizing the lessons learned and the potential conflicts between theory and practice, existing policies, projects and management initiatives, as well as the potentials for sustainable implementation of an integrated trans-boundary river management policy in the Mara river basin.

It was expected that the forum would lead to better understanding of the potential linkages, conflicts and complementarities amongst existing integrated water resources management (IWRM), conservation of livelihoods (CBD) and sustainable livelihoods (SL) projects, management directives and policy initiatives in the Mara River Basin and implications for sustainable management of the catchment's water and biological resources for poverty alleviation in Kenya and Tanzania, and perhaps elsewhere. In stating why the integrated approach is critical, Dr Urama noted that often initiatives proceed on sector defined goals and objectives

with little attention given to the domino effects on other sectors and/or ecosystem components.

Fig 3

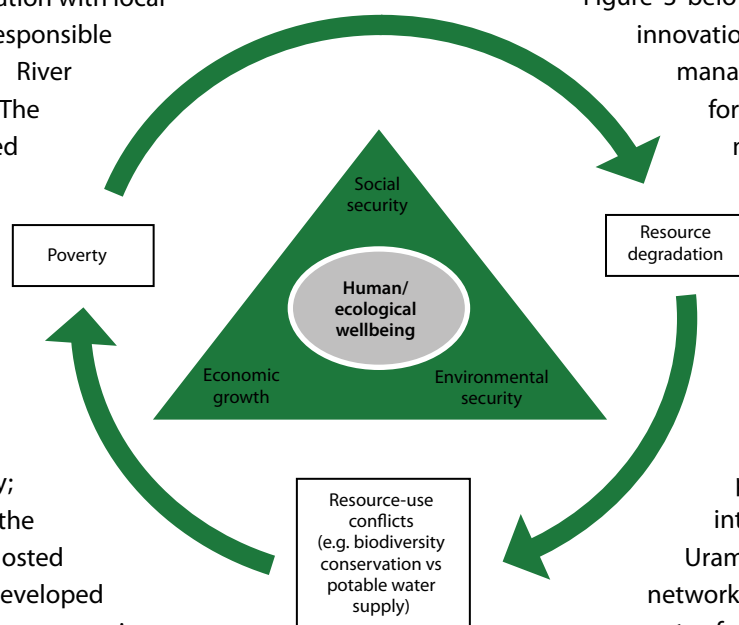


Figure 3 below illustrates how a holistic innovation systems approach to managing ecosystems. The forum agreed that while moving from concepts and policy statements to actual implementation remains a challenge, publications in popular media, policy advocacy, and stakeholder engagement could go a long way to ensure proper implementation of integrated management. Dr Urama explained that promoting networking in communicating the concept of integrated trans-boundary river management is one of the central aims of the INTREPID project.

The project produced four key policy relevant outputs including:

- Published proceedings of the stakeholder policy forum: "Towards an Integrated Trans-boundary River management Policy Development in Semi-Arid River Basins" see <http://www.atpsnet.org/pubs/workshop/Proceedings%20Intrepid.pdf> and also on http://www.macauley.ac.uk/INTREPID/INTREPID_Proceedings_Report_July_2008.pdf
- A policy brief: "Bordering on a water crisis: the Need for Integrated Resources Management in the Mara River Basin, see <http://www.macauley.ac.uk/INTREPID/PolicyBrief.pdf>;
- An article on the eStrategies Magazine published by British Publishers and distributed to over 39,000 across Europe and Africa, See <http://www.atpsnet.org/pubs/research/estrategiesarticle.pdf>, and
- Establishment of a web-hosted, interactive database resource for coordinating information on IWRM, CBD and SL in the Mara river basin, see <http://www.macauley.ac.uk/INTREPID> ■

Fig. 3: Vicious cycle of natural resources degradation and human impoverishment

“ ATPS is an STI knowledge network focusing on development of STI capacity for African Development. The key concern of the ATPS Research and Capacity Building Program will be on closing 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. ”

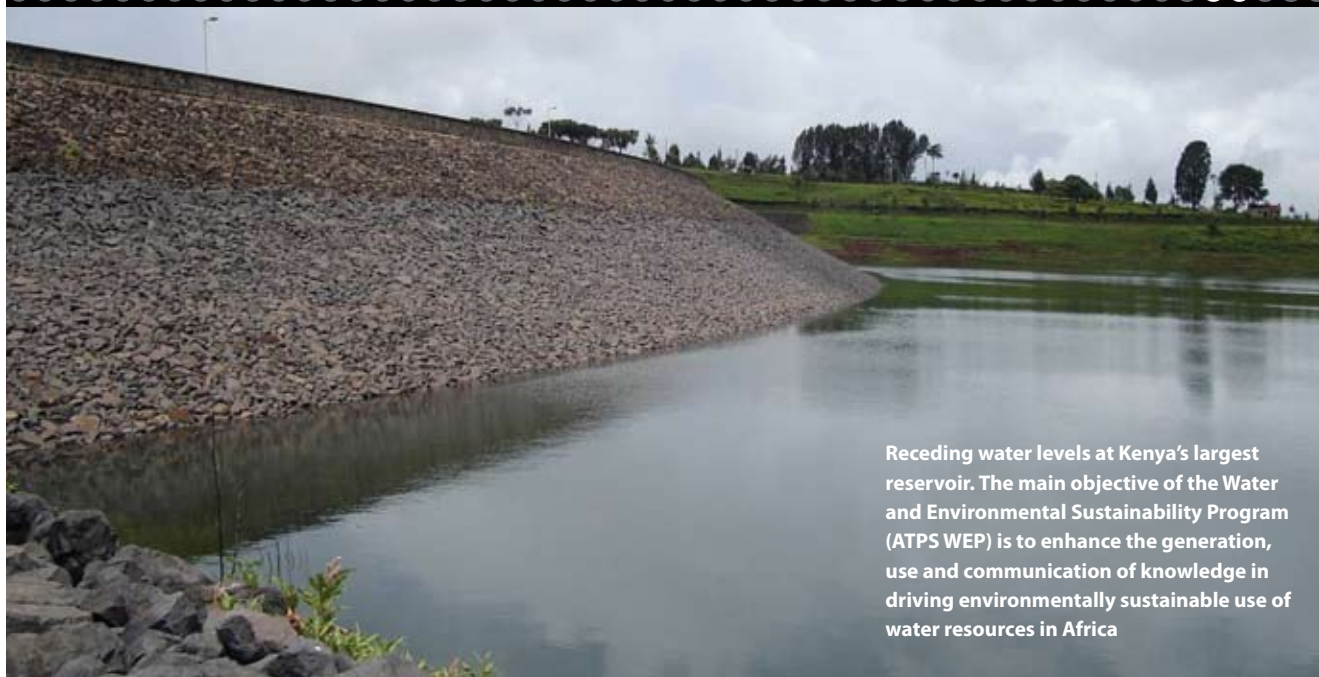
RESEARCH AND CAPACITY BUILDING



**Science, Technology and Innovations
for African Development**



Research and Capacity Building



Receding water levels at Kenya's largest reservoir. The main objective of the Water and Environmental Sustainability Program (ATPS WEP) is to enhance the generation, use and communication of knowledge in driving environmentally sustainable use of water resources in Africa

ATPS programmatic focus is motivated by its mission to support research in science, technology and innovation (STI) studies, building Africa's capacity for STI research and policy analysis, and translation of S&T to innovations for development. The goal of the ATPS research programs does not focus on traditional Research and Development (R&D) per se, but rather on the application of science (both tacit knowledge and codified) knowledge in addressing practical development challenges in Africa, especially in areas where knowledge gaps exist. The ATPS thematic research programs therefore focus on the development and use of technologies (both indigenous and orthodox) to address practical development problems in Africa, including poverty alleviation, food security, water and environmental management, biodiversity conservation and development infrastructures. The thematic research programs therefore focus on knowledge generation and knowledge circulation,

knowledge basis and infrastructure, knowledge circulation and networks, knowledge conditions and policies around the application of new and emerging technologies such as biotechnology and bioethics, nanoscience, nanotechnology and nanoethics, ICTs, for African development, and building national systems of innovation in Africa.

The key concern of the ATPS Research and Research Capacity Building Program 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, including climate change, water and environmental management, biodiversity conservation, agriculture, and small scale industries, health, etc. This concern is derived from the evolution of Africa's development challenges as articulated in the Millennium Development Goals



(MDGs), the resolutions of World Summit on Sustainable Development (2002), the NEPAD framework and the belief that bridging the knowledge and technological gap between Africa and the rest of the world is the key to Africa's global inclusion and prosperity. The thematic research programs carried out during the period are described briefly below:

1.0 ATPS Water and Environmental Sustainability Program (ATPS WEP), 2004 – 2008

In 2008, the ATPS continued to take forward planned STI research capacity building activities under the auspices of its Water and Environment Program funded by the Dutch Government and other donors. The main objective of the program is to enhance the generation, use and communication of knowledge in driving environmentally sustainable use of water resources in Africa. Pursuant to the main objective, ATPS brokers and enhances the use of knowledge from partners within and outside Africa in meeting Africa's and NEPAD goals, and Millennium Development Goal 7 to attain environmental sustainability in sub-Saharan Africa (SSA). The program was coordinated by Dr. Kevin Urama, Executive Director of ATPS. The specific objectives are:

- to improve water management and conservation for poverty reduction;
- to enhance the capability of the water and sanitation governance and delivery institutions in meeting their service delivery objectives in selected key countries;
- to induce attitudinal and behavioral changes with respect to sustainable water and environmental management at various levels;
- to harmonize national and regional water acts and environmental acts/policies to avert potential cross-border conflict;
- to enhance knowledge exchange and collaboration between the different water stakeholders' in Africa; and
- to generate new knowledge and build capacity for efficient water management.

The program emphasizes knowledge sharing at various levels primarily through:

- Joint research, training activities and deliberative

workshops between African researchers, relevant government institutions and responsible water management authorities and international researchers/institutions involved in sustainable water catchments management; and

- Stakeholder and public participation events to share existing and new knowledge among researchers, government agencies and the public to encourage ownership of technology policies that result from the research and participatory exercises.

The reporting period saw the completion of the ATPS Water and Environment Program which started in 2004. The program involved commissioned small grants case studies on various water and environmental management issues in 9 African countries, regional collaborative baseline studies in 5 African countries, and policy gap analysis studies in the three main regional blocks of Africa: the ECOWAS, the SADC and the Great Lakes and Horn of Africa. Details of the commissioned studies under this program can be found in the ATPS Annual report, 2007 (see <http://www.atpsnet.org/pubs/annualreport/ATPSAnnualReport-2007.pdf>) The specific activities carried out under the ATPS WEP are briefly discussed below:

1.1 Small Grants Case Studies:

The ATPS Secretariat liaised with the researchers to complete the editing and publication of many research reports under the auspices of the ATPS publication series. The ATPS Secretariat also continued to follow up with the researchers to process their case study reports for publications in international journals. Some of submissions made by the Small grants researchers in 2007/2008 are now published in relevant journals and one is now published as a book chapter (see the section on publications). Other low cost technology for purifying waste water developed by a small grants researcher in Cote-d'Ivoire is also being followed up on for potential implementation in Abidjan. Recommendations of the Small Grants Case study in Lesotho are also being used to inform policies on Waste management in Lesotho.

1.2 Baseline Regional Studies:

Activities carried out under the baseline studies during the year includes completion of the analyses of the baseline surveys which covered 2,880 rural and urban households in 4 countries: (640 in Ghana, 640





in Cameroon, 640 in Kenya, and 960 in Nigeria). Two methodology workshops were held to achieve this goal. First a workshop was held in Arusha Tanzania, 14 – 15 March 2008 and next in Nairobi Kenya 16 – 17 July 2008. The Arusha workshop brought together the researchers from Ghana, Nigeria, and Cameroon for data cleaning, model development and preliminary analyses of the country and regional datasets. The subsequent workshop in Nairobi brought together the researchers from Kenya, Nigeria, Cameroon and Ghana for final development of the integrated value mapping models and subsequent presentation of the research results to the ATPS Board and national chapters' steering committee for final peer review and identification and prioritization of policy gaps for future interventions.

1.3 Regional Policy Review Studies

The three regional studies commissioned in July 2006 to review the existing water initiatives S&T content: learning, innovation, relevance of technology and skills transfer; poverty reduction; food security; and the attainment of MDG goal 7 and use this as a basis to advocate change and share best practices were completed during the reporting period. The review studies covered countries of the ECOWAS, Great Lakes region and the Horn of Africa, and the SADC member states. Policy briefs produced by the study teams are now under peer review.

In addition to these thematic research activities, the program also included a number of policy fora and collaborative interventions on water and environmental management issues in the continent were carried out during the year. This has included national dissemination workshops by the researchers; a lecture by the Executive Director on the outcomes of the baseline study given to responsible authorities in the Kenyan water sector (Directors, Secretaries, etc) at a training workshop organised by the Nile Basin Initiative in Mombassa on 27 – 30 August 2008. Overall, the project is seen as very successful with over 60 publications in various media including policy briefs, research papers, Newspaper articles, science cartoons, international conference presentations, and publications in international journals. More publications from the baseline study and the regional review studies are at different stages in the ATPS publications pipeline. The writing of the final donor reports on the program is ongoing and a synthesis report on the program is being drafted for publication

as a book volume "Science, Technology and Innovations for Water and Environmental Management in Africa". The ATPS Secretariat is also working with the baseline study researchers to write articles from the integrated value mapping studies for publications in international journals. Details of the Commissioned and completed projects under this program are presented in Annex 1. of this report.

2.0 ATPS Program on Strengthening Health Technology Policy in Africa (ATPS HTP), 2004 - 2008

In 2008, the ATPS continued to take forward planned STI research capacity building activities under the auspices of its Health Technology Program funded by the Dutch Government and other donors. The program aims to contribute to improved health care access and delivery in Africa by improving the quality of S&T policy through the generation and dissemination of contextually relevant knowledge.

