

# WORKSHOP

## BRIDGING RESEARCH, TECHNOLOGY AND DEVELOPMENT: SUSTAINABLE WATER RESOURCE MANAGEMENT IN EASTERN AFRICA



4<sup>TH</sup>-8<sup>TH</sup> DECEMBER 2006

TIWI BEACH RESORT, MOMBASA, KENYA

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AWF - African Water Facility  
EAWA - East Africa Water Association  
Egerton University  
Austrian Academy of Sciences

with funding from

Austrian  
Development Cooperation

 African Water Facility  
Facilité africaine de l'eau  
Mobilising Resources for Water in Africa

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## WORKSHOP PROGRAMME

<b>BRIDGING RESEARCH, TECHNOLOGY AND DEVELOPMENT: SUSTAINABLE WATER RESOURCE MANAGEMENT IN EASTERN AFRICA Tiwi Beach Resort, Mombasa, Kenya, 4th – 8th December, 2006</b>	
<b>Sunday, 3<sup>rd</sup> December 2006</b>	
16:00-19:00	Registration
21:00-	Get-together cocktail
<b>Monday, 4<sup>th</sup> December 2006</b>	
08:00-09:00	Registration continues
<b>WORKSHOP OPENING SESSION</b>	
09:00-09:10	Workshop overview: Prof. J.M. Mathooko (Chairperson EAWA)
09:10-09:15	Prof. Thomas Weisse (Austrian Academy of Sciences)
09:15-09:20	Eng Hans Schattauer (AWF-African Water Facility)
09:20-09:25	Mrs Elisabeth Foerg (Austrian Development Agency)
09:25-09:40	Opening speech: HE Ambassador Roland Hauser (Austrian Embassy Nairobi)
<b>1<sup>ST</sup> DAY THEME: RESEARCH &amp; DEVELOPMENT: STATUS, DEMANDS &amp; CHALLENGES</b>	
<b>PLENARY SESSION: Research &amp; Development I (Chair: Prof. J.M. Mathooko)</b>	
09:40-10:00	Water resources and human security (Dr. J. Nkinyangi, UNESCO Africa)
10:00-10:20	The challenges of bridging research, technology and development in East Africa (Prof. S. Wandiga, Univ. of Nairobi).
10:20-10:40	Discussion
10:40-11:15	Tea Break
<b>PLENARY SESSION: Research &amp; Development II (Chair: Prof. S. Wandiga)</b>	
11:15-11:35	Water Sciences and Sustainable Development (Prof. W. Siebel, UMC Potsdam – University of Management and Communication).
11:35-11:55	Status and challenges of research and technology in the water and sanitation sector (Eng. A. Knapp, WSP-Ethiopia, World Bank).
11:55-12:15	Advances in aquatic resources research in East Africa (Dr. J. Kazungu, KMFRI).
12:15-12:45	Discussion
12:45-14:30	Lunch
<b>PLENARY SESSION: Policy/programmes of governments &amp; international agencies (Chair: Dr. C. Gakahu)</b>	
14:30-14:50	Interaction between research and policy (Dr. M. Ikiara, KIPPRA).
14:50-15:10	Bridging the gap between research and policy in wetland management (Mr. R. Kyambadde, Wetland Division, MoWE).
15:10-15:30	Discussion
15:30-16:00	Tea break
<b>PLENARY SESSION: Research/knowledge demands of various stakeholders (Chair: Dr. H. Jung)</b>	
16:00-16:20	Stakeholder demand dimension/spectrum (Dr. C. Gakahu, UNDP).
16:20-16:40	Millennium villages project Siaya (Mr. J. O. Wahonya, Millennium Villages Project).
16:40-17:00	KICAMP – community-based water and sanitation (Mr. Ambrose Makoi, KICAMP - Kinondoni Integrated Coastal Area Management Programme).
17:00-17:20	Institutionalisation of Beach Management Units (BMU) in Uganda: Lake Victoria Basin-LVEMP (Mr. B. Keizire, Fisheries Dept, MAIF, Uganda).
17:20-17:50	Discussion
19:30-	Beach dinner & live music

