WETLANDSFORUM.NET

TRAINING: TEEB FOR WATER AND WETLANDS

Kampala/Uganda, 25-27 November 2013











Dear Participants,

I offer a warm welcome to Kampala and the TEEB for Water and Wetlands training programme.

The pressure on wetlands from agriculture conversion, urban development and a range of pollutants makes them one of the most vulnerable habitats on Earth. A changing climate can magnify those pressures. With increasing needs for national food security in sub-Saharan Africa the loss of wetland habitats is likely to continue apace.

Yet, their value for local and national economies and for global natural capital is grossly undervalued. This workshop provides a basis for estimating the true value of wetlands, that helps political and development agencies better understand the economic benefits of wetland integrity.

The workshop is hosted by UNESCO-IHE, the UNEP TEEB office and the Ramsar Centre for East Africa, with additional support from a number of partners.

I look forward to a stimulating, informative and enjoyable three days,

Prof Kenneth Irvine
Workshop Organizer and
WWF Chair of Aquatic Ecosystems,
UNESCO-IHE



Training materials and online resources

During the course you will receive core lecture materials and background information. An expanding set of additional materials will be provided online at www.wetlandsforum.net. The website contains:

Lecture Slides and Exercises

Electronic copies of all lecture slideshows in PDF format will be provided for download. We also seek to provide our classroom exercises and materials supporting solution templates.

Case examples

Resource persons are asked to provide links to or background materials on case examples presented in class. Please feel free to submit materials on your own case studies for publication on the website.

Advanced Reading

The course aims to provide an introduction to the opportunities offered by the TEEB approach to water and wetlands valuation for improving policy decisions. Please refer to the reading recommendations below and and expanding list published online for more details on individual topics introduced during the lectures, or technical information and manuals on analytical tools and methods introduced.



Recommended Reading

TEEB Essentials

Russi D., ten Brink P., Farmer A., Badura T., Coates D., Förster J., Kumar R. and Davidson N. (2013) The Economics of Ecosystems and Biodiversity for Water and Wetlands. London, Brussels and Gland: IEEP/Ramsar. Online at: http://www.teebweb.org/wp-content/uploads/2013/04/TEEB WaterWetlands Report 2013.pdf

TEEB - The Economics of Ecosystems and Biodiversity (2013): Guidance Manual for TEEB Country Studies. Version 1.0. Online at: http://www.teebweb.org/media/2013/10/TEEB GuidanceManual 2013 1.0.pdf.

Wetlands, Biodiversity and Ecosystems

Darwall, W.R.T., Smith, K.G., Allen, D.J., Holland, R.A, Harrison, I.J., and Brooks, E.G.E. (eds.). 2011. The Diversity of Life in African Freshwaters: Under Water, Under Threat. An analysis of the status and distribution of freshwater species throughout mainland Africa. Cambridge, United Kingdom and Gland, Switzerland: IUCN. Online at: https://portals.iucn.org/library/efiles/edocs/RL-6-001.pdf

Bruce Aylward, Jayanta Bandyopadhyay, Juan-Carlos Belausteguigotia. 2005: Freshwater Ecosystem Services (Millennium Ecosystem Assessment, Volume 3: Policy Responses). Online at: http://www.unep.org/maweb/documents/document.312.aspx.pdf

Valuation Techniques

Fisher, B., Turner, K., Zylstra, M., Brouwer, R., et al. 2008. Ecosystem services and economic theory: integration for policy-relevant research. Ecological Applications 18(8), 2050-2067.

Brander, L.M., Florax, R.J.G.M., Vermaat, J.E., 2006. The empirics of wetland valuation: a comprehensive summary and a meta-analysis of the literature. Environmental & Resource Economics 33, 223-250.

McComb, G., Lantz, V., Nash, K., Rittmaster, R., 2006. International valuation databases: overview, methods, and operational issues. Ecological Economics 60, 461-472.