The immediate program purpose is to contribute to increasing knowledge on the acquisition and use of technologies for the efficient management of the health care systems, to improve national, regional and global policy environments, and to empower grassroots communities and other actors in the system by providing new knowledge and building capacities on how to tap and use this new knowledge to improve healthcare access and delivery through the National Innovation Systems (NIS) framework. The program is expected to address the UN Millennium Development Goal 4 to reduce child mortality; Goal 6 to Combat HIV/AIDS, Malaria and other diseases; and Goal 8 to develop a global partnership for development. The program is being coordinated by Prof. Oyebanji Oyeyinka, Director, Monitoring & Research Division UN-HABITAT and Dr. Padmashree Gehl Sampath, Lecturer, Open University, UK. The specific objectives are to:

- strengthen policies for healthcare technology management and assessment;
- strengthen National AIDS coordinating institutions;
- reduce the incidence of HIV/AIDS through ICTs and related technologies; and
- enhance the use of pyrethrum and indigenous plants for the management of malaria.



Participants at the Mid-term progress review and methodology workshop in Nairobi, Kenya

During the reporting period, the ATPS has continued to work with the research team and the Resource Persons to conduct a Mid-term progress review and methodology workshop 16 – 18 July 2008 in Nairobi, Kenya. The workshop brought together team members from Benin, Cote d'Ivoire, Nigeria and Tanzania country teams to share the progress on their research so far, present their progress reports and receive guidance and feedback from the programme coordinators. The teams have since revised their progress reports based on the comments received from the project coordinators. A country case study from Cote d'Ivoire; *La Santé en Côte D'Ivoire, pré-étude en Vue de l'étude de Cas*, was also commissioned in 2008. The financial and technical reports from the country teams on the country case studies are expected in the first quarter of 2009.

3.0 Integrated Trans-boundary River Management Policy Development (INTREPID), 2007 - 2008

The reporting period saw the completion of the collaborative EU Framework VI Specific Support Action Project: "Integrated Transboundary River management Policy Development – INCO-CT-2007-04378-INTREPID". INTREPID is an EU Framework 6 Specific Support Action, Contract Number INCO-CT-2006-043784. The project which was a follow-up project of the Dutch funded ATPS Phase VI program on Water and Environment, 2004 – 2008 was led by the Macaulay Land Use Research Institute, UK

in collaboration with the ATPS and the Tanzanian National Parks Authority (TANAPA). The project grant was awarded by the EC Framework 6 program in 2007 but the bulk of ATPS activities were carried out in 2008 (see <http://www.macauley.ac.uk/INTREPID/>). The program was coordinated by Dr. Kevin Urama, Executive Director of ATPS. Specific activities carried out under the INTREPID program in 2008 include:

3.1 Inventory of Existing Policies and Programs for the Management of Water, Biodiversity and Livelihoods in the Mara River Basin

The inventory is now completed by the ATPS and in liaison with the project consortium, these have been reviewed and uploaded to the INTREPID web-hosted interactive database resource. This database will be co-hosted on the ATPS website and managed by the ATPS to enhance effective networking amongst water and environment researchers, policy makers and practitioners in the region.

3.2 Pan-African Stakeholder Forum on Integrated Transboundary river Management Policy Development, Arusha, Tanzania, 12 – 14 March 2008

The ATPS hosted a pan-Africa stakeholder policy forum in Arusha Tanzania, 12 – 14 March 2008, in collaboration with its project partners, the MI and TANAPA. The workshop which brought together 50 delegates from 13 countries, brainstormed on existing research and policy gaps as well as the nexus between conservation of biodiversity, water management, and livelihoods in semi-arid river basins, using the Mara river basin as a case study.

3.3 Final Reporting and Publications

The project produced four key policy relevant outputs including:

- Published proceedings of the stakeholder policy forum: "Towards an Integrated Trans-boundary River management Policy Development in Semi-Arid River Basins" see <http://www.atpsnet.org/pubs/workshop/Proceedings%20Intrepid.pdf> and also on http://www.macauley.ac.uk/INTREPID/INTREPID_Proceedings_Report_July_2008.pdf
- A policy brief: "Bordering on a water crisis: the Need for Integrated Resources Management in the Mara River Basin, see <http://www.macauley.ac.uk/INTREPID/PolicyBrief.pdf>; ➤



- An article on the eStrategies Magazine published by British Publishers and distributed to over 39,000 across Europe and Africa, See <http://www.atpsnet.org/pubs/research/estrategiesarticle.pdf>, and
- Establishment of a web-hosted, interactive database resource for coordinating information on IWRM, CBD and SL in the Mara river basin, see <http://www.macaulay.ac.uk/INTREPID>.

These outputs were disseminated widely at a conference co-hosted by the United Nations Environment Program (UNEP), the International Society for Ecological Economics (ISEE), the African Society for Ecological Economics (ASEE) and coordinated by the ATPS from 7th - 11th August, 2008. Rt. Hon. Raila Odinga, the Prime Minister of Kenya gave the inaugural address at the meeting and received copies of the policy brief. The policy outcomes of the project have been wide reaching, including initiation of formal memorandum of understanding to strengthen collaboration between responsible institutions such as World Wildlife Fund, the ATPS, ACTS etc; and new program initiatives with selected partners. For details on the INTREPID project, see: <http://www.macaulay.ac.uk/INTREPID>.

3.4 Financial Reporting and Financial Audit of the INTREPID Project

As part of the EC grant requirements, ATPS completed a financial audit of the INTREPID project as part of the financial report for the project. The audited financial accounts and the final technical reports for the project have since been submitted to the European Commission via the Macaulay Institute.

4.0 Science Ethics and Technological Responsibility in Developing and Emerging Countries (SETDEV), 2008 -2010

The period saw the launch of a new collaborative project under the auspices of the EU Framework VII Coordinated Action program: "Science Ethics and Technological Responsibility in Developing and Emerging Countries" (SETDEV). SETDEV is an EU FP7 Capacities Work Program: Science in Society; Project Number: 218811. The project which involves a consortium of 11 institutions in Africa, Europe and India is being led by the National Research Council of Italy (Consiglio Nazionale delle ricerche) with the ATPS being the lead African partner. Other partners in the SET-DEV consortia includes Maastricht University, The Netherlands; University of Central Lancashire, UK;

Max Delbrück Centrum für Molekulare Medizin, Germany; University of Hyderabad, India; Lund University, Sweden; Centre for World Solidarity, India; IntermediaNCG, etc. Dr. Urama, ATPS Executive Director coordinates the activities of the project in Africa and is also member of the Executive Steering Committee for the project. Prof. Banji Oyeyinka has been appointed by the project consortia as member of the Executive Advisory Board for the project.

SET-DEV aims to bring science closer to society, to facilitate sharing of own experiences and responsibilities for scientific and technological research (STR) amongst targeted partner countries in Europe, Africa and Asia; to strengthen international and regional networks in the fields of ethics and science, and to implement best practices in developing countries and emerging economies. The project commenced in March 2008 and has provided a useful platform for strengthening ATPS presence in the global knowledge community to facilitate its knowledge brokerage activities in the global STI arena. For details see, <http://www.set-dev.eu/>. Activities carried out under the auspices of the program in 2008 include:

4.1 Project Start-up meeting, Rome, July 10 – 11, 2008

Dr. Kevin Urama, ATPS Executive Director, participated in the Executive Steering Committee meeting of the SETDEV project, at the CONSIGLIO NAZIONALE DELLE RICERCHE, Rome, July 10 – 11, 2008. The start up meeting marked the launch of the first work-package of the SET-DEV project and the ratification of the project consortium agreement.

4.2 SET-DEV Launch Meeting, Nairobi Kenya, 5 August 2008

The Kenyan SET-DEV Partners (IntermediaNCG and ATPS) held a meeting on 5th August 2008 at the ATPS Secretariat in Nairobi Kenya. At this meeting, the Kenyan partners, were briefed on the SET-DEV steering committee meeting that was that was attended by IntermediaNCG representative, Mr. Brice Montfraix and ATPS Representative, Dr. Kevin Urama. The meeting also marked the formal launch of SETDEV in Africa and the sharing of responsibilities to partners. For details see <http://www.atpsnet.org/about/news/2008/SETDEV%20Story.html>



Participants attend a focus group discussions held in Nairobi, Kenya

4.3 Focus Group Discussion and Bilateral Interviews, November 5-7, 2008

As part of the SET-DEV project, a Focus Group Discussion (FGD) was held at the Silver Springs Hotel in Nairobi, Kenya on November 7, 2008. The FGD was organized by the African partners (ATPS and Intermedia NCG) and was attended by two participants from one of the partner institution in Europe, Laboratorio di Scienze della Cittadinanza (LSC). Nine other participants drawn from key government sectors in Kenya participated in the FGD.

The FGD brainstormed on key areas identified as crucial to the facilitation of effective socialisation (embedding) of STI in society and valorisation of the research results in Africa. These include: Scientific practice; Scientific mediation; Scientific communication; Evaluation; Innovation; Governance; Gender; and Cognitive aspects. The aim was to gather information on the processes of socialization of scientific and technological research in the continent, document best practices and initiate a process of mutual engagement of the key actors in the project from the onset. Participating institutions in the FDG included: Intermedia NCG; Ministry of Agriculture (MoA); University of Nairobi (UoN), Kenya Agricultural Research Institute (KARI); Kenya National Council of Science and Technology (NCST); African Women Leaders in Agriculture and Environment Network (AWLAENET); Laboratorio di Scienze della Cittadinanza (LSC); African Biotechnology Stakeholders Forum (ABSF); Kenyatta

University (KU), etc. In addition, one-on-one interviews were held with key actors from a cross-section of key NGOs, private sector, religious institutions, research institutions and public bodies. Interviewed actors included Prof. Judi Wakhungu (ACTS); Dr. Eric Aligula, (KIPPRA); Dr. Peter Mageto, Daystar University; Mr. Kevit Desai, Centurion Systems and Mr. Elijah Agevi, Nairobi City Council. A draft report on the focus group has been produced and is currently under peer review by the project consortium. For details see, <http://www.set-dev.eu/>

5.0 WWF/ATPS/ACTS Collaborative Project on Climate Change Adaptation in East Africa

The period saw the launch of a collaborative project on Climate Change Adaptation in East Africa, in collaboration with World Wildlife Fund-East African Regional Office (WWF-EARPO) and the African Centre for Technology Studies (ACTS). The project followed the outcomes of the ATPS 2007 annual conference which focused on Science, Technology and Climate Change Adaptation in Africa.

The project's main objectives were to generate and disseminate an inventory of coping strategies in East Africa and mainstream STI for climate change adaptation techniques into the WWF's Freshwater Program through dissemination workshops and relevant publications. The project which is led by Dr. Musonda Mumba of WWF-EARPO, started in July 2008 and was concluded in December 2008. The objectives of the project includes to

- Collect information on coping strategies by rural communities in east Africa;
- Identify information gaps through commissioned case studies in Kenya, Uganda and Tanzania;
- Develop and disseminate inventories/assessments on mainstreaming of adaptation to climate change into the WWFs Freshwater Programs that will lead to integrated planning, management and conservation of biodiversity in freshwater environments exposed to climate change, and
- Share of information gathered with stakeholders.

Under the auspices of this program, the ATPS and its partners have completed the following activities: ➤



Participants who attended a workshop on Climate Change Adaptation in Nairobi, Kenya

5.1 Workshop on Climate Change Adaptation: Mainstreaming Climate Change Adaptation in Development Policies in East Africa, Nairobi, Kenya, October 14–16, 2008.

WWF-EARPO in collaboration with ATPS and ACTS organized a 3 day workshop on Climate Change Adaptation: Mainstreaming Climate Change Adaptation in Development Policies in East Africa at the Silver Springs Hotel, Nairobi, Kenya, 14 – 16 October 2008. The workshop brought together 37 Government Officials and key stakeholders from East African countries to review the report on indigenous adaptation strategies by rural dwellers in Kenya, Uganda and Tanzania. The objective of the workshop was to review progress made in mainstreaming climate change adaptation into development policies in East Africa with an emphasis in the water sector and to identify existing opportunities for promoting adaptation strategies. The workshop addressed the following issues:

- Vulnerability of freshwater ecosystem in EA region to climate change;
- Adaptation strategies within the WWF- EARPO freshwater program;
- Established capacities to climate change adaptation within the freshwater program;
- Evaluation of policies on climate change adaptation in Eastern Africa; and
- Strategies for promoting adaptation within the freshwater set out

5.2 Inception Workshop: Mainstreaming Climate Change Adaptation into Freshwater Programs, December 16, 2008 in Nairobi, Kenya

Following the successful inception workshop discussed above, the ATPS, WWF-EARPO, and ACTS organized a second workshop with a wider constituency of participants December 16, 2008 at the Silver Springs Hotel in Nairobi, Kenya. The aim of the workshop was to mark the completion of the inception phase of the project and to brainstorm on the way forward to developing a larger collaborative program with the

partners. The workshop was attended by 30 delegates from key institutions in Kenya, Uganda and Tanzania.

At the inception workshop a 3 year framework for the implementation of the full project on climate change adaptation was developed based on key issues emanating from the inception phase. This was achieved by highlighting the key findings/recommendations of the inception phase; developing a Vision, objectives and strategy for the next phase; and coming up with institutional arrangements for the next phase. The objectives of the workshop are summarized below:

- To establish a system for mapping and tracking vulnerability and adaptation of communities and freshwater ecosystems to Climate Change;
- To empower the riparian communities develop alternative livelihood systems that are climate change resilient and that lessen anthropogenic pressures on ecosystems;
- To mainstream Climate Change concerns into relevant policies, programmes and actions; and
- To raise awareness on Climate Change at all levels and to build the institutional, technical and individual capacities to adapt to Climate Change ■



YOUTH AND GENDER
EMPOWERMENT
PROGRAM

Science, Technology and Innovations
for African Development



Youth and Gender Empowerment Program



1.0 ATPS/CTA/RUFORUM/FARA Women and Young Professional Competitions in Science Competitions

Under the auspices of the ATPS Phase VI program on youth and gender empowerment, ATPS coordinated two competitions in collaboration with the Technical Center for Agricultural and Rural Cooperation (ACP-EU), the Forum for Agricultural Research in Africa (FARA), the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM), the New Partnership for Africa's Development (NEPAD) and the Alliance for a Green revolution in Africa (AGRA). Dr. Catherine Adeya-Weya, the ATPS research and Training Manager coordinated the project in liaison with Ms. Judith Francis, Senior Program Coordinator, Science & Technology Strategies, CTA.