<b>Tuesday, 5<sup>th</sup> December 2006</b>	
<b>2<sup>ND</sup> DAY THEME: BRIDGING RESEARCH AND DEVELOPMENT</b>	
	<b>PLENARY SESSION: Innovative approaches and tools for bridging the gap (Chair: Prof. D. Mashauri)</b>
09:00-09:20	Tools for identifying stakeholder needs (Prof. F.K. Lelo, Egerton University).
09:20-09:40	Water resource centres: the missing link between research and development? (Mrs. P. Ikumi, NETWAS).
09:40-10:00	Community wetland management planning (Ms T. Kakuze, Jinja Urban Women Wetland Association - JUWWA, Uganda).
10:00-10:30	Discussion
10:30-11:00	Tea Break
	<b>PLENARY SESSION: Integrated Water Resource Management (IWRM) - concept, case examples and perspectives (Chair: Prof. J.O. Onyando).</b>
11:00-11:20	Potential and constraints of IWRM (Prof. D. Mashauri, University of Dar es Salaam).
11:20-11:40	IWRM - a case of the Nile Basin Initiative (Dr. P. Kahangire).
11:40-12:00	IWRM is about policing water resource development and challenges in the practical implementation of IWRM programmes (Dr. T. Damhaug; AWF).
12:00-12:20	Community based river basin management: (Mr. G. Njugi, Burguret Water Users Association, Nanyuki, Kenya).
12:20-12:40	Discussion
12:40-14:00	Lunch
	<b>PLENARY SESSION: Water and sanitation (Chair: Eng. R. Burtscher)</b>
14:00-14:20	Water supply and sanitation: from policy to implementation (Eng. S. Bomukama, Directorate for Water Development – DWD, Uganda).
14:20-14:40	Implementation of water supply and sanitation programmes: strategies and challenges (Mr. J. Maneno, KWAHO).
14:40-15:00	Public-private partnership in the water and sanitation sector (Eng. S. Kiwanuka, National Water and Sewerage Corporation, Uganda).
15:00-15:30	Discussion
15:30-16:00	Tea Break
	<b>PLENARY SESSION: Donor participation in Research and Development (Chair: Prof. Y. Mgaya)</b>
16:00-16:20	African Water Facility - mission and funding opportunities (Eng. H. Schattauer, AWF)
16:20-16:40	Water Sector of the Austrian Development Cooperation (Dr. H. Jung, BOKU University, Water Sector Consultant of ADC).
16:40-17:10	European Union INCO-DEV sponsored projects: ROSA (Dr. G. Langergraber, BOKU University); BOMOSA (Dr. D. Liti, Moi University); FINGERPONDS (Dr. J. Kipkemboi, Egerton University).
17:10-17:30	Discussion
	<b>PLENARY SESSION: Preparations for excursions/field-visits (Chair: Dr. N. Kitaka)</b>
17:30-18:00	Introduction to 5 excursion sites: excursion briefs, objectives, site description (Prof. J.M. Mathooko, Mr. R. Kyambadde, Dr N. Kitaka, Dr. J. Gichuki, Dr. L. Liti.).
18:00-18:30	Break-up into 5 groups

<b>Wednesday, 6<sup>th</sup> December 2006</b>	
<b>3<sup>RD</sup> DAY THEME: FROM THEORY TO REALITY AND EXPERIENCES</b> <b>whole day Excursion/Field-visits</b>	
06:00-	Departure from Hotel
Excursion (1)	Sabaki River Floodplain (Coordinator Prof. J.M. Mathooko; Leader Dr. D. Obura).
Excursion (2)	Arabuko-Sokoke, Kipepeo and Mida Creek (Coordinator Mr. R. Kyambadde; Leader W. Ayiamba; field facilitator Ms. M. Fungomeli, Mrs A. Salim).
Excursion (3)	Mtwapa, Haller Park and Kenyatta Beach (Coordinator Dr. N. Kitaka; Leader Dr. H. Jung; field facilitator Eng. M. Mwamuye).
Excursion (4)	Gazi and Mkurumuji (Coordinator Dr. J. Gichuki; Leader Dr. J. Bosire; field facilitator Mr. G. Maina, Ms. T Matano).
Excursion (5)	Kwetu and Kuruwitu (Coordinator Dr. D. Liti; Leader Prof. F. Lelo; field facilitator Mr. D. Mirera and Ms C. Abunge).
<b>Thursday, 7<sup>th</sup> December 2006</b>	
<b>4<sup>TH</sup> DAY THEME: CONCLUSIONS, RECOMMENDATIONS AND WAY-FORWARD</b>	
	<b>GROUP SESSION: Preparation of excursion-report (Chair: Group coordinators)</b>
09:30-13:00	Preparation of excursion-report and short presentation.
	<b>Excursion objectives</b> <ul style="list-style-type: none"> <li>• Characterising development activities resulting from research &amp; technology.</li> <li>• Identifying research/development demands at excursion sites.</li> <li>• Outlining “challenges &amp; solutions” for excursion sites visited.</li> <li>• Way forward and recommendations.</li> </ul>
13:00-14:30	Lunch
	<b>PLENARY SESSION: Group presentations (Chair: Dr. N. Kitaka)</b> (Each group: 15 min presentation, 5 minutes discussion)
14:30-14:50	Group (1) presentation: Sabaki River floodplain
14:50-15:10	Group (2) presentation: Arabuko-Sokoke, Kipepeo, Mida Creek
15:10-15:30	Group (3) presentation: Mtwapa, Haller Park and Kenyatta Beach
15:30-15:50	Group (4) presentation: Gazi and Mkurumuji
15:50-16:10	Group (5) presentation: Kwetu and Kuruwitu
16:10-16:30	Tea break
	<b>PLENARY SESSION: Synthesis on bridging Research &amp; Development (Chair: Prof. K. Mavuti)</b>
16:30-17:30	Discussion and way forward
<b>WORKSHOP CLOSING SESSION (Chair: Dr. L. Mwebaza-Ndawula)</b>	
17:30-17:45	Closing speech: Guest of honour (His Worship the Mayor S. A. Shekue Mayor of Mombasa).
21:00-	Live music