Intrgrating the value of nature into mainstream economic thinking – opportunities and risks

UNU-IHDP and UNEP, 2012. Inclusive Wealth Report 2012. Measuring progress towards sustainability, Cambridge University Press, Cambridge, online at: www.unep.org/pdf/IWR 2012.pdf

Harmony with Nature, Report of the Secretary-General to the 68th General Assembly (A/68/325), online at: http://daccess-dds-ny.un.org/doc/UNDOC/GEN/N13/429/08/PDF/N1342908.pdf

Kinzig, A.P. et al., 2011. Paying for ecosystem services--promise and peril. Science, 334, pp.603-4.

Kronenberg, J., and K. Hubacek. 2013. Could payments for ecosystem services create an "ecosystem service curse"? Ecology and Society 18(1): 10. http://dx.doi.org/10.5751/ES-05240-180110

Workshop Preparation – Assignment

The training workshop "TEEB for Water and Wetlands" will place emphasis on active learning. The amount of background materials presented has been limited to allow time for exercises and discussions related to actual policy problems. To enable such discussion, <u>all participants are expected to prepare for the workshop!</u>

Preparatory Assignments:

- 1) <u>Introductory reading</u>: Familiarize yourself with the report "The Economics of Ecosystems and Biodiversity for Water and Wetlands".
- 2) <u>Political Context</u>: Note down the three most visible current policy discussions relevant to citizens in your home country. (Not related specifically to wetlands, but overarching national policy priorities dominating the news or rhetoric of politicians.)
- 3) <u>Wetlands management</u>: Select a wetland you are personally familiar with, and make a few notes reflecting on the the following questions
 - a) To what extent are the **values of nature integrated in decision making** regarding this wetland? Is there already good integration, are there obvious opportunities or conflicts?
 - b) What are **issues that need the most policy attention** in your selected wetland? Which environmental, social and/or economic challenges should be prioritized in national policy attention? (Issues might include freshwater availability; desertification avoidance; sustainable rural livelihoods; soil fertility & agricultural productivity; eco-tourism potential; and many more)
 - c) If you were asked to assemble detailed **information about your selected wetland**, how easy or hard would it be to obtain:
 - An overview of the state of knowledge on natural assets their stock, state, changes and roles?
 - An overview of the relevant stakeholders and their main interests and concerns?
 - A plan of how and when stakeholders are engaged in studies and decision making?
 - Documentation of the governance structure in place outlining the roles of those involved?
 - A communication strategy for policies or protection measures related to the wetland?
 - d) How does/could your selected wetland **contribute to the safety and well-being** of the people in your country? Contributions might include, but are not limited to aspects such as
 - protection against natural disasters, e.g. flooding and soil degradation
 - sustainable food sources through productive ecosystems such as fisheries
 - savings on infrastructure by providing natural services for e.g. pollution control
 - poverty alleviation through provision of reliable livelihoods
 - potential for economic development through touristic use of ecosystems and landscapes
 - culture and heritage as sources of both economic opportunities and pride

Notes and Discussion						
	Getting started: • What is the most obvious com-					
	monality between the issues in your wetland and in each of the					
	others? • What is the most obvious differ-					
	ence between the issues in your wetland and in each of the others?					
	Which ideas raised for one of the other countries might be interesting to a study as insert for a disc.					
	ing to study as input for policy making in your case?					

Monday, 25th November 2013

Theme 1: The Value of Wetlands

8:30 Registration

9:00-9:30

Opening Training Workshop "TEEB for Water and Wetlands

Welcome

Paul Mafabi

Coordinator Ramsar Centre for Eastern Africa, Ministry of Water and Environment, Republic of Uganda

Opening of the Workshop

Honourable Guest (tbc)

Ministry of Water and Environment, Republic of Uganda

9:30-10:30

Setting the Stage

Workshop Objectives, Policy Context and RAMSAR

Prof Kenneth Irvine

Workshop Convener & WWF Chair for Aquatic Ecosystems, UNESCO-IHE

Group Introductions, Participant Expectations and overall learning outcomes

Mr Mathew Parr

Senior Advisor Business, Economics and Ecosystems, IUCN NL

Tea Break

11:00-11:45

TEEB and its role in water and wetlands

Introducing TEEB and the TEEB for Water and Wetlands Report

Mrs Sharon Oseku-Frainier

Communications and Outreach TEEB, United Nations Environment Programme (UNEP)