1.1 Young Professionals in Science Competition

This competition is open to all young professionals (18-35 years) in sub-Saharan Africa (SSA). It seeks to promote scientific excellence and recognize and reward

outstanding young professionals who are undertaking innovative research, technology development or agriculture related activities and communicating the outputs (knowledge, technologies and approaches) to improve agricultural performance in SSA. The top entrants will be sponsored to attend the 2008 Ministerial Forum in April 2009, in Addis Ababa, Ethiopia. A call for abstracts was placed on the ATPS website and those of the collaborating institutions and was widely publicized through posters and the press, including the East Africa newspaper. The Youths in science competition received 138 applications (13 in French) from 25 African countries.

ATPS hosted the first Inception Meeting of the project on 28 May 2008 and the First Expert Group Planning meeting on 7 July 2008 both in Nairobi Kenya. After the preliminary short listing of abstracts by the ATPS, a second expert group meeting was hosted in Accra, Ghana, 1 – 3 October 2008 for final peer review of the abstracts and selection on top entrants. The abstracts were evaluated on the basis of a number of criteria including: logic and quality of content; communication;



impact; innovativeness and originality. Following this thorough and exhaustive evaluation process, 21 abstracts were short listed to develop their abstracts into full papers for presentation at the Ministerial Conference in Addis Ababa, Ethiopia, 20 - 21 April, 2009.

The top entrants were notified on October 9, 2008 and have since submitted their full papers. The submitted papers are now under peer review by the Expert Group Committee, chaired by Dr. Catherine Adeya-Weya, the ATPS research and Training Manager.

1.2 Women in Science Competition

As noted in the ATPS Phase VI Strategic Plan, 2008 – 2011, the ATPS Women in Science and Technology program mirrors those of the youth program. This competition therefore seeks to identify and recognize women scientists in sub-Saharan Africa (SSA) who are engaged in innovative and pioneering research and communicating the outputs (knowledge, technologies, approaches) for enhancing agricultural performance in SSA. It also targets women who are repackaging and communicating existing knowledge to improve agricultural productivity and livelihoods of rural communities. Women scientists who are advocating for policy change to optimize the benefits of scientific and technological developments are also targeted.

A call for abstracts was placed on the ATPS website and those of the collaborating institutions and was widely publicized through posters and the press. The women in science competition received 133 applications (9 in French) from 24 African countries. ATPS hosted the first Inception Meeting of the project on 28 May 2008 and the First Expert Group Planning meeting on 7 July 2008 both in Nairobi Kenya. After the preliminary short listing of abstracts by the ATPS, a second expert group meeting was hosted in Accra, Ghana, 1 – 3 October 2008 for final peer review of the abstracts and selection on top entrants. The abstracts were evaluated on the basis of a number of criteria including: logic and quality of content; communication; impact; innovativeness and originality. Following this thorough and exhaustive evaluation process, 21 abstracts were short listed to develop their abstracts into full papers for presentation at the Ministerial Conference in Addis Ababa, Ethiopia, 20 - 21 April, 2009. The top entrants were notified on October 9, 2008 and have since submitted their full papers. The submitted papers are now under peer review by the Expert Group

Committee, chaired by Dr. Catherine Adeya-Weya, the ATPS research and Training Manager.

1.3 Other Youth Empowerment Activities

Local Case Studies on Behavioural Change: To enhance the capacity of the AYFST members to write on STI related subjects, ATPS has commissioned six publications based on case studies presented during past African Regional Youth Congress and Expositions held in Nairobi and Ghana to be published under the ATPS Working Paper Series. These include:

- Impact of HIV/AIDS on the livestock farming communities of Uganda: Case studies of Moyo and Kashumba sub counties, Charles Lagu, National Agricultural Research Organization (NARO), Uganda
- Abstinence and behaviour change for the youth: What works? Juma Warrii, Research Coordinator, I Choose Life – Africa, Kenya
- Programme aimed at the reduction of the incidence and prevalence of HIV/AIDS and sexually transmitted infections (STI's) among Nigerian Youth with a focus on Human Capital Poverty, Urama Nathaniel, University of Nigeria, Nigeria
- Building the competence of youth on sustainable livelihoods skills and reproductive health using e-technologies, Desmond Okoro, Program Officer, Youth Action Rangers of Nigeria (YARN), Nigeria
- The impact of HIV/AIDS on agriculture and food security in Malawi, Janet Hilda Kabuli, Research Officer, Department of Agricultural Research Services, Ministry of Agriculture and Food Security, Malawi
- Assessment of the effects of HIV/AIDS on rural agricultural systems and livelihoods: A comparative study of Rakai and Kabale District in Uganda, Jackson Tumwiine, Makerere University, Uganda

The selected youths are being mentored by the ATPS Communications Department to write and publish these papers drawing on practical interventions carried out under the ATPS Health Technology program. The aim is to build capacity in scientific writing amongst the youths without necessarily hosting a scientific writing course which has been identified as one of the areas that requires ATPS intervention. The ATPS Secretariat is planning to host a youth congress in 2009 where a larger constituency of the youths will be trained on scientific writing and valorization of science techniques. ➤



1.4 Launch of the Nairobi University Biochemistry Association (NUBSA)

Technology remains the substance of health care, in this era of increasing cost pressures, restructuring of health care delivery and payment, inadequate access to health care for many. In this regard, the ATPS through the Kenya Chapter supported the Nairobi University Biochemistry Student's Association (NUBSA) workshop held on 04 July, 2008 at the Safari Park hotel in Nairobi. The workshop largely focused on the Impact of biotechnology on the Kenyan economy. It discussed how the growth and development of Health Technology Assessment (HTA) in government and the private sector can be used to advise or inform policy makers and other stakeholders. Target audience for the workshop included:

- Regulatory agencies such as the Kenya Bureau of Standard about whether to permit the commercial use (e.g. marketing) of a drug, device or other technology,
- Health care payers, providers, and employers about whether technologies should be included in health benefits plans or disease management programs, addressing coverage (whether or not to pay) and reimbursement (how much to pay),
- Clinicians and patients about the appropriate use of health care interventions for a particular patient's clinical needs and circumstances,
- Health professional associations about the role of a technology in clinical protocols or practice guidelines, and
- Hospitals, health care networks, group purchasing organizations, and other health care organizations about decisions regarding technology acquisition and management.

The workshop created a platform where the student, government and the general public as a whole had an opportunity to understand how HTA contributes in many ways to the knowledge base for improving the quality of health care, especially in supporting development and updating of a wide spectrum of standards, guidelines, and other health care policies. This will hopefully lead to improved health standards in Kenya and subsequent ripple effects on the economy.

1.5 ATPS Student Internship Program

Under this activity, the ATPS Secretariat engaged eight interns from different Schools in Kenya covering different subject areas. The Interns normally mirror an experienced ATPS staff in implementing specified activities for a specified period, normally 3 months. This provides opportunities for the young students to develop interest in different fields of STI policy research and receive mentorship from ATPS Secretariat staff.

The areas covered under the student internship program for the year included Information Technology, Accounting and Finance, Science Communication, and STI Research. The ATPS Secretariat always remain engaged with their student Interns after they return to School to encourage them to retain the interest in STI policy research and policy advocacy, and build a culture of innovation and excellence in their future careers. Amongst the Student Interns engaged in the year 2008, two most outstanding Interns have received short term contracts with the ATPS to remain engaged with the ATPS upon completion of their studies ■



STI TRAINING AND SENSITIZATION



Training on Communication Science to
Parliamentarians" Workshop held in Kampala Uganda

Science, Technology and Innovations
for African Development



STI Training and Sensitization



Participants during a Science Café in Kenya

ATPS Science Café, April 17, 2008

ATPS in collaboration with the International AIDS Vaccine Initiative (IAVI), British Council South Africa and support from Dr. Duncan Dallas organized the first ATPS Science Café on April 17, 2008 in Nairobi, Kenya. A Science Café or Café Scientifique, is a forum for discussing/debating important and interesting scientific issues in an informal accessible manner. It provides a unique forum for the discussion of topical and thought provoking scientific issues in a relaxed, informal and accessible manner.

Professor Omu Anzala, a leading Kenyan HIV/AIDS researcher and Director of the Kenya Aids Vaccine (KAVI) was the guest speaker at the café. The delegates at the science café included journalists, students and private sector stakeholders. The café was very successful and even attracted media attention. The program was aired

on the National Television in Kenya (NTV). ATPS plans to use the science café model to disseminate its research findings to its various constituents including policy makers, media and the general public.

Scientific Revival Day in Africa (SRD), June 30, 2008

ATPS adopted the science café concept, a new model of science communication intended to increase scientific literacy and bridge the gap between science and society, to mark the Scientific Revival Day of Africa (SRDA) among the youths in selected chapters including: Ghana, Kenya, Tanzania, and Swaziland. While the Kenya, Swaziland and Tanzania chapters received small grants from the ATPS to carry out this activity, the Ghana chapter was able to secure funding from elsewhere, an indication of the strong commitment of the ATPS chapters to marking the scientific revival day for Africa. Some of these activities are described briefly below:



ATPS- Kenya Marks Scientific Revival Day

The ATPS Kenya Chapter and the ATPS Secretariat worked together to commemorate the 2008 Scientific Revival Day of Africa on 30 June, at the Nairobi Safari Club, Lillian Towers. Students and guidance and counseling teachers from over 16 schools across Nairobi attended the meeting. Major issues including HIV/AIDS, reproductive health and sexuality; HIV/AIDS and substance and drugs abuse; HIV/AIDS and stigma; and Prevention of HIV/AIDS infections were addressed by a panel of experts. Hideyo Noguchi Africa Laureate and National Aids Control Council (NACC) Chair, Prof Miriam Were, was the key guest at the Scientific Revival Day commemorations. Other key speakers at this event include Mr Mbutu wa Kariuki from the National Agency for The Campaign Against Drug Abuse Authority (NACADAA); Ms Carol Odada of Women Fighting Against AIDS (WOFAK) and Dr Paul Wangai who discussed HIV/AIDS and Substance Abuse, HIV/AIDS and Stigma and HIV/AIDS and Prevention, respectively.

The outcomes of the meeting include increased information exchange among the youth on HIV/AIDS issues; improved networking among peer clubs in schools; etc.

ATPS-Ghana Celebrates Scientific Revival Day

The ATPS Ghana Chapter celebrated the Scientific Revival Day on 30th June 2008 at the Science and Technology Policy Research Institute (STEPRI) Auditorium in Ghana. The meeting was held under the theme 'Food, Water and Energy Challenges: The Role of Science, Technology and Innovation'.

Key guests at the meeting included Hon. Boniface Abubakar Saddique, the Minister of Water Resources, Works and Housing; Professor Emmanuel Owusu-Bennoah, the Director General of the Council for Scientific and Industrial Research (CSIR); Hon. Kwame Owusu Frempong, the Chairman of the Parliamentary Select Committee on Science, Technology and Environment; Dr. Yaa Difie Osei, Chairperson of the Board of ATPS – Ghana Chapter; Dr George Owusu Essegbey, the former National Coordinator of ATPS – Ghana Chapter and Dr Frederick Amu-Mensah, the ATPS Ghana Chapter National Coordinator. The meeting featured presentation of technical papers from three eminent scientists and professionals, including Dr Margaret Ottah Attipoe who spoke on food issues as relates to the theme; Ms

Charlotte Engmann who spoke on water issues and Mr Kobina Woode who addressed energy issues. The event was aired on three major TV stations in Ghana (TV3, Metro TV and TV Africa). It has also been published in a number of newspapers and also on online at http://www.ghana.gov.gh/ghana/african_leaders_urged_commit_more_science_technology.jsp and <http://www.ghanaweb.com/GhanaHomePage/NewsArchive/artikel.php?ID=146158>.

ATPS-Tanzania Marks Scientific Revival Day

The ATPS Tanzania chapter held a press conference to mark the Scientific Revival Day of Africa on 30th June 2008 in Dar es Salaam Tanzania. The press conference was held under the theme evidence based policy making in STI and was attended by about 12 local journalists and ATPS Tanzania chapter members. Some of the key guests at the Conference included ATPS Tanzania National Coordinator, Ms Bitrina Diyamett, Prof Samuel Wangwe and Dr Adalgot Komba. The press conference which was published on a national newspaper encouraged African countries to allocate more resources to the development of science and technology for African development. The conference also noted that there was need to have appropriate policies to accompany advances in Science and Technology.

Training of Parliamentary Staff on Communicating Science to Parliamentarians, Kampala, Uganda, 22 – 26 September 2008

Under the auspices of the ATPS Phase VI Strategic Plan program on Training and Sensitization, ATPS liaised with UK Parliamentary Office of Science and Technology (UK-POST) and SCIDEV-Net to host a 5 day training workshop on Communicating Science to Parliamentarians in Kampala, Uganda, 22 – 26 September 2008. The ATPS received a grant from the Parliamentary Science and Technology Information Foundation (PSTIF) on behalf of UK Parliamentary Office of Science and Technology (UK-POST) to host the training workshop. In addition, SCIDEV-Net also contributed in sponsoring some delegates and some activities during the workshop. Dr, Kevin Urama, ATPS Executive Director, coordinated the training workshop.