**Friday, 8<sup>th</sup> December 2006**

**5<sup>TH</sup> DAY: REGIONAL MEETING OF EAWA (EAST AFRICA WATER ASSOCIATION)**

09:00-09:15	Welcome and opening of the regional EAWA Meeting (Prof. J.M. Mathooko)
09:15-10:30	Report on activities and developments by national EAWA-chapters (EAWA secretaries: Dr. N. Kitaka, Mr. R. Kyambadde, Eng. R. Nyamwihura).
10:30-11:00	Tea break
11:00-13:00	Discussing mission/vision, objectives and EAWA constitution amendments (comparative advantages of EAWA; linkages to other networks; appropriate organizational structure).
13:00-14:30	Lunch
14:30-15:30	Election/voting national EAWA councils and regional EAWA council.
15:30-16:00	Tea break
16:00-17:30	Discussing EAWA working programme for 2007-2009 (strategic plan, activities and measures), production of final report of Mombasa workshop; planning measures for disseminating results of Mombasa workshop).
21:00-	EAWA party

## EXCURSION DESCRIPTIONS

### (1) SABAKI RIVER FLOODPLAIN

Coordinator: Prof. J.M. Mathooko  
Leader: Dr. D. Obura

The river Sabaki floodplain is located at the River Sabaki Delta.

Major issues are:

- Sediment input into the ocean, also affecting the coral reefs and other organisms.
- Artisanal fisheries, i.e. prawns, catfish, tilapia and haplochromine.
- Dislodged or relocated vegetation, e.g. banana plants, *Prosopis juliflora* (with the later having been declared a weed in Kenya by NEMA).
- Other freshwater organisms, e.g. Crocodiles and hippos.

### (2) ARABUKO-SOKOKE, KIPEPEO & MIDA CREEK

Coordinator: Mr. R. Kyambadde  
Leader: Mr. W. Ayiemba  
Field facilitator: Ms. M. Fungomeli  
Mrs A. Salim

#### **Kipepeo- butterfly farming promotion site**

This is a community based project on economic empowerment towards conservation of Arabuko-Sokoke forest complex through alternative use of the forest resources:

- Butterflies and praying mantis are cultured to pupae by farmers, and then sold for economic gains through Kipepeo.
- Honey processing/apiculture
- Future proposed projects on silk worm culturing and development of silk products (yarns).

#### **Mida Creek Arabuko-Sokoke Schools & Ecotourism Scheme (ASSET Project) Kilifi**

This is a community-based project whose main objective is to conserve the Arabuko-Sokoke forest complex and mangrove rehabilitation. The motto focusing the thought of the community toward rehabilitation and conservation of the mangroves is the “Mangroves: A sustainable Future”.

The project stakeholders comprise of:

- Fishermen
- Mida Creek Conservation and Awareness Group.
- “Bidii na Kazi” (Determination & hard work) - Women Group
- Giriama dancers
- Dairy farmers

The main activities undertaken are:

- Educational
- Mangrove rehabilitation through reforestation
- Beach cleaning every 2-3 months
- Board walk and bird watch

The income from the boardwalk is used towards awarding bursaries to students in schools bordering the two ecosystems, i.e. Arabuko-Sokoke forest complex and Mida Creek Mangroves.

#### **Issues arising**

Issues of concern are on diversity loss i.e. bioterrorism or biopiracy through exportation of native species. The main challenge faced by the community is “Year round production sustainability” due to lack of water. However, USAID has started a Community Water Project to enhance irrigation and avail water to households.