Overview: The TEEB for Water and Wetlands approach and the Country Guidance Manual

Dr Andrew Farmer

Director of Research, Institute for European Environmental Policy (IEEP)

- Introduction of subjects to be elaborated later
- Wetlands and their valuation
- → Introduction to Indicators and policy instrument
- Q & A sessions

11:45-12:30:

Discussion & Exercise One

Facilitator: Andrew Farmer, with support from other resource persons

- ▶ Discussing a familiar wetland: Identifying the importance, ecosystem services and threats
- Exercise "The TEEP Papyrus swamp"
- Learning objective: Linking the local to the regional scale of the wetland for a) its importance and b) the threats

Lunch Break

14:00-15:30:

Group Work: Reporting from Exercise One and the participants' "homework"

Facilitator: Ken Irvine, with support from other resource persons

- → Report back on Exercise One
- ★ Expanding the principles to a diversity of other wetlands familiar to participants
- ▶ Identifying the policy issues that may affect the wetland from local to regional scale
- Reporting on key questions in participants' home countries: Shared experiences, novel approaches
- → Opportunities offered by the TEEB approach

Tea Break

16:00-16:30

Experiences from Uganda and the Region

Paul Mafabi,

Coordinator Ramsar Centre for Eastern Africa (RAMCEA)

- Outline of the wetlands policies and their effectiveness
- → The role of RAMCEA

16:30-17:30

Plenary Discussion: Summary, ideas & key outcomes

Facilitator: Mathew Parr

Senior Advisor Business, Economics and Ecosystems, IUCN NL

Joint Dinner

Tuesday, 26th November 2013

Theme 2: Improving measurement and assessment for better governance and wise use of wetlands

9:00-9:30

Plenary Discussion: Recap Day 1 and Links to Economic Techniques

Facilitator: Mathew Parr

Recap of the 5 key points, follow up discussion and objectives for Day 2

09:30-10:15

Valuation of wetlands: Introduction to field techniques

Dr. Thierry De Oliveira

Lead Economist, Division of Early Warning (DEWA), UNEP

- TEEB and wetland valuation options
- Demonstration of diverse examples
- In context of policy questions –and gaps for indicators
- → -Choice of indicators

10:15-11:00:

Discussion & Exercise Two

Facilitator: Thierry De Oliveira, with support from other resource persons

Tea Break

11:30-12:00

Working with the data: Examples of valuing water

Teddy Tindamanyire

Ministry of Water and Environment, Republic of Uganda

- Water resource valuation in a tropical swamp
- The hidden cost of everyday water issues

12:00-13:00

Group Work: Exercise in valuation

Facilitator: Teddy Tindamanyire, with support from other resource persons

14:00-15:00

Framing Economic Valuation for Ecosystem Services in Policy Context

Dr. Yong Jiang

Department of Integrated Water Systems and Governance, UNESCO-IHE

- → Framing the economic evaluation of wetlands: some basic economic concepts and their links to ecosystems,
- ◆ Shaping valuation from the decision making perspective: economic valuation relevant to policy
- → Links to concepts and indicators introduced in previous sessions
- Valuation and trade offs: a worked example to help decision making

15:00-16:00

Group Work: Exercise in valuation

Facilitator: Dr. Yong Jiang, with support from other resource persons

16:30-17:30

Plenary Discussion: Summary, ideas & key outcomes

Facilitator: Mathew Parr

Senior Advisor Business, Economics and Ecosystems, IUCN NL

Joint Dinner



Wednesday 27th November 2013

Theme 3: Integrating the values of water and wetlands into decision-making

9:00-9:20

Plenary Discussion: Recap Day 2 and Links to Decision Making

Facilitator: Mathew Parr,

Senior Advisor Business, Economics and Ecosystems, IUCN NL

Recap of the 5 key points, follow up discussion and objectives for Day 3

09:20-11:00

Linking valuation to policy

Policy Design and Instruments for specific Policy Decisions

Dr Andrew Farmer

Director of Research, Institute for European Environmental Policy (IEEP)

- Main policy questions from previous sessions and their link to governance
- → Valuation insights to help make specific decisions. How to capture value, the role of indicators and connection with stakeholders
- Regional wetlands, key stakeholders and sectors