The aim of the workshop was to help participants develop skills in translating scientific and technical >



Participants who attended the “Training on Communicating Science to Parliamentarians” Workshop held in Kampala Uganda

information into a form that is accessible and relevant to policy makers, and develop skills in writing policy briefing papers. A call for applications was placed on the ATPS and SciDev.net websites and approximately 50 applications were received from 17 African countries. The applicants represented a wide range of actors including parliamentary staff, members of parliament, private and public sectors. To ensure adequate buy-in by the responsible authorities in the respective African Parliaments and ensure that the key Parliamentary staff was targeted, the Parliamentary Clerks of each country was invited to nominate applicants and endorse the application forms submitted by staff.

To ensure transparency and fairness in the selection of delegates, the short listing of qualified applicants was carried out by a team of experts representing each collaborating partner (ATPS, UKPOST and SciDev-Net). The expert committee short listed 19 candidates including (clerks, researchers and librarians). The successful candidates received full sponsorship to the workshop.

The Trainers at the workshop included: Dr. Kevin Urama, Executive Director of ATPS, Dr. Catherine Adeya-Weya, ATPS Research and Training Manager; Dr. David Dickson, Director of SciDev.Net, UK; Dr. Chandrika Nath, Senior Policy Adviser, UN Parliamentary Office for Science and Technology, and Lynne Smit, Of Course Media and Communications, South Africa.

Rt. Hon. Edward Ssekandi Kiwanuka, the Speaker of the House of Parliament, Uganda delivered the opening address of the workshop and appreciated the initiative taken by the workshop organizers to provide basic skills required to effectively communicate scientific issues to parliamentarians. The Nigerian High Commissioner to Uganda, H.E. Fidelis Ayogu also gave a talk on his several years of experience a scientist and policy maker. He emphasised the importance of the work of the ATPS and its partners in this area and encouraged delegates and development partners to support the initiative. These speeches can be downloaded from the ATPS website (see <http://www.atpsnet.org/about/news/2008/paliamentarian%20workshop.htm>).



Overall, the workshop received high demand both from Parliamentary Clerks, Parliamentary staff, private and public sectors and in some cases staff of international organisations. It has also produced significant outputs including:

- The launch of a discussion forum Network of Parliamentary Staff in Africa – (see <http://www.afripar.ning.com>);
- A workshop report (under peer review);
- The launch of the ATPS Responsible STI Knowledge for Development knowledge Board (see <http://www.atpsnet.org/about/news/2008/Knowledge%20Forums.htm>); and
- A training manual on “Communicating Science to Parliamentarians” which is under development drawing on lessons learned from the workshop.

The training manual which will be co-authored by ATPS, UKPOST and SCIDEV-Net will be made available to the trainees so that they can train their colleagues in their Parliaments if needed.

Delegates at the workshop have continued to liaise with each other and with the Trainers in drafting policy briefs and sharing information on the job. For details on the training workshop, see: http://www.atpsnet.org/about/news/2008/parliamentarians_workshop.htm. As a result of the Training, the Parliament of the Republic of Namibia is now considering the possibility of establishing a parliamentary standing committee on science and technology. Due to the success of the training workshop, ATPS plans to provide similar training workshops for the various categories of the STI stakeholders in Africa, under the auspices of the ATPS Phase VI Strategic Plan if required funding is received from development partners.

Training of Parliamentarians on STI Policy Formulation and Policy Implementation (forthcoming)

Further to the training of Parliamentary staff discussed above, the ATPS received a grant from UNESCO Nairobi Regional office to mount a training Parliamentarians and Policymakers on STI Policy Formulation and Policy Implementation. The main objectives of the project are:

- To develop a training module for STI policy formulation and implementation;

- To raise awareness of members of parliaments and senior policy-makers on the role of Science, Technology and Innovation (STI) for achieving sustainable development in Africa;
- To provide knowledge and tools for policy formulation and implementation in STI;
- To provide a forum for inter-parliament discussions on the issues of STI for Development (STI4D);
- To build the foundation for launching a “Parliamentarians in STI4D” network in eastern Africa. This network would support the existing ATPS Responsible Science, Technology and Innovations Knowledge for African Development Forum (RSTI-K4AD Forum), see: <http://www.atpsnet.org/about/news/2008/Knowledge%20Forums.htm>.

The training workshop is expected to achieve the following results:

- Training module developed for STI policy formulation and implementation;
- At least one sub-regional workshop organized in Africa for training of policy-makers;
- Knowledge and awareness of a significant number of Members of Parliament and senior government policy-makers in various relevant sectors related to S&T and development are improved on issues related to policy formulation and implementation in S&T;
- Draft TOR for a “Parliamentarians in STI4D” network; and
- A larger consensus is built on STI indicators and a significant number of Members of Parliament and senior government policy-makers in S&T are trained on identifying and using STI indicators for planning, Monitoring and Evaluation of STI related projects.

The ATPS Secretariat has already commenced work on the mapping of STI policy making training needs in the continent ■




SCIENCE COMMUNICATION
AND STAKEHOLDER
DIALOGUE



Science, Technology and Innovations
for African Development





OUTREACH, KNOWLEDGE BROKERAGE, KNOWLEDGE CIRCULATION AND POLICY ADVOCACY

Implementation of the ATPS Phase VI Strategic Plan in 2008 saw more emphasis put on the “Outreach, Knowledge Brokerage and Policy Advocacy” program. The strategic goal under this program is to promote integration of ST&I research and policy in African development planning and policymaking processes. The specific objectives are to:

- Strengthen partnerships between researchers and policy makers in the ST&I policy process;
- Create opportunities for different policy stakeholders to brainstorm on the options for accelerating the achievements of a country’s ST&I objectives;
- Sensitize leaders/policy makers on their leadership roles in promoting ST&I-led development;
- Strengthen existing ATPS chapters through training, establishment of National Offices;
- Establish new ATPS chapters with an emphasis on Francophone and /or Lusophone African countries; and
- Publish policy briefs addressing MDG-related ST&I policy issues

The thematic activities carried out during the period are described briefly below:

Knowledge on the Move: Research for development in a Globalizing world”, 27 – 28 February, 2008

ATPS Executive Director, Dr. Kevin Urama participated as a resource person to a conference on Knowledge on the Move: Research for Development in a Globalising World which took place at The Hague in the Netherlands. The conference was organized jointly by Netherlands Organisation for Scientific Research (NWO-WOTRO) Science for Global Development, Nuffic and the Institute of Social Studies (ISS) with funding from the Ministry of Foreign

Affairs in The Netherlands. The conference reflected on the relations between development cooperation and international research cooperation. It aimed to inspire innovative policies and practices in the fields of research, knowledge and development. The target audience consisted of three constituencies involved with international cooperation in the fields of higher education and research for development: researchers, practitioners and policy makers. Dr. Urama’s participation at the conference was funded by the ATPS.

Pan African Competitiveness Forum (PACF), April 14 – 16, 2008

The ATPS Executive Director participated in the first Pan African Competitiveness Forum (PACF) conference at the African Union Offices in Addis Ababa, Ethiopia, 14 – 16 April 2008. The forum was hosted by the African Union (AU) and the Swedish International Development Cooperation Agency (SIDA) in collaboration with the Competitiveness Institute. Dr. Urama gave a plenary presentation on the ATPS Network and implications for STI in Africa and the PACF initiative in particular. The presentation can be downloaded from the ATPS website (see <http://www.atpsnet.org/about/news/2008/PACF%20meeting.html>)

PACF is a new continent-wide competence and action centre for innovation and cluster based competitiveness approaches to national and regional economic development in Africa. The overall objective of PACF was to enable stakeholders involved in innovation and cluster based competitiveness initiatives to respond more effectively to the unique challenges and opportunities that Africa is facing in global competition.

The 1st PACF marked the beginning of learning, and ideas and experience sharing on competitiveness in Africa ➤



between African countries and their global partners. Ms. Bitrina Diyamett, ATPS Tanzania National Coordinator; Dr. George Essegbey, former ATPS Ghana national coordinator and member of the National coordinators' regional steering committee; and Prof. Joseph Obua, ATPS Uganda national chapter coordinators played key roles in organising the event. The event saw the election of Dr. Essegbey and Prof. Obua to the Advisory Board of the PACF initiative.

UNEP Inter-Divisional Meeting on Economics, May 6 – 7, 2008

The ATPS Executive Director participated in the First Meeting of Inter-Divisional Economics Group which was held on May 6 – 7, 2008 at United Nations Environmental Programme (UNEP) headquarters in Nairobi, Kenya. The objective of the meeting was to determine the major components of a UNEP-wide economics programme in support of delivery on UNEP's environmental priorities. Dr. Urama's participation has led to greater involvement of the ATPS in UNEP's global activities on sustainable development. Discussions are ongoing on ATPS involvement in UNEP Green Economy study.

CTA Expert Meeting – ACP Policy Briefs on Nanotechnology and Dryland Agriculture, June 23 – 27, 2008

The ATPS Executive Director and ATPS national chapter coordinators (nominated by the ATPS Secretariat) participated in an expert meeting on ACP Policy Briefings on Nanotechnology and Dryland Agriculture from June 23 – 27, 2008, which was organized by the Technical Centre for Agricultural and Rural Cooperation (CTA) in The Netherlands. The meeting was convened following the 6th Advisory Committee (AC) Meeting on S&T for ACP Agricultural Development in November 2007 whereby members agreed to advance policy formulation on nanotechnology and dryland agriculture. The two ACP policy briefs drafted from this meeting are under further peer reviewed prior to the 7th AC meeting in November 2008 and will be widely disseminated throughout the ACP region and internationally. ATPS National Chapter Coordinator who participated in the Expert group meeting include: Prof. M. C. Madukwe, Nigeria, Ms. Bitrina Diyamett, Tanzania, Mr. Kenneth Aduda, Kenya, Dr. Arsene Kouadio, Cote d'Ivoire, Dr. Musa A. Dube

(represented by Dr. Manyatsi), ATPS Swaziland and Dr. Ndeso Atanga, Cameroon. Participation by Dr. Urama and the ATPS national coordinators was funded by CTA.

ISEE Board and ASEE Steering Committee Meetings, UN Conference Centre, Gigiri, Nairobi 7 and 10 August 2008

The ATPS Executive Director played a key role in organising the Board meetings of the International Society for Ecological Economics (ISEE) and the Steering Committee Meeting of the African Society for Ecological Economics (ASEE). Both meetings were hosted at the UNEP Headquarters, Nairobi, Kenya. The meetings saw the election of Dr. Urama as the President of the ASEE – the African chapter of the ISEE with membership in more than 30 countries in Africa, 2006 - 2012. Dr. Urama's participation at the meeting required no funding as this was held in Nairobi.

STI Press Conference, Abidjan, Cote d'Ivoire, 11 September 2008

Mr. Akosi Bendjo, ATPS Board member and President of the Beniahn Foundation, invited Dr. Urama to his foundations' ceremony on awarding grants to Ivorian Youths on 11 September 2008 at Abidjan, Cote d'Ivoire. The event saw the ATPS enter into partnership with the Benniah foundation and the award of over 23 full scholarships to Ivorian youths to help them pursue STI relevant postgraduate studies in America, Europe, Africa, etc. Dr. Kwadio, ATPS Cote d'Ivoire national coordinator, presented the strategic plan of the chapter and urged the Private Sector actors and the University Dons present to invest in the implementation of ATPS Cote d'Ivoire activities.

Dr. Urama presented the aims and objectives of the ATPS, stressing the value of science, technology and innovation (STI) policy studies for African Development. The presentation highlighted that the strategic objective of the network is to build Africa's STI capacity through a six pronged approach: STI Research and Research Capacity Building; International Cooperation and Partnerships; Youth and Gender Empowerment; Training and Sensitization; Science Communications and Stakeholder Dialogue and Outreach, Knowledge Brokerage and Policy Advocacy.



From Left: Dr. Arsene Kouadio, National Chapter Coordinator, Cote d'Ivoire; Mr. Akossi Bendjo, President of Benianh Foundation/Mayor of Abidjan/Member, ATPS Board; Prof. Ly Ramata Bakayoko, Vice President of the University of Abidjan-Cocody; Mr. Alexis Hibault, Director of Cabinet, Minister of Higher Education & Research, Cote d'Ivoire; Dr. Kevin Urama, Executive Director, ATPS; and Dr. Koffi N'Guessan, General Director of the National School of Statistics and Applied Economics, Abidjan

Dr. Urama noted that what is missing in Africa and the rest of the world today is not the lack of knowledge but the ability to translate knowledge into appropriate technologies and innovations for development. A number of good scientific research projects have been funded on a number of issues which are often framed through ad hoc assessment of the development problems of the target population. In most cases, the studies end up in scientific publications of research reports and academic journal articles. Dr. Urama noted that the ATPS is committed to translation of research results to sustainable and appropriate technologies and in turn innovations for development through a number of proactive measures.

These measures include active and dynamic engagement of science experts, policy makers and public-private sector actors in defining the STI research & policy problem, carrying out the study and translating the results from quality scientific publications to appropriate technologies and innovations for development. He stressed that all ATPS research activities are designed to support STI capacity building and hence must include the design and the make perspectives. In other words, all ATPS activities must lead to an institutional, governance or technological design that will lead to tangible products,

processes, and policies for African development. Dr. Urama noted that the ATPS is dedicated to work with the Quadruple Helix to ensure that Africa's STI capacity is built and investments in STI policy research yield development dividends. He requested the University Professors present not to stay reclusive and allow the results of their research waste on the shelves of big Libraries and in international journals which are either not accessible to African Policy Makers or too technical or too lengthy for them to be able to translate to actual products and services and/or institutional designs and policies for addressing African development issues effectively. He stressed that science is most relevant for development when it is fit for purpose and leads to practical solutions to the problem which is the subject of inquiry.

