



# Emerging frontiers for African Great Lakes

Promoting blue economy, food security, and conservation

August 5–7, 2019 | Kisumu, Kenya

# Program

## Sunday, August 4<sup>th</sup>

5:00 pm Registration Desk opens

Monday, August 5 <sup>th</sup>		Tuesday, August 6 <sup>th</sup>		Wednesday, August 7 <sup>th</sup>	
8:30 am	Registration	9:00-9:30	Keynote	8:30-9:00	Keynote
9:00-10:00	Opening Ceremony	9:30-10:45	Session 4	9:00-10:15	Session 8
10:00-10:30	Keynote	10:45-11:15	Break	10:15-10:45	Break
10:30-11:00	Break	11:15-11:45	Keynote	10:45-11:15	Keynote
11:00-11:30	Keynote	11:45-1:00	Session 5	11:15-12:45	Session 8 (continued)
11:30-1:00	Session 1	1:00-2:00	Lunch	12:45-1:45	Lunch
1:00-2:00	Lunch	2:00-3:30	Session 5 (continued)   Session 6	1:45-2:15	Keynote
2:00-3:45	Session 2   Session 3	3:30-4:00	Break	2:15-3:30	Session 9
3:45-4:15	Break	4:00-4:30	Keynote	3:30-4:00	Break
4:15-5:00	Session 2 (continued)   Session 3 (continued)	4:30-6:15	Session 7	4:00-5:15	Panel Discussion, Overview and Publication
5:00-6:30	Poster Session	7:00	Banquet	5:15-6:15	Concluding Ceremony
				6:15 pm	Conference Adjourned

## Thursday, August 8<sup>th</sup>

9:00 am Post-Conference Excursion (Optional)

Monday, August 5 <sup>th</sup>	
8:30-9:00	Registration
9:00-10:00	<b>Opening Ceremonies with: Prof. James M. Njiru</b> (Director KMFRI); <b>Dr. Mohiuddin Munawar</b> (President of the AEHMS); <b>Hon. John Safari Mumba</b> (KMFRI Chairman of Board of Management); <b>H.E. Prof. Peter Anyang' Nyong'o</b> (Kisumu County Governor)
10:00-10:30	Key: Eric Odada   Comparative analysis of factors affecting the management playing field for international lake basins: A case study of Lake Victoria in Eastern Africa
10:30-11:00	Break
11:00-11:30	Key: Jeppe Kolding   Freshwater small pelagic fish and their fisheries in major African lakes and reservoirs in relation to food security and nutrition
<b>Session 1. Sustainability of fish and fisheries (Main hall: RAMBARA)</b>	
11:30-11:45	Cyprian Odoli   Enhancing the value of small fish species for food and nutrition security through improved drying and packaging
11:45-12:00	Edna Waithaka   Trends in fishing on Lake Naivasha and their implications for management
12:00-12:15	George Alal   Genetic diversity and population structure of selected lacustrine and riverine populations of African Sharp-tooth Catfish, <i>Clarias gariepinus</i> (Burchell, 1822) in Kenya
12:15-12:30	James Barasa   How many clariid catfish species inhabit Lake Victoria basin, Kenya, today? Insights from molecular and morphological analyses

<b>Monday, August 5<sup>th</sup></b>		
12:30-12:45	George Morara N.	Spatial variations in assemblage and size structure of <i>Oreochromis niloticus</i> (Cichlidae) in Lake Naivasha, Kenya
12:45-1:00	Alice Mutie	Comparative study of <i>Oreochromis niloticus</i> (Linnaeus, 1758) and water quality conditions of adjoined freshwater and alkaline lakes: Lakes Naivasha and Ololdien
1:00-2:00	<b>Lunch</b>	
<b>2. Trends in aquaculture (PARALLEL SESSION, Main hall: RAMBARA)</b>		
2:00-2:15	George Basweti	Does cage fish culture operation influence key physical chemical parameters of