### **(3) MTWAPA, HALLER PARK AND KENYATTA BEACH**

Coordinator: Dr. N. Kitaka  
Leader: Dr. H. Jung  
Field facilitator: Eng. M. Mwamuye

#### **Kenyatta Beach**

This is one of the few public beaches near Mombasa city and is situated in the inshore of a Marine Protected Area (Mombasa Marine Park).

Main challenges are:

- Sanitation
- Environmental perturbation
- Coastal erosion

Kenya Wildlife Services (KWS), in conjunction with other stakeholders, has been staging environmental awareness activities at the beach, e.g. environmental day.

The main issues arising from Kenyatta Beach are:

- Establishment of beach facilities such as sanitation, and physical organization of the beach.

#### **Mtwapa Town**

The main issues arising from Mtwapa are:

- Challenges of water quantity/quality and sanitation.

#### **Haller Park**

The main issues arising from Haller park are:

- Ecological transformation of a quarry through ecological manipulation and the possibilities of duplicating the same in degraded ecosystems elsewhere.

### **(4) GAZI - MKURUMUJI FLOODPLAIN**

Coordinator: Dr. J. Gichuki  
Leader: Dr. J. Bosire  
Field facilitator: Mr. G. Maina,  
Ms T. Matano

#### **The Gazi Mangrove site**

The site is located 55 km south of Mombasa in Kwale district at Gazi village and has the following attractions; mangroves, seagrass beds, fishes, coconuts, and beaches.

- The location is a satellite station of the Kenya Marine and Fisheries Research Institute.
- The station undertakes community-oriented projects on “Restoration and Management of Mangroves ecosystems.

The main projects being undertaken at the site are:

- Mangrove resource assessment
- Mangrove reforestation and monitoring
- Biodiversity and ecosystem functions
- Community livelihoods
- Student attachments
- Consultancies mainly carried out by FAO, UNEP, Forest Department, NEMA etc.

The projects that have been carried out at the site have achieved the following impacts:

- Mangrove re-forestation by the community at Gazi; Already 7.5 hectares have been re-forested
- Ecotourism through construction of a 300 m boardwalk across the different mangrove zones



- Coastal erosion prevention
- Limited introduction of mangrove-based apiculture (honey production)
- Management of mangrove forest through thinning of mangroves to allow new seedlings to generate so as to increase production
- Attempts to revive the coastal mariculture of seagrasses and oysters

There is need to address why previous projects such as the community oyster culture and seaweeds projects did not succeed.

#### **River Mkurumuji floodplain in Msambweni**

The river drains into Gazi Creek, creating brackish conditions for mangrove establishment. Activities observed along the river in Msambweni included:

- Small-scale paddy fields
- Some artisanal fishery of freshwater fish mainly the African catfish *Clarias gariepinus*
- Other agricultural activities: livestock, maize, etc.

#### **(5) KWETU & KURUWITU**

Coordinator: Dr. D. Liti

Leader: Prof. F. Lelo

Field facilitator: Mr. D. Mirera  
Ms C. Abunge

#### **Kwetu Project, Mombasa**

This is a “Community Training Centre” targeting the youth on utilization of natural resources using locally available resources. The programmes offered are:

- Mariculture; crabs, fish and prawn culture
- Food processing
- Neem processing (soap and other products)
- Organic farming
- Apiculture (Bee keeping)
- Entrepreneurship skills
- Life skills, i.e. conflicts, sexuality (HIV/AIDS), etc.
- Outreach programmes.

Kwetu empowers the community through technology transfer especially in mariculture in conjunction with CORDIO.

#### **Kuruwitu**

The Kuruwitu fisheries project is considered as the most organized group at the coastal Kenya. The project has received a lot of support from KWS and CORDIO. The project serves as an entry point for establishment of beach management units (BMUs).

The Kwetu project is supported by CORDIO, which was originally a research programme to assess the background and consequences of the 1998 EL NINO and other local phenomena that have resulted in the degradation of coral reefs of the Indian Ocean countries. It has since evolved into a comprehensive programme covering areas such as:

- Ecological monitoring
- Management and policy advice
- Target research on different alternative livelihoods
- Education and awareness
- Networking and communication

The CORDIO programme aims to provide useful information through interlinking/bridging with other stakeholders, e.g. Kwetu, Communities along Diani and Gazi through development of sustainable income generating activities to communities affected by the decreasing productivity of the coastal zone and also provide information to managers and the public.

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