On the other hand, he encouraged the Private Sector and Policy Makers to invest in demand driven STI policy research that will yield development dividends for Africa. Dr. Urama decried the current situation where African countries (researchers, policy makers, and private investors/entrepreneurs) always looked to the Northern hemisphere for solutions to Africa's development problems. He noted that "there is no silver bullet" which solves development problems globally. While the scientific principles are the same, the practical solutions to problems (technologies) that work in the United States of America and/or in Europe may therefore not work in Africa, and vice versa.

He noted that through dedicated STI capacity building, Africa can and should take control of its rich endowments in natural and human capital, and chart its own development agenda. Citing the recent development gains seen in many Asian countries through concerted investments in home grown capacity in STI, he stressed that no country or continent could be developed through imported science and technology which are often alien to the social, cultural, environmental and political contexts. This, he said, is the reason why Africa needs to invest in building indigenous STI capacity. In conclusion he noted that: "African knowledge institutions do not lack wealth of knowledge, what is missing is the ability to translate the knowledge into innovations for development". The press conference was aired on Cote d'Ivoire national television. For details, see [http://www.atpsnet.org/about/news/2008/Atps Cote D'Ivoire.pdf](http://www.atpsnet.org/about/news/2008/Atps%20Cote%20D'Ivoire.pdf)



IWRM workshop for Policy/Decision Makers in the Water Sector, Mombasa, Kenya, 28 – 30 August 2008

Dr. Urama was invited as a Resource Person to give a lecture to key policymakers, government officials in the water sector of Kenya, Uganda and Tanzania on the role of attitudes and values in effective behavioural changes towards management of water resources. This meeting which was organized by Prof. Francis Mutua, the Coordinator of the Nile Basin Initiative's Training program, aimed to inform changes in the management of water resources in the region. Dr. Urama's presentation drew from the outcomes of the concluded baseline studies program of the ATPS-WEP. Delegates expressed interest in replicating the integrated value mapping model tested by the ATPS Water and environment program researchers.

International Advisory Board of the Responsible Innovation (MVI) Programme, the Netherlands, 26 September 2008

Following his participation at the Knowledge on the Move conference (see section 10.1 above), Dr. Urama was invited to serve on the international advisory board of the Responsible Innovation (MVI) programme of the Netherlands Organization for Scientific Research, (NWO), Division of Humanities of the Government of the Netherlands. The MVI program involves research into the ethical and societal aspects of new technologies (such as ICT, nanotechnology, biotechnology and neural sciences) and of changes in technological systems (energy, transport, agriculture and water). The objective is to help ensure that technological and scientific know-how become properly embedded in society. This programme – which is a cooperation between NWO and six Dutch ministries – offers the unique opportunity to α , β , and γ researchers to submit joint proposals addressing ethical and societal aspects of new technologies and changes in technological systems. The total budget of the MVI programme is approximately 10 million euros. The 12 member international advisory board will assist in the review and selection of proposals for funding. Dr. Urama attended the first meeting of the MVI programme on September 26, 2008, and participated in the review and selection of submitted proposals. Dr. Urama's

participation at the meeting was fully funded by the MVI program.

NSF-3 Consultative Group Meeting, FARA, Ghana, 29 – 31, October 2008

The Executive Director, the National Chapter Coordinator for Nigeria and for Swaziland participated in the NSF-3 Consultative Group meeting organised by the Forum for Agricultural Research in Africa (FARA), in Accra, Ghana, 29 – 31 October 2008. The meeting reviewed FARA's NSF-3 strategic implementation plans and contributed to the prioritisation of the NSF-3 activities. The meeting provided an opportunity for the ATPS to strengthen collaborations with FARA who is a key actor in Agricultural research in Africa.

ACP Advisory Board on STI, the Netherlands

Dr. Urama attended the STI Advisory committee for the ACP region which was held at the CTA, the Netherlands, 10 – 14 November 2008. Mr. Maurice Bolo, ATPS Senior Research Officer also represented the African Youth Forum for Science and Technology at the meeting, while Prof. Michael Madukwe, ATPS Nigeria national chapter coordinator, represented his University at the meeting. One outcome of the meeting is the NEPAD initiative on "the Role of African Universities in Capacity Building which the ATPS is involved in. CTA programs on STI for the ACP region were also reviewed by the Committee.

Launch of the Green Economy Initiative & Expert Group Meeting to respond to the Global Financial Crisis, Geneva, 1 – 4 December 2008

The ATPS Executive Director was invited as a Resource person at the launching of the Green Economy Initiative at the UNEP Offices in Geneva, 1-2 December 2008. This initiative's objective is to enable global leaders and economic, finance, trade, environmental and other policymakers to recognize environmental investment's contributions to economic growth, decent jobs creation, and poverty reduction, and reflect this recognition in their policy responses to the prevailing economic crisis and beyond. This initial meeting will provide an opportunity for policymakers, business executives, analysts, representatives from non-governmental and civil society organizations, and media to share their



perspectives on the shape of a global green economy. This will set the tone for the Green Economy initiative. Apart from a broad exchange on the concept of a green economy, a significant part of the conference will also be devoted to discussions on analytical tasks to be implemented over the next 18-24 months.

Dr. Urama participated in the Clean and efficient Technologies Sector. Subsequently, he co-chaired the Asia and Africa Expert Group discussion on policy responses to the global financial crisis under the auspices of the GEI. Discussions are ongoing with UNEP for ATPS's role in conducting the Kenya case study for the GEI. Details on the GEI can be found on UNEP's website. See <http://www.unep.org/greeneconomy/>. Dr. Urama's participation at the meetings was fully funded by UNEP.

Science Communicators Seminar in Johannesburg South Africa, February 3 - 8, 2008

ATPS Communications Assistant, Ms Ruth Wanjala attended the British council sponsored follow up Science Communicators seminar in Johannesburg South Africa from February 3 - 8, 2008. The seminar built on the experiences of the first science communications training held from 23 - 26 March 2007 in Grahamstown, South Africa that trained young science communicators on the science café concept intended to increase scientific literacy and bridge the gap between science and society.

Expert Group Meeting of the Youth and Women in Science Competition, 1 - 3 October, Accra, Ghana

Dr Adeya-Weya attended the 2nd Planning Meeting of the Women and Young Professionals in Science Competitions in Ghana from 1-3 October 2008; as part of the Expert Panel. The meeting was held at the FARA Secretariat in Accra, Ghana. The other members of the Expert Panel are Ms Judith Francis of CTA (Netherlands), Dr. Rufaro Madakadze of AGRA (Kenya), Myra Woporeis Pura of FARA (Ghana), Ruvimbo Chimedza, Gender Consultant (Zimbabwe) and Dr. Wellington Ekaya of RUFORUM (Uganda). The multidisciplinary expert panel spent two days to evaluate the abstracts. A total of 138 abstracts were received for the Young Professionals in



The expert panel of the Women and Young Professionals in Science holds its first planning meeting in Nairobi in July 2008

Science Competition and 133 for the Women in Science Competition. The expert panel made a collective decision on the winning entrants. This was done using a three pronged approach: a discussion of each candidate's entry and a vote on these, a defense of abstracts by individuals or teams; and finally an agreement on those the panel felt had potential for science or could serve as models for young professionals and women. The panel came up with a balanced list by country, institutions and disciplines. Forty applicants were selected to develop their abstracts to full papers and 38 did so by the deadline of 24 November 2008. The Expert Panel is currently reviewing the full papers to select the winners. While in Ghana, Dr. Adeya-Weya visited the ATPS Ghana chapter at the Science & Technology Policy Research Institute (CSIR-STPRI). She held meetings with Dr. George Essegbey (Director of STPRI and former National Coordinator of ATPS, Ghana); Dr. Frederick Amu-Mensah (ATPS Ghana National Coordinator) and Dr. Godfred Frempong (ATPS Ghana National Treasurer). She also met Dr. Yaa Difie Osei, the Chair of the ATPS-Ghana Board of Directors and Dr. Beatrice Mensah, the Deputy Director of the Council for Scientific and Industrial Research (CSIR) and a member of the ATPS-Ghana Board. Dr Adeya-Weya was impressed to find that the Ghana office is run permanently by an Intern Ms D. Bofo who often writes reports on Science and Technology issues and education. These are edited by Dr. Essegbey and Dr. Frempong. Once a week she presents these issues on Uniiq FM (one of the FM stations of the Ghana Broadcasting Corporation). For details see: <http://www.atpsnet.org/about/news/2008/>



Ghana%20Chapter%20Visit.pdf.

NEPAD meeting on The Role of Universities in Capacity Building, 4 – 5 December 2008

Dr Catherine Adeya-Weya, the ATPS Research and Training Manager attended the SADC Stakeholder Engagement Workshop from 4 – 5 December 2008 in Pretoria, South Africa. The workshop was facilitated by the New Partnership for Africa's Development (NEPAD) Secretariat in collaboration with the Flemish Government and the Southern Africa Trust who paid for her trip. She was specifically involved in the session on "The Role of African Universities in Capacity Development". This session was attended by a mix of scholars from universities, research institutes and research networks in Africa. It was a brainstorming session to understand and contribute to how universities/research institutes can play a more visible and effective role in capacity building in Africa. It was recommended that NEPAD should organize another meeting exclusively to discuss the role of universities and research institutes in capacity building in Africa. The ATPS, ANAFE (African Network for Agroforestry Education), RUFORUM (Regional Universities Forum for Capacity Building in Agriculture) and University of Maseno will assist NEPAD facilitate and organize this meeting in 2009. Dr. Adeya-Weya and Dr Sloans Chimataro of NEPAD also met and agreed that the ATPS and NEPAD will explore future avenues for collaboration. One outcome of the meeting is a consultative meeting being organised by NEPAD, CTA, FARA, ANAFE, ATPS, and other colleagues in Ghana to explore strategies to strengthen links between the NEPAD CAADP initiatives and African universities.

Other engagements for the Research and Training Manager

Dr. Adeya-Weya also attended a 5 day residential Corporate Governance Training Course for Directors in Mombasa, Kenya from 25-30 May 2008. She was nominated by the Kenya ICT Board as a member of their Board of Directors. The Kenya ICT Board paid for the training which inter alia covered:

- Principles and practice of Corporate Governance;
- The Effective Board and Corporate Control;
- Financial Reporting and Risk Management;
- Corporate Accountability and Disclosure;
- Corporate Governance, ICT and Knowledge Management, and
- The Professional Advisor

Dr Adeya-Weya also attended the Feminist Tech Exchange (FTX) Training at the Monkey Valley Resort in Noordhoek, South Africa from 9-13 November 2008. The FTS training was a precursor to the '11th AWID International Forum on Women's Rights and Development' held in Cape Town, South Africa from 14-17 November 2008. Her trip was financed by the Association for Progressive Communications (APC). Over 100 women from different parts of the world attended the Feminist Tech Exchange (FTX) Training and over 2000 attended the AWID forum. The main objectives of the FTX training were to discuss where communication rights fit into women's movements and how to reclaim technology for women's empowerment ■

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.

Working Paper Series:

Papers published under the Working Paper Series (WPS) are produced from the ATPS small grants process or from regional projects. The ATPS researchers are encouraged to produce final drafts of their research reports in an easy-to-read and understand form. These are first published as WPS and disseminated widely. Researchers are encouraged to address any comments received from stakeholders before submitting articles to international journals for publication. The following is the WPS published in 2008.

- Kouakou J. (2008) Développement d'une Zone Humide Simulée Plantee avec Amaranthaceae et Capri: Aridaceae Pour le Traitement des Eaux Usees Domestiques. ATPS Working Paper Series No. 50 <http://www.atpsnet.org/pubs/workingpaper/Working%20Paper%20Series%2050.pdf>

Technopolicy Briefs

Technopolicy Briefs Series are commissioned short papers written by experts from all over the world specifically to address current science and technology policy concerns and questions in Africa. The briefs are also summaries of technical papers published under our WPS, SPS and RPS written to highlight significant policy recommendations. These briefs are written with the busy policymakers and non-specialists in mind. The materials are designed for general readership and help advance the advocacy and knowledge brokerage roles of the ATPS. The technopolicy briefs published in 2008 include:

- Powell, R., (2008) How to Write an Effective Science Story ATPS Technopolicy Brief Series No. 20* <http://www.atpsnet.org/pubs/brief/Technopolicy%20Brief%2020.pdf?pno=870>
- Coulibaly, L., (2008) Epuration des Eaux Domestiques Usees par des Plantes Alimentaires: Amaranthus hybridus et Corchorus olitorus ATPS Technopolicy Brief Series No. 21* <http://www.atpsnet.org/pubs/brief/Technopolicy%20Brief%2021.pdf?pno=870>
- Mongbo, R., (2008) Politique d'Etat et Pratiques Populaires dans l'Approvisionnement en Eau au Bénin : Quelles Leçons, Quelles Perspectives ? ATPS Technopolicy Brief Series No. 22* <http://www.atpsnet.org/pubs/brief/Technopolicy%20Brief%2022.pdf?pno=870>
- Urama, K., Davidson, G., (2008) Bordering on a water crisis: The need for integrated resource management in the Mara River Basin ATPS Technopolicy Brief Series No. 23 <http://www.atpsnet.org/pubs/brief/Technopolicy%20Brief%2023.pdf?pno=870>



Special Paper Series

Papers published under the ATPS Special Paper Series (SPS) are those commissioned by the ATPS as concept papers, think pieces, leading conference papers and keynote addresses. In keeping with our knowledge brokerage function, ATPS publishes, with the permission of the author(s) or journal editors, papers (published or unpublished) produced by distinguished academics/ researchers for a different purpose but judged by ATPS to be of excellent quality. The SPS published in 2008 include:

- Oriare, Peter. (2008) Barriers between Scientists and Journalists: Myth or reality? Special Paper Series 35* <http://www.atpsnet.org/pubs/specialpaper/SPS%2035.pdf?pno=870>
- Owuor O. (2008) The Challenges of Communicating Science: A journalist's perspective. African Technology Policy Studies (ATPS) Special Paper Series 37* <http://www.atpsnet.org/pubs/specialpaper/SPS%2037.pdf?pno=870>
- Diyamett B.; Komba A.A., (2008) Tanzania Cluster Initiative Project: An Evaluation Report from the Eight Cluster Initiatives. African Technology Policy Studies (ATPS) Special Paper Series 38* <http://www.atpsnet.org/pubs/specialpaper/SPS%2038.pdf?pno=870>

Reports

- Urama C.K (ed.), Davidson G., Langan S. (2008) Towards An Integrated Transboundary River Management Policy Development in Semi- Arid River Basins. Proceedings of the Pan-African Stakeholder Policy Forum: Arusha, Tanzania. <http://www.atpsnet.org/pubs/workshop/Proceedings%20Intrepid.pdf>
- Urama K., Adeya-Weya, C., Mwangi L., (ed.) (2008) Science, Technology and Climate Change Adaptation in Africa, Proceedings of the ATPS Annual Conference and Workshop, Johannesburg, South Africa. <http://www.atpsnet.org/pubs/workshop/Joburg%20Conference%20Report.pdf>
- Urama K., Adeya-Weya, C., (ed) (2008). Science, Technology and Innovation for African Development. ATPS 2007 Annual Report <http://www.atpsnet.org/pubs/workshop/Joburg%20Conference%20Report.pdf>

Newsletters

- ATPS Newsletter. January to July 2008: Issue Number 23 <http://www.atpsnet.org/pubs/newsletter/ATPSNEWSLETTER-SEP08.pdf>
- ATPS Newsletter. July to December 2007: Issue Number 22 <http://www.atpsnet.org/pubs/newsletter/ATPS%20Newsletter%202007b.pdf>

Others Published by ATPS Researchers

- Kakooza J. (2008) Ecological Sustainability through Ecosan for Kampala Slums (2008; pp). In sharing Innovative Experiences "Cities, Science and Sustainability" (2008), Third World Academy of Sciences (TWAS) Trieste, Italy.
- Kakooza J (2008) Application of Ecological Sanitation (EcoSan) to Improve, Environmental Conservation and Agricultural Soil Productivity in Kayunga District, Central Uganda: Plumari Africa Game Lodge, Pretoria South Africa (7-10).
- Coulibaly L., Savane I., Gourene G. (2008) Domestic waste water treatment with a vertical completely drained pilot scale constructed wetland planted with *Corchorus oliverius*. African Journal of Agricultural Research. 3 (9), 587-596.
- Amu-Mensah, F. K., (2008). National Dissemination Workshop on Preliminary Findings of ATPS Water and Environment Study. ATPS Ghana.
- Olokesusi, F., (2008), An appraisal of the Water and Sanitation Policy Instruments in ECOWAS" Journal of the Nigerian Institute of Town Planners.
- Olokesusi, F., (2008). "Future Direction for Environment Policy in the ECOWAS", Research for Development.
- Amu-Mensah Frederick K., (2008). National Dissemination Workshop on Preliminary Findings of ATPS Water and Environment Study ATPS Ghana .
- Mutua, F., (2008). Challenges for Water Resources Management in Africa: Policies and strategies. ATPS conference– Arusha, Tanzania.
- Pullanikatil, D., and K. C. Urama (in press). The Effects of Industrialization on Water Quality and Livelihoods in Lesotho, International Journal of Environment and Waste Management.

A complete list of all ATPS publications is available on <http://www.atpsnet.org/pubs/index.html>.



PARTNERSHIPS



Science, Technology and Innovations
for African Development





PARTNERSHIPS

ATPS STI Fellowship Program

To foster greater synergies and cooperation amongst STI researchers, policymakers and private sector actors, the ATPS introduced a Fellowship Program to which all STI researchers, policy makers and private sector actors are invited to apply. A Fellowship application form can be found on the ATPS website (<http://www.atpsnet.org/about/Fellowship%20form.pdf>). The applications received has been very encouraging with applications received from colleagues in Harvard University, University of West Indies, CSIR-South Africa, University of Yale, University of Guelph, Ontario, Canada, DeMontfort University, UK, University of Rio-De Janeiro, University of Sidney, Centre for Development Research, Bonn, Germany; University of Ottawa, University of East Anglia, UK, and few Government Ministries and Parastatals in Kenya and Nigeria, etc.

The application process remains open and will be considered at pre-determined intervals by the ATPS Fellowship Selection Committee. The Committee assists in short-listing a core team of Fellows under a number of pre-agreed categories: ATPS Responsible STI Advisory Committee; ATPS Resource Persons; ATPS Science-Policy Interface Committee (Policy Liaison Officers), and ATPS Honorary STI Fellows. You are invited to nominate relevant experts in the policymaking, academic and private sectors within your networks who could be approached to join the Fellowship program.

The goal is to create a web-hosted database of STI actors in the continent and globally. This will serve as a resource for both policy dialogue, selection of resource persons, peer reviewers, collaborators in grant applications and policy advocacy. We have since seen a proactive engagement by the confirmed members of the STI Advisory Committee in initiating fundraising proposals for the ATPS and also in advocating the interest of the

ATPS globally. Some members of the STI Advisory Board have visited the ATPS Secretariat to discuss funding initiatives and provide advice to the Executive Director on emerging STI issues to address. Amongst such members include Prof. Norman Clark of Open University, UK; Prof. Bob Orskov of the Orskov Foundation, UK, etc. The ATPS Secretariat Management Committee finds a lot of encouragement in the support and advice received from the STI Advisory committee members so far.

Institutional Collaboration Initiatives

The ATPS has initiated memorandums of understanding with relevant institutions working on science, technology and innovation systems related subjects for African development. The aim is to build on comparative advantages of the different institutions, build synergies for value addition and mitigate unnecessary duplication of work in the STI policy research arena.

In addition to the MOUs with NEPAD, ACTS, UNESCO, UK-POST, UNU-MERIT, RMRDC, ASEE etc which are already in place, a number of MOUs which have been initiated under the ATPS Phase VI Strategic Plan are at different stages of processing. This includes WWF-EARPO (concluded and signed), the European Joint Research Council, Italy (draft under review), the African Institute for Applied Economics, Nigeria (draft under review); the International Society for Ecological Economics (signed for the management coordination of the ISEE 2008 conference, and an MOU for long term institutional collaboration initiated); the African Society for Ecological Economics (signed, leading to a joint staff appointment); University of Yale, USA (Discussion ongoing), and many others are at inception stages.

MOU with WWF-EARPO, July 28, 2008

ATPS signed a Memorandum of Understanding (MoU) with WWF-EARPO on July 28, 2008. The MoU lays a



foundation for the two institutions to cooperate and participate in environmental and natural resource management through policy, research and capacity building programs. Under this agreement, WWF-EARPO will provide technical assistance and scientific information to ATPS in sustainable environmental and natural resources management based on national, regional and international experiences. ATPS on the other hand will work to:

- Increase awareness of knowledge for development and bridging the policy - research gap through deliberative events and participatory workshops to engage the stakeholders in policy issues across Africa; and
- Foster exchange of information and ideas among researchers, government officials, civil society and private sector at local, national, regional and international levels to widen options for policy change, and
- Provide technical support on STI policy related subjects.

The MoU was signed concurrently with the ACTS and WWF-EARPO. It was noted that the three institutions provide complementary skills and experience and hence working together would deliver better results. The ATPS is committed to building strong collaborative links with like minded STI related institutions and stakeholders in the continent and globally to help deliver on STI capacity development, at least costs. It has been observed that the current STI arena in Africa consists of many actors who are often working in isolation and in some cases, competing with each other for the scarce donor resources. This often leads to fragmented approaches to STI capacity building in the continent and in some cases, duplications of efforts and programs funded by different donors. The ATPS experience in the past has been that adopting a consortia model of STI capacity building is often more cost effective and efficient as each institution brings to the activity areas of core experience and comparative advantages. The ATPS therefore aims to play the role of brokering symbiotic collaborations amongst STI institutions and actors in Africa in order to achieve greater impacts by harnessing synergies where possible. We propose to embark on a mapping of STI institutions and development partners working on STI capacity building in Africa to explore the synergies that might be harnessed in future. The Secretariat will

appreciate your support in identifying keys actors with whom we can develop linkages for consortia based initiatives. This approach is firmly rooted in the belief that together, we can effectively respond to triple crisis of financial turmoil, global poverty and climate change through STI capacity building in developing countries.

These threats would become an opportunity if it forces a re-focusing of global investments in the right things, such as building institutional and individual STI capacities in the right sectors such as renewable energy and sustainable green transport and communication/global marketing systems; development and use of indigenous technologies, nanotechnology and nanoscience, biotechnology, and cost-effective climate change adaptation technologies, e-technologies, etc for agricultural production, agro-processing and food distribution/marketing, ecosystems management, and poverty reduction. Scaling up public spending in the forms of "bail-out packages" to reboot the Global Financial Sector would only achieve sustainable outcomes if the other parts of the stressors (climate change and global poverty) are adequately addressed.

Towards Building Research Capabilities in Development Management and Innovation – An ATPS/OU/ACTS initiative

ATPS is collaborating with the Open University (OU), UK and the African Centre for Technology Studies (ACTS) on a proposal to build research capabilities in development management and innovation. The proposal builds on existing part-time, distance learning courses from the OU. It is expected that course participants will include middle level managers, officers and practitioners in a range of policy-oriented, governmental, non-governmental and private organizations and institutions working in development. Candidates will be working on investigative, problem-solving or policy development roles, but will not necessarily have academic research training (even if they are working as investigators). The ATPS liaised with Prof. Norman Clark (OU) and Prof. Judi Wakhungu, Executive Director of ACTS to conduct a demand assessment for the program via the ATPS national chapters. The proposal has undergone several stages of discussion and has attracted the interest of leading institutions in the UK including the Open University, UK, and Oxford University. Final outcome of the initiative is being awaited in 2009.



ANNEXES

Science, Technology and Innovations
for African Development



SMALL GRANTS RESEARCH

Research Team	Title of Research	Contacts	Status
Prof A.S Gbadegesin	Assessment of Rural Water Supply Management in Selected Rural Areas of Oyo State, Nigeria	University of Ibadan, Ibadan, Nigeria; Tel: (234)0802-387976 Email : adeniyig@yahoo.com	Completed
Rose Mamaa Entsua-Mensah and Charlotte Engmann	Policy Gaps Analysis: The case of community water and sanitation in Ghana	Water Research Institute CSIR P.O. 38, Achimota, Ghana Tel: +233-244-670410 Email: mamaae@yahoo.com	Completed
Dr. Roch Mongbo	Sustainable Management of Wetlands at Local and Community Levels for Biodiversity Conservation and Better Livelihood in the Zou Province, Benin	FIDESPRA/Univ. of Abomey Calava and CEBEDES – XU dodo, 02 BP 778, Cotonou, Benin Tel: +229-21304139/95966446 Email: rmongbo@intnet.bj	Completed
Deepa Pullanikkatil Sajith	Reducing Pollution in Lesotho	Lerotholi Polytechnic P.O Roma 1519, Maseru 100, Lesotho Tel: +266-63072665 Email: d_pullani@yahoo.com	Completed
Henry Raphael Mloza-Banda	Small Scale Rainwater Harvesting for Combating Water Deprivation in a Peri-Urban Area of Lilongwe, Malawi	Associate Professor of Academy, P. O. Box 219, Lilongwe, Malawi Tel: 265-1-277-443 Email: harmlozabanda@sndp.org.mw	Completed
Dejene Aredo and Sewmehon Demissie	Issues for Sustainability and Collective Action in the Management of Lake Water Resources: The case of Lake Tana, Ethiopia	Addis Ababa University, Addis Ababa, Ethiopia Tel: +251-6181505 Email: aredodejene@yahoo.com	Discontinued
Dr. M. C. Moturi and Mr. F. L. Polong	Distribution and Bio-Availability Assessment of Heavy Metals in Sediments from Lake Naivasha, Kenya	Kenya Industrial Research and Development Institute (KIRDI), P. O. Box 30650-00100 Nairobi, Kenya Email: zuriels@yahoo.com	Completed
James Kakooza and Dave Khayangayanga	Ability and Willingness to Adopt Ecological Sanitation as a Water and Environmental Conservation Technology: the case for peri-urban communities of Kampala, Uganda	Makerere Institute for Social Research P.O. Box 937, Kampala, Uganda Tel: +256-78-528722 Email : jakakooza@yahoo.com	Completed
Dr. Lacina Coulibaly	Développement d'un procédé de zone humide simulée planté avec Amaranthaceae, Capparidaceae, Tiliaceae pour le traitement des eaux usées domestiques (Côte d'Ivoire)	UFR-Sciences et Gestion de l'Environnement Université d'Abobo-Adjoné 02 BP 801, Abidjan 02, Côte d'Ivoire ; Tel : +225 07497153 Email : coulacina2003@yahoo.fr	Completed

BASELINE STUDIES TEAMS

Country	Name	Institution	Contacts	Status
Cameroon	Dr. Pius Mbu Oben	University of Buea Buea, SWP Cameroon	Tel: +237 77 77 893 Email: mbuoben@yahoo.co.uk	Completed
	Dr. Ndeso Atanga (Team Leader)	University of Buea Buea, SWP, Cameroon	Tel: + 237-75816047 Email: lawrenkum@yahoo.co.uk	
	Dr. Enoch Tanjong	University of Buea Buea, Cameroon	Tel: +237 332 21 34 Ext. 3106 Email: enoh_tanjong@yahoo.com	

BASELINE STUDIES TEAMS CONTD.