Capturing valuation in decision making

Dr. Thierry De Oliveira

Lead Economist, Division of Early Warning (DEWA), UNEP

- Using appropriate analysis
- Pressures and opportunities for wetland management and protection
- "Closing the loop" to case studies presented in previous sessions

11:00 - 12:00

Discussion & Exercise Three (incl. running tea break)

Facilitator: Andrew Farmer, with support from other resource persons

12:00-13:00

Group Work: Dissemination Strategies and Outreach

Facilitator: Ken Irvine, with support from other resource persons

Lunch Break

14:00-15:30

Closing Discussion: Bringing valuation to the wetland - Conclusion and plans

Facilitator: Mathew Parr, with support of all resource persons

- Total recap of the learning results
- Final discussion, conclusions and next steps
- **♦** Evaluation

Results and Ideas						

Meet the teachers



Andrew Farmer

Director of Research,
Institute for European
Environmental Policy (IEEP), London
afarmer@ieep.eu

Andrew is a biologist by training and specialises in EU legislation in relation to water and air pollution, and pollution control policies more widely, including the operation of inspectorates. He has extensive experience of issues arising from EU enlargement, particularly administrative capacity building in candidate and neighbourhood countries.

Andrew also has interest in strategic policy issues such as smart regulation. He is the editor of IEEP's Manual of EU Environmental Policy. Before joining IEEP in 1997, Andrew worked for English Nature as its atmospheric pollution specialist and sustainable development coordinator; prior to that he undertook post-doctoral research at Imperial College and at the Universities of Wisconsin and Florida, USA. He has a degree from Oxford University in natural sciences and a PhD in ecology from St Andrews University.



Thierry De Oliveira

Lead Economist,

DEWA; United Nations Environment

Programme (UNEP), Nairobi

Thierry.Oliveira@unep.org

Thierry de Oliveira joined UNEP in 2000 as an economist in Division of Policy Development and Law (DPDL). Among his major achievements is the poverty and environment initiative, one of UNEP's flagships that he had both conceived and spearheaded for three years. In 2006 he teamed up with the Division of Early Warning (DEWA).

Thierry has been involved in the Millennium Ecosystem Assessment as a lead author, as well as in the UNDP Drylands Initiative, and the Convention on Biological Diversity (CBD) SBSSTA where he has worked on the issues of biodiversity and ecosystems valuation. Thierry was trained as a development economist, with a focus on mathematics. He holds degrees from University of Dauphine Paris (BA), the Graduate School and University Center in New York (MBA and MSc), and Columbia University SIPA New York.



Kenneth Irvine

WWF Chair of Aquatic Ecosystems UNESCO-IHE Institute for Water Education, Delft

k.irvine@unesco-ihe.org

Over 30 years, Ken Irvine has studied aquatic ecosystems ranging from shallow artificial lakes to the African Great lakes, in projects spanning from fundamental research to catchment management responsive to policy needs. The International Wetlandsforum in Kigali in July 2013 and follow-on activities of wetlandsform.net are part of his current focus on developing standards to support Integrated Water Resource Management, and to foster and realise the Wise Use, Smart Plans for African wetlands.

Ken holds a BSc in Biology from the University of Exeter U.K. and PhD from the University of East Anglia, U.K. on Zooplankton ecology. In 2011 he moved to UNESCO-IHE further develop the understanding between human pressures and ecological integrity, focussing on nutrient cycles, management, including the use of constructed wetland for pollution control, and the link between ecological functions and policy.



Matthew Parr

Senior Advisor Business, Economics and Ecosystems, International Union for Conservation of Nature (IUCN), Amsterdam

mathew.parr@iucn.nl

Mathew Parr is a Senior Advisor in Business, Economics and Ecosystems at IUCN Netherlands. He is the Coordinator for the Economics and Ecosystems Group, and Program Manager for the Responsible Shrimp Improvements Program.

Mathew has initiated, developed and managed many projects within the 'business, economics and ecosystem nexus' including: analyzing value chains, advising leading standards and certification processes, organizing multistakeholder sustainability platforms, providing direct advice and training to large corporations on biodiversity and ecosystem management, and building ecosystem based business cases.