Country	Name	Institution	Contacts	Status
Ethiopia	Dr. Dejene Aredo (Team Leader)	Addis Ababa University, Ethiopia	Tel: +251 1 551163 Email: aredodejene@yahoo.com	Discontinued
	Mr. Denu Berhanu	College of Commerce, Addis Ababa, Ethiopia	Tel: +251 1 518020 Email: berhanud@ethiopnet.et	
	Mr. Yusuf Kedir Hassen	Ethiopian Agricultural Research Organization, Nazareth, Ethiopia	Tel: +251 9628489 Email: yuskedd@yahoo.com	
Ghana	Dr. George O. Essegbey (Team Leader)	STEPRI-C.S.I.R. Accra, Ghana	Tel: +233-21-779401/773856 Fax: +233-21-773068 Email: george_essegbey@yahoo.co.uk	Completed
	Dr. Mamaa Enstua Mensah	Water Research Institute CSIR Achimota, Ghana	Tel: +233-244-670410 Email: mamaae@yahoo.com	
	Dr. F. K. Amu Mensah	CSIR Water Research Institute, Accra, Ghana	Tel: +233-24-4748197 Email: assabil@aim.com or obeyie@gmail.com	
Kenya	Mr. Patrick Kyalo Kituta	Greenglobe Foundation	Tel: +254 20 273 3334 Email: pkituta@yahoo.com	Completed
	Mrs. Millicent Juma Oteyo	Kenya Institute of Management	Cell: +254 722 237374 Email: acfc@africaonline.co.ke	
	Mr. Willis Omondi Odek (Team Leader)	Family Health International (FHI)	Tel: +254 20 282 4000 Email: odekw@yahoo.co.uk	
Nigeria	Prof. M. C. Madukwe (Team Leader)	University of Nigeria, Nigeria	Tel: +234 42 771019 Email: madukwemichael@yahoo.com	Completed
	Mr. Nicholas Ozor	University of Nigeria, Nigeria	Tel: +234 42 771019 Email: nicsuny_ozor@yahoo.com	
	Dr. Shuaibu Iliya Mshelia	Federal University of Technology, Nigeria		
	Ms. Olofunke Aduke Alaba	University of Pretoria, South Africa	Tel: +27 72 438 7458 Email: funkeal@yahoo.com	

REGIONAL REVIEW STUDY TEAM

Region	Name	Institution	Email	Status
ECOWAS	Prof. Femi Olokesusi (Team Leader)	Nigerian Institute of Social and Economic Research (NISER)	femioloke@yahoo.com	Completed
	Dr. George O. Essegbey	STEPRI-S.I.R. Accra, Ghana	george_essegbey@yahoo.co.uk	
	Dr. Coulibaly Lacina	Universite d'Abobo-Ajame (UAA), Abidjan, Cote d'Ivoire	Lacina91@hotmail.com	
	Dr. Ifeyinwa Achike	University of Nigeria, Nigeria	ifeyinwaachike@yahoo.com	
	Dr. Roch L.Mongbo	Universite d'Abomey-Calavi, Cotonou, Benin	rmongbo@intnet.bj	

REGIONAL REVIEW STUDY TEAM CONTD.

Region	Name	Instituon	Email	Status
GREAT LAKES	Prof. Francis Mutua (Team Leader)	University of Nairobi, Kenya	fmutua@mail.uonbi.ac.ke	Completed
	Mr. Abraham Mwesigye	Makerere University, Kampala, Uganda	mwesigye@forest.mak.ac.ug	
	Dr. Semu Ayalew Moges	Arba Minch University, Arba Minch, Ethiopia	Semu_moges_2000@yahoo.com	
SADC	Dr. Musa A. Dube (Team Leader)	University of Swaziland, Swaziland	madube@agric.uniswa.sz	Completed
	Ms. Deepa Pullanikatil	Lerotholi Polytechnic, Maseru, Lesotho	d_pullani@yahoo.com	
	Ms. Charlotte Wonani	University of Zambia, Lusaka, Zambia	cmwonani@yahoo.com	
	Dr. Julius Mangisoni	Bunda College of Agriculture, Malawi	jmangisoni@yahoo.co.uk	
	Ms. Ntjidzi Dube	PACT-Botswana, Gaborone, Botswana	woma66@yahoo.com	



Deloitte & Touche
 Certified Public Accountants (Kenya)
 "Kirungii"
 Ring Road, Westlands
 P.O. Box 40092 - GPO 00100
 Nairobi, Kenya
 Tel: +254 (20) 423 0000
 +254 (20) 444 1344/05-12
 Fax: +254 (20) 444 8966
 Dropping Zone No. 92
 E-mail: admin@deloitte.co.ke
 www.deloitte.com

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

We have audited the accompanying financial statements of African Technology Policy Studies Network (ATPS), set out on pages 18 to 30 which comprise the balance sheet as at 31 December 2008, and the income statement, statement of changes in equity and cash flow statement 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 financial statements in accordance with International Financial Reporting Standards and the requirements of the Kenyan 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 as evaluating the overall presentation of the financial statements.

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

Opinion

In our opinion the accompanying financial statements give a true and fair view of the state of financial affairs of the company as at 31 December 2008 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 purposes 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 balance sheet and income statement are in agreement with the books of account.

Certified Public Accountants (Kenya)

3 March

2009

Nairobi

17

Partners: D.M. Ndongye F.O. Alloo H. Gadroke* D.C. Hodges* J.M. Kiarie M.M. Kisuu J. Nyang'aya S.O. Onyango J.W. Wanga
 * British

Member of Deloitte Touche Tohmatsu

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

INCOME STATEMENT FOR THE YEAR ENDED 31 DECEMBER 2008


Note		2008 US\$	2007 US\$
INCOME	2	847,200	1,234,162
EXPENDITURE		(746 ,089)	(1,135,167)
Project expenditure	3	(90,927)	(102,277)
General administration	3	974	4,315
Interest income	4	(836 ,042)	(1,233 ,129)
SURPLUS FOR THE YEAR		11,158	1,033

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

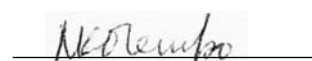
BALANCE SHEET 31 DECEMBER 2008 ASSETS

	Notes	2008 US\$	2007 US\$
ASSETS			
Non current assets			
Motor vehicles and equipment	6	15,943	23,755
Intangible assets	7	1,982	2,953
		<hr/>	<hr/>
		17,925	26,708
		<hr/>	<hr/>
Current assets			
Grants receivable	8	289,723	1,154
Other receivables	9	27,376	24,069
Bank and cash balances		133,984	569,633
		<hr/>	<hr/>
		451,083	594,856
		<hr/>	<hr/>
Total assets		469,008	621,564
FUNDS AND LIABILITIES		=====	=====
Funds			
Accumulated fund		14,154	2,996
		<hr/>	<hr/>
Current liabilities			
Unexpended grants	8	217,680	324,914
Payables and accruals	10	63,720	73,066
Undisbursed grants payable	11	173,454	220,588
		<hr/>	<hr/>
		454,854	618,568
		<hr/>	<hr/>
Total funds and liabilities		469,008	621,564
		=====	=====

The financial statements on pages 18 to 30 were approved by the Directors on 3rd March 2009 and signed on their behalf by:



EXECUTIVE DIRECTOR

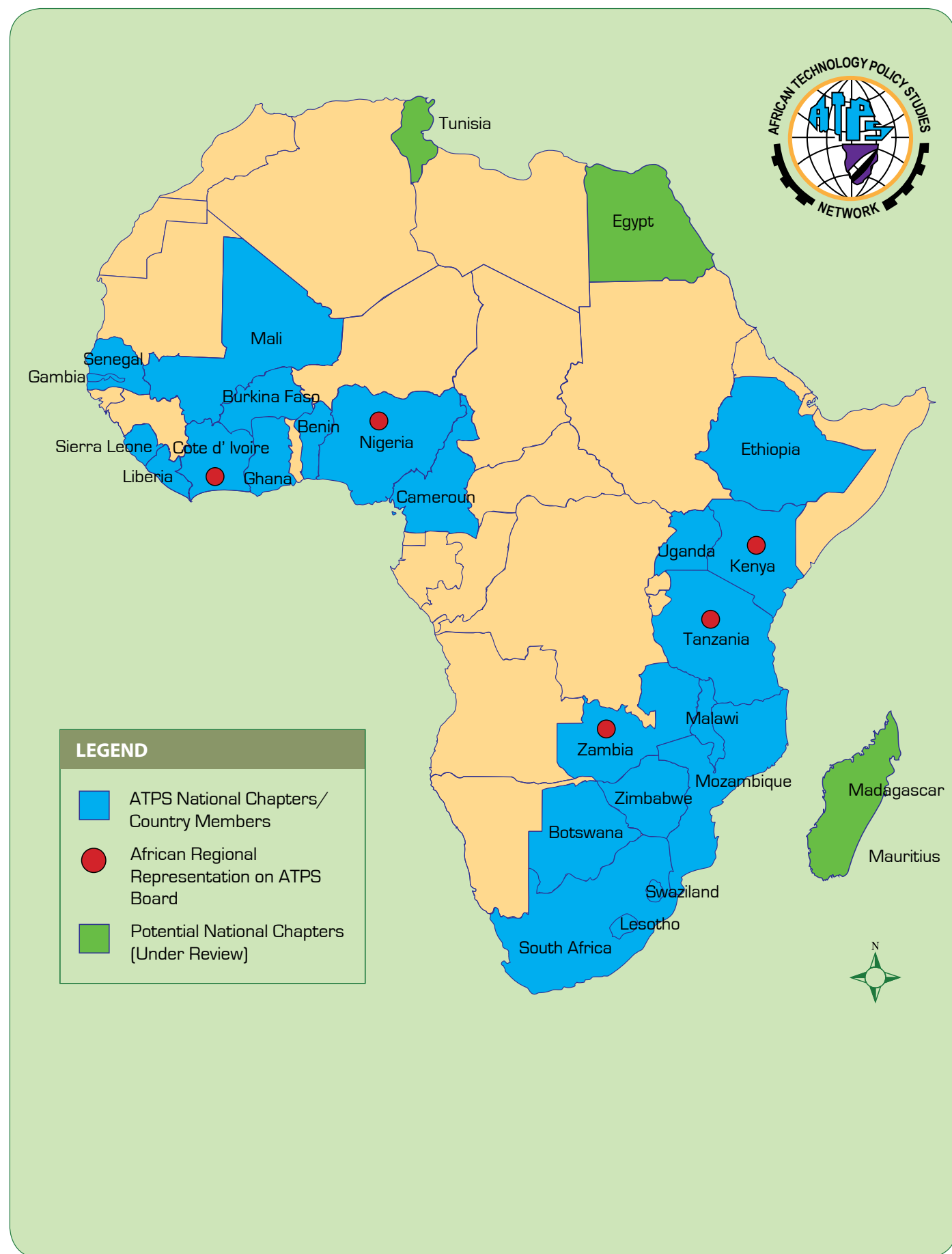


DIRECTOR

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

STATEMENT OF CHANGES IN EQUITY
FOR THE YEAR ENDED 31 DECEMBER 2008

	General Fund US\$
At 1 January 2008	1,963
Surplus for the year	1,033
	<hr/>
At 31 December 2008	2,996
	=====
At 1 January 2007	2,996
Surplus for the year	11,158
	<hr/>
At 31 December 2007	14,154
	=====



ANNEX 4 NATIONAL COORDINATORS

Each National Chapter Coordinator provides intellectual and administrative leadership for ATPS activities in his/her country. The Secretariat funds national chapters out of grants from various donors to perform different tasks. The national chapters provide strategic plans outlining priority areas of research, training and capacity building, and science communication in their various countries. These identified priority areas guide the research, training 1 capacity building and science communication efforts of ATPS at both regional and country levels. ATPS National Coordinators are listed below:

Benin

Dr. Roch L. MONGBO

Senior Lecturer & Researcher
FIDESPRA/Univ. of Abomey Calava and CEBEDES - XU
dodo
02 BP 778
Cotonou, Benin
Tel: +229-21304139
Cell: +2299596 64 46
Email: rmongbo@intnet.bj or
Rochtmongbo@yahoo.com

Botswana

Dr. John MOTHIEI

Lecturer, Faculty of Engineering & Technology
University of Botswana
P/Bag 0061
Gaborone, Botswana
Tel: +2673554348
Fax: +2673952309
E-mail: mothibij@mopipi.ub.bw

Burkina Faso

Dr. Benoit KABORE

Universite de Ouagadougou
01 BP 4487
Ouagadougou 01
Tel: 226 812008/380715
Email: benkabor2003@yahoo.fr

Cameroon

Dr. Sylvester NDESO ATANGA

Lecturer, Epidemiology & Public Health
Faculty of Health Sciences
University of Buea
P.O. Box 63
South West Province
Republic of Cameroon
Tel: + 237-75816047
Cell: + 237- 99841433
Email: ndesoatpscarnet@rocketmail.com

Cote d'Ivoire

Dr Arsene Konan KOUADIO

Chief of Division
Research in Economics
Centre Ivoirien de Recherches
Economiques et Sociales (CIRES)
Cocody, Boulevard Latrille
08 BP. 1295ABIDJAN 08, Cote d'Ivoire
Tel.: (225) 22 444 363 122448942
Fax.: (225) 22 440829
Email: arsenekk@yahoo.fr
arsenekouadio@hotmail.com

Ethiopia

Ms. Sindu Workneh {Acting}

Research Officer
International Food Policy Research Institute (IFPRI)
ISNAR Division, ILRI
P.O. Box 5689
Addis Ababa, Ethiopia
Phone: +251 (0) 11-617-2500
Fax: +251 (0) 11-646-2927
Email: s.workneh@cgiar.org

The Gambia

Mr. Ernest R. AUBEE

Senior Program Operations Advisor
UNDP, UN House
5 Kofi Annan Street, Cape Point
PO Box 553
Banjul, The Gambia
Tel: +220495071/74/89
Fax: +220494758
Email: ernest.aubee@undp.org

Ghana

Dr. Fred AMU-MENSAH

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

Kenya

Mr. Kenneth W. ADUDA (Acting Coordinator)