He holds has a BA in Economics and Philosophy, and an MSc in Biodiversity Conservation and Management from Imperial College London



Yong Jiang
Lecturer in Water Resource
Economics
UNESCO-IHE Institute for Water
Education, Delft

y.jiang@unesco-ihe.org

Dr. Jiang joined UNESCO-IHE in 2012 as a lecturer in water resource economics in the Department of Integrated Water Systems and Governance. His expertise is environmental and natural resource economics. He provides lectures in water resource economics, watershed economics, benefit-cost analysis, and economic and financial analysis for different modules across MSc programs in the Institute.

Currently, he is involved in several on-going capacity building and research projects, and serves as a mentor advising MSc research including valuing ecosystem services in the lower Zambezi river basin. Previously, Yong was a research assistant professor in the Center for Agricultural Policy and Trade Studies (CAPT) at North Dakota State University in the U.S., where he managed research programs in climate change and policy, carbon markets, and agricultural adaptation.



Sharon Oseku-Frainier

Communications and Outreach
TEEB,
United Nations Environment
Programme (UNEP), Geneva
sharon.oseku-frainier@unep.org

Sharon Oseku-Frainier, holds a Master's Degree in Management and Leadership from Webster University Geneva and a Bachelor's Degree in Mass Communication from Makerere University, Uganda. Previously Sharon was a Fellow with the United Nations Institute for Training and Research (UNITAR) focusing on capacity building and knowledge sharing for groups such as media, researchers and policy actors to address climate change impacts.

Sharon Joined UNEP TEEB Office in January 2013 and focuses on managing and implementing TEEB communication and outreach activities.



Teddy Tindamanyire

Environmentalist / Principal

Environment Officer,

Ministry of Water and Environment,

Kampala

tindamanyiremtt@yahoo.co.uk

Teddy Tindamanyire works as a Principal Environment Officer for the Ministry of Water and Environment in Uganda on Awareness and Education in wetlands management. She is and a passionate advocate for sustainable wetlands management.

She was holds degrees in Education and Human Resources Management and an MSc in Environment and Natural Resources Management. Teddy has worked for more than 15 years in education and public awareness, including engagements as a science teacher at Makerere University and in secondary schools.



Paul Mafabi

Director for Environment Affairs, MInistry for Water and Environment, Uganda, and Regional Coordinator RAMCEA, Kampala

pamfabi@yahoo.co.uk

Paul has over 27 years' experience working on wetland conservation and management issues. He has moved full cycle from doing research on the Grey Crowned Cranes which breed exclusively in seasonal grass swamps to formulating the national wetlands policy for Uganda. He is now preoccupied with setting up the legal and institutional framework for wetland management at national and district levels resulting in the establishment of the Wetlands Management Department which he headed for over five years.

With technical support from IUCN he spearheaded the development of the Wetlands Sector Strategic Plan in 1999. He is at the forefront of the establishment of the Ramsar Centre for Eastern Africa (RAMCEA) and e currently serves as its Regional Coordinator. In January 2013 Paul became the Director for Environment Affairs in the Ministry of Water and Environment of Uganda.

Get inspired – the slightly different reading list

Inspiration and great ideas rarely start with technical instruction manuals. We have asked your teachers to give us some sources of their inspiration, that currently influences their thinking and their approach, or sources they simply think everybody should read. Curious?

Ken

- WILSON, Edward O. The future of life. Random House Digital, Inc., 2002
- CARPENTER, Stephen R., et al. Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment. Proceedings of the National Academy of Sciences, 2009, 106.5: 1305-1312.