Projects & Resource Mobilization Manager
Kenya Industrial Research Development Institute (KIRDI)
P.O. Box 54139-00200
Nairobi, Kenya
Tel: +25420609498
Fax: +25420556362
Cell: + 254 721 466444
Email: adudakwo@yahoo.com

Lesotho

Dr. Spirit TLALI

Deputy Dean
National University of Lesotho
P.O. Roma 180
Lesotho
Tel: +26622340601
Fax: +266 22 340000
Cell: +266 63884488
Email: sb.tlali@nul.ls

Liberia

(Vacant)

Malawi

Dr. Julius H. MANGISONI

Senior Lecturer, Agricultural Economics/ Natural Resource
and Environmental Econ.
University of Malawi
Bunda College of Agriculture
Rural Development Department
P.O. Box 219, Lilongwe, Malawi
Tel: +26501277434/419/222
Fax: + 265 01 277364
Email: mang@sdnp.org.mw
or jmangisoni@yahoo.co.uk

Mali

Dr. Sidiki Gabriel DEMBELE

Agrochimiel/Agroforesterie et Fertilité des sols
Bureau Ouest-Africain d'Appui Organisationnel et de
Technologies Appropriées
B.P. E 3730, Bamako, Mali
Tel: (223) 2262012
Fax: (223) 2262504
Cell: (223) 71 3806
Email: sidikigabriel@hotmail.com or
ousmanenia2000@yahoo.fr

Mozambique

Eng. Lourino Alberto CHEMANE

ICT and Planning Advisor
Executive Secretariat, ICT Policy Commission
Bairro da Coop
Rua Particular Dr. Antonio de Almeida
61 RiC Direito, Maputo
Mocambique
Tel: +25821309398
Fax: +25821302289
Email: chemane@infopol.gov.mz

Nigeria

Prof. Michael C. MADUKWE

Professor, Department of Agricultural Extension
University of Nigeria
Nsukka, Enugu State
Nigeria
Tel: +23442771019
Fax: +23442771500
Cell: + 234 803 700 6968
Email: madukwe@hotmail.com or
madukwemichael@yahoo.com

Prof. Femi OLOKESUSI

Nigerian Institute for Social
and Economic Research (NISER)
P.M.B 5 ill Post Office
Oyo Road, Ojoo, Ibadan, Nigeria
Tel: +23428103345/8102904
Fax: +23422413121
Email: femioloke@yahoo.com

Senegal

Dr. Papa Alioune Sarr NDIAYE

ESP BP 15475 DAKAR Fann
Senegal
Tel: Bureau (221) 86454 18
Fax: (221) 8642143
Domicile (221) 82023 88
Cellulaire (221) 634 58 88
Email: pndiaye@ucad.sn or papealiounen@yahoo.fr

Sierra Leone

Mr. Chris SQUIRE

Head, Dept of Mechanical Engineering
University of Sierra Leone
clo Computech, 22 Pultney St.
P.O. Box 603, Freetown, Sierra Leone
Tel: +23222227831
Fax: +23222227453
Cell: +23276610600
Email: chris@sierratele1.sl or
Chris_b_squire@hotmail.com

South Africa

Dr. Rubin PILLAY

Senior Lecturer
Department of Management
University of Western Cape
Bellville, Capetown, South Africa
Tel: + 2721-959-3214
Fax: +2721-391-3026
Cell: +27824652010
Email: rpillay@uwc.ac.za

Swaziland

Dr. Musa DUBE

Senior Lecturer
Faculty of Agriculture
University of Swaziland
Luyengo Campus
P. O. Luyengo, Swaziland
Tel: +2685274021
Fax: +2685274021
Cell: +2686181579
Email: madube@agric.uniswa.sz

Tanzania

Ms. Bitrina D. DIYAMETT

Senior Scientific Officer
Tanzania Council for Science and Technology (COSTECH)
P.O. Box 32183
Dar es Salaam, Tanzania
Tel: + 007 222 700745/752
Fax: +007222775313
Cell: +007784420850
Email: bitrind@yahoo.com

Uganda

Prof. Joseph OBUA

Faculty of Forestry & Nature Conservation
Senior Lecturer
Faculty of Agriculture
Makerere University
P.O. Box 7062
Kampala, Uganda
Tel: +25641543647
Fax: +25641533574
Cell: +256 77 444 492
Email: obua@forest.mak.ac.ug

Zambia

Ms. Charlotte M. WONANI

Lecturer
Development Studies Dept.
University of Zambia
P.O. Box 32379
Lusaka, Zambia
Tel: +2601252514/292884
Fax: +2601253952
Email: cmwonani@yahoo.com

Zimbabwe

Mr. Benson ZWIZWAI

Deputy Director
Institute of Development Studies
P.O. Box 880
Harare, Zimbabwe
Tel: +263 4 333341 / 3
Fax: +263 4 333345
Email: bmzwizwai@science.uz.ac.zw

The ATPS-NCRSC comprises elected representatives of the regions covered by the ATPS in sub-Saharan Africa including the Western, Eastern, Southern, and Francophone regions. The committee serves as a liaison between the National Chapters and the Secretariat with the primary goal of proactively engaging the Secretariat in developing, monitoring and coordinating the STI capacity building activities of the ATPS chapters in each region. Each committee member represents a constituency of ATPS national chapters in his/her region. Members of the ATPS-NCRSC meet with the ATPS Board and the ATPS Secretariat annually during the ATPS annual conferences and workshops to participate in the review of the activities of the ATPS at the regional and sub-regional levels.

Dr. Kevin Urama, Chair

Executive Director
African Technology Policy Studies Network
P.O. Box 10081-00100 , Nairobi , Kenya
Email: kurama@atpsnet.org 2. Dr. Arsène Kouadio,
National Coordinator, Côte d'Ivoire, representing the
Francophone Chapters.
Contact: ATPS Côte d'Ivoire,
E-mail : arsenekk@yahoo.fr . arsenekouadio@hotmail.com

Prof. Femi Olokesusi,

National Coordinator, Nigeria,
representing the West African Chapters
Contact : ATPS Nigeria,
E-mail : femiolokey@yahoo.com

Prof. Michael Madukwe

National Coordinator, Nigeria (Eastern Region),
representing the Western Africa.
Contact: ATPS Nigeria,
E-mail : madukwemichael@yahoo.com

Ms Bitrina Diyamett

National Coordinator, Tanzania ,
representing the East African Chapters
Contact: ATPS Tanzania ,
E-mail: bdiyamett@costech.or.tz ; bitrind@yahoo.com

Dr. Musa Dube,

National Coordinator, Swaziland ,
representing the Southern African Chapters
Contact: ATPS Swaziland ,
E-mail: madube@agric.uniswa.sz

Dr. Sylvester Atanga

National Coordinator, Cameroon,
Anglophone – Francophone Liaison
Contact: ATPS Cameroon ,
E-mail: ndemasa2001@yahoo.com

Dr. George Essegbey , ex-officio member

Former National Coordinator, Ghana,
representing previous National Coordinators
Contact : ATPS Ghana,
E-mail : george_essegbey@yahoo.co.uk

Prof. Aggrey Ambali

Acting Director & Advisor
NEPAD Office of Science and Technology
Tel: (+27) 12 841-3653
Fax: (+27) 12 841-4414
aggrey@nepadst.org

Dr. Philippe Kuhutama Mawoko (PhD)

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

Prof. Wiebe E. Bijker

Faculty of Arts and Social Sciences, Maastricht University
PO Box 616, NL-6200 MD Maastricht
The Netherlands
Tel: +31-43-388 3321
E-mail: W.Bijker@TSS.unimaas.nl
Website: <http://www.fdcw.unimaas.nl/staff/bijker>

Prof. Norman Clark

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

Prof. E.R Orskov

IFRU
Macaulay Institute
Craigiebuckler, Aberdeen AB15 8QH
Tel : +44 1224 395286 (Direct), +44 1224 395000 (Main);
Fax : +44 1224 395035
E-mail: b.orskov@macaulay.ac.uk boboskov@hotmail.com
Website: <http://www.orskovfoundation.org/>

Prof. Andy Hall

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

Prof. Peter H. May

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

Prof. Norah K. Olembo

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

Prof. HODGE, Ian David,

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

Prof. Ishenkumba Kahwa

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

Prof. Lynn K. Mytelka

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

Dr. George O. Essegbey

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

Prof. Francis Mutua

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

Dr. Kevin Urama (ATPS Secretariat Representative)

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

Dr. Catherine Nyaki-Adeya (ATPS Secretariat Representative)

Research and Training Manager
African Technology Policy Studies Network (ATPS)
P.O. Box 10081-00100
Nairobi , Kenya
Tel: +254 20 2714028
E-mail: cadeya@atpsnet.org

Dr. Musa A. Dube - (ATPS National Chapters – Southern Africa Representative)

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

Ms. Bitrina D. Diyamett - (ATPS National Chapters – Eastern Africa Representative)

ATPS-Tanzania National Coordinator
Senior Scientific Officer
Tanzania Council for Science and Technology (COSTECH)
Dar es Salaam , Tanzania
Tel : +255 222 700745/752
Email : bitrind@yahoo.com

Prof. Michael C. Madukwe (ATPS National Chapters – Western Africa Representative)

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

ATPS has an independent and dynamically evolving Secretariat with staff to provide executive direction, and physical infrastructure to the network. The Secretariat is led by the Secretariat Management Committee (SMC) Chaired by the Executive Director and comprises the Finance and Administration Manager; the Research and Training, Research & Training Manager, the Communications and Outreach Manager, the STI Policy Liaison Officer (National Chapters' Liaison Officer); and the Senior Secretary/Administrative Assistant. Other Secretariat staff comprises STI Professionals, Science Communication Experts and administrative support staff. An integral part of the ATPS Secretariat is the youth capacity building Student Internships program.

The SMC provides strategic intellectual and administrative direction to the regional activities of the ATPS. The ATPS has launched the Responsible STI Advisory Council and the ATPS National Coordinators' Regional Steering Committee to liaise with the Secretariat in the implementation and evaluation of ATPS programs. The ATPS maintains an active youth capacity building through Student Internship programs. The ATPS Secretariat Staff in 2008 Consists of:

Dr Kevin Urama	Executive Director
Dr Catherine Adeya-Weya	Research and Training Manager
Richard Murimi	Finance & Administration Manager
Maurice Bolo	Senior Research Officer (On Study Leave)
Carol Thuku	Senior Secretary/Administrative Assistant
Susan Hinga	Receptionist
Richard Muchesia	Driver
Mary Satsiru	Office Assistant

ATPS Youth Capacity Building Student Internship Program

Monicah Kimani	Communications Intern from August to November 2008
Lucia Febechi Okaro	Intern attached to the 10th Biennial ISEE conference from Aug to Sept 2008
Enzinma O. Okonkwo	Intern attached to the 10th Biennial ISEE conference from Aug to Sept 2008
Richard Musungu	Intern attached to the 10th Biennial ISEE conference from Aug to Sept 2008
David Kiereini	Accounts Intern June to December 2008
Trevor Okoth	Accounts Intern January to March 2008
Nelson Akenga	Information Technology Intern July to December 2008

The overall policy-making body of ATPS is the international Board of Directors comprising African and non-African scholars, policymakers and private sector actors. The Board formulates and monitors the implementation of policies and procedures designed to fulfill the network's objectives. To ensure proactive monitoring and evaluation of the activities of the ATPS, both at the regional and sub-regional levels, the Board membership represents the main regions covered by the ATPS: Southern, Eastern, and Western Africa; a representatives of the Francophone speaking countries to address the language barriers and the two representatives of the international community. The Board meets twice each year to review and approve program implementation plans and budgets for each period and assess performance of the Network accordingly. In addition, the respective Board Committees: the Executive Administrative Committee, the Fundraising and Finance Committee and the Responsible STI Advisory Committee ensure active and dynamic engagement with the secretariat for ongoing monitoring and evaluation as required. The current members of the ATPS Board of governors include:

Prof Norah Olembo (Kenya) - Chair

Executive Director,

African Biotechnology Stakeholders Forum
P. O. Box 66069
Nairobi 00800
Kenya
Tel: +254-20-444 4558
Fax: +254-20-444 8762
E-mail: absf@absfafrica.org or noraholemb@yahoo.com

Prof Samuel Wangwe (Tanzania)

Representing the Eastern African Regional Chapters

Chairman, Daima Associates Limited
Daima House, Makumbusho Street, Kijitonyama
P.O. Box 75027 Dar es Salaam,
Tanzania
Tel: +255-22-2771954
Fax: +255-22-2771949
Cell: +255-754-325 487
Email: swangwe@daima.co.tz or swangwe@yahoo.com

Prof Turner T. Isoun (Nigeria)

Representing the Western African Regional Chapters

Former Honourable Minister
Federal Ministry of Science and Technology
New Federal Secretariat
Shehu Shagari Way,
PMB 331 Abuja
Nigeria
Tel: +234-9-523 3397
Fax: +234-9-5234390
E-mail: isoun@aol.com

Prof Lynn Mytelka (The Netherlands)

Representing international community

Professorial Fellow
UNU-MERIT
35, rue Lhomond
75005 Paris, France
CODE de LA PORTE: 357B
Tel: +33 147073790
Fax: +33 147073790
E-mail: lmytelka@gmail.com

Prof Oliver Saasa (Zambia)

Representing the Southern African Regional Chapters

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

Mr Noel Akossi Bendjo (Ivory Coast)

Representing Francophone Africa region

Mayor and Vice Governor
Abidjan District
B.P. V 261 Abidjan
Cote d'Ivoire
Tel: +22520254902
Fax: +22520333039
Email: Bendjo51@yahoo.com

Prof Sir Brian Heap (UK)

Representing international community

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

Prof Oyebanji Oyeyinka

Dr Kevin Urama

Ex-Officio Member

Executive Director

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