Thierry

- CAPRA, Fritjof; The Hidden Connections, Flamingo 2003.
- MCNEILL, John; Something New Under the Sun; Penguin Books, 2000.
- SEN, Amartya; Development As Freedom; Anchor Books; 1999.
- DASGUPTA, Partha; Human Well-Being and the Natural Environment, Oxford University Press; 2001.
- Recommended Website: The Katoomba Group <u>www.katoombagroup.org</u>

Mathew

- PEARCE, David William; MARKANDYA, Anil; BARBIER, Edward B. (ed.). Blueprint for a green economy: a report. Earthscan, 1989 (and its newer editions).
- The best 3 min video on TEEB: http://www.youtube.com/watch?v=HwmQH6HPbaU
- DIAMOND, Jared M.; ORDUNIO, Doug. Guns, germs, and steel. New York: Norton, 1997.
- BAKAN, Joel. The corporation: The pathological pursuit of profit and power. Simon and Schuster,
 2005. (The documentary: http://www.thecorporation.com/?page_id=47)

Sharon

- ALLEN, James. As a man thinketh. 1902. Online at: http://en.wikipedia.org/wiki/As a Man Thinketh
- EHRMANN, Max, Desiderata, 1927. Online at: http://www.cs.columbia.edu/~gongsu/desiderata_textonly.html

Yong

- Atkinson, G., Bateman, I., Mourato, S., 2012. Recent advances in the valuation of ecosystem services and biodiversity. Oxford Review of Economic Policy 28(1), 22-47.
- Freeman, A.M., III, 2003. The measurement of environmental and resource values: theory and methods, 2nd edition, Washington, D.C., Resource for the Future.
- Carson, R.T., 2000. Contingent valuation: a user's guide. Environmental Science and Techonology 34, 1413-1418.
- Carson, R.T., Groves, T., 2007. Incentive and informational properties of preference questions. Environmental and Resource Economics 37, 181-210.

List of Participants

Name	First Name	Affiliation	Country	Mail
Abagana	Ali Laoual	Ministry of Water and Environment	Niger	aliabagana@yahoo.fr
Adey	Samantha	Egerton University	Kenya	samantha.adey@gmail.com
Akwany	Leonard	Wetlands International Kenya Office	Kenya	lakwany@wetlands-africa.org
Amah	Dede	RAMSAR Secretariat	Switzerland	cathyamah@gmail.com
Aruna Sefú	Josué	Association of Farmers Without Borders (AASF) & Societe Civile Environnementale et Agro-Rurale du Congo (SOCEARUCO)	DR Congo	josuearuna@gmail.com
Azab	Amel	Nile Basin Capacity Building Network (NBCDN)	Egypt	a_azab@nbcbn.net
Bagyenda	Robert	International Union for Conservation of Nature (IUCN)	Uganda	Robert.BAGYENDA@iucn.org
Balole Bwami	Ephrem	Institut Congolais pour la Conservation de la Nature, Parc National des Virunga (ICCN)	DR Congo	ephrem@gorilla.cd
Bhanderi	Preetika	Wetlands International Kenya Office	Kenya	pbhanderi@wetlands-africa.org
Bukomeko	Hannington	Makarere University	Uganda	hbukomeko@gmail.com
Chigamane	Emmie Madalo	Ministry of Environment and Climate Change Management	Malawi	madaemmie@yahoo.com
De Oliveira	Thierry	United Nations Environment Programme (UNEP)	Kenya	Thierry.Oliveira@unep.org
Fakarayi	Togarasei	Birdlife Zimbabwe	Zimbabwe	toga@blz.co.zw
Farmer	Andrew	Institute for European Environmental Policy (IEEP)	United Kingdom	afarmer@ieep.eu
Gebrewolde	Afework Hailu	Ethio Wetlands and Natural Resources Association (EWNRA)	Ethiopia	ewrp@ethionet.et
Hountondji	Fabien C. C.	Global Water Partnership (GWP)	Benin	fabienho@yahoo.com
Irvine	Kenneth	UNESCO-IHE Institute for Water Education	The Nether- lands	k.irvine@unesco-ihe.org
Iyango	Lucy	Ramsar Centre for Eastern Africa, Uganda	Uganda	lyangol2010@gmail.com
Jiang	Yong	UNESCO-IHE Institute for Water Education	The Nether- lands	y.jiang@unesco-ihe.org
Kaggwa	Ronald	National Environment Management Authority	Uganda	rkaggwa@nemaug.org
Kakuru	Willy	Makerere University	Uganda	wnkakuru@yahoo.com
Kane	Abdou Salam	West African Coastal Wetlands Network	Senegal	ak7salam@gmail.com
Kanyambiwa	Sam	Albertine Rift Conservation Society (ARCOS)	UK	skanyamibwa@yahoo.com
Kema	Wande Maduhu	Ministry of Natural Resources & Tourism	Tanzania	wandekema80@gmail.com
Kipkemboi	Julius	Egerton University	Kenya	J_kkipkemboi@yahoo.co.uk
Kyambadde	Richard	Ministry of Water and Environment	Uganda	rich- ard_kyambadde@yahoo.co.uk
Mafabi	Paul	Ramsar Centre for Eastern Africa	Uganda	pamfabi@yahoo.co.uk
Makor	Nyasigin Deng Bar	Ministry of Electricity, Dams, Water and Irrgiation	South Sudan	yasiginpeter@ymail.com
Manyakaidze	Pascal	Shurugwi Partners	Zimbabwe	pascalm83@gmail.com
Mocuba	Jeremias	Eduardo Mondlane University	Mozam- bique	mocuba11@gmail.com
Mugisha	Louis	Ministry of Water and Environment	Uganda	louis.mugisha@mwe.go.ug
Munishi	Pantaleo	Sokoine University of Agriculture (SUA)	Tanzania	pmunishi2001@yahoo.com
Musoma	Richwell	Ministry of Agriculture, Mechanization and Irrigation Development	Zimbabwe	richellmsoma@yahoo.co.uk
Nakimbugwe	Ann	Mukono District Local Government	Uganda	annekavuma@yahoo.co.uk
Nasongo	Serena	Victoria Institute for Research in Environ- ment and Development (VIRED) Interna- tional	Kenya	adedeserena@gmail.com

Name	First Name	Affiliation	Country	Mail
Netshithot- hole	Tshilidzi Edward	Department of Environmental Affairs	South Africa	enetshithot- hole@environment.gov.za
Nimpamya	Jane Gubare	UNDP South Sudan	South Sudan	jane.nimpamya@undp.org
Opaa	Benard Onyango	National Environmental Management Authority	Kenya	benopaa@gmail.com
Oseku- Frainier	Sharon	United Nations Environment Programme (UNEP)	Switzerland	sharon.oseku- frainier@unep.org
Ouadba	Jean-Marie	Institute for Environmental and Agricultural Research (CNRST/INERA)	Burkina Faso	jmouadba@yahoo.fr
Parr	Matthew	International Union for Conservation of Nature (IUCN)	The Nether- lands	mathew.parr@iucn.nl
Rotich Kosgei	Job	Egerton University	Kenya	masultiony@gmail.com
Rukera Tabaro	Simon	National University of Rwanda	Rwanda	simon.rt@gmail.com
Sadiki	Laisser	Ministry of Natural Resources and Tourism	Tanzania	laissersadiki@yahoo.com
Simukonda	Chuma	Zambia Wildlife Authority	Zambia	chumasimukonda@yahoo.com
Tindamanyire	Teddy	Ministry of Water and Environment	Uganda	tindamanyiremtt@yahoo.co.uk
Tumwesigye	Gard	Makarere University	Uganda	gardtumwesigye@gmail.com
Tumwesigye	Robert B.	Pro-biodiversity Conservationists in Uganda (PROBICOU)	Uganda	tumwesigyeus@yahoo.com
Umutoni	Augusta M. C.	Energy, Water & Sanitation Authority, Rwanda	Rwanda	augumutoni@gmail.com
Wathigu	Francis Kagema	Nature Kenya	Kenya	nkcoast@naturekenya.org



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"In the face of rising water demands for energy, agricultural, industrial and social development, securing sufficient water to sustain the life-supporting functions and services of the world's rivers, lakes and wetlands is among the most significant challenges of the 21st century."

The Global Water Crisis: Addressing an Urgent Security Issue (InterAction Council, 2012)

In partnership with:







Wetlandsforum.net - Project Office

UNESCO-IHE - WSE Westvest 7 2611 AX Delft The Netherlands

T: +31 15 215 1 873

<u>TEEB@wetlandsforum.net</u>

http://www.wetlandsforum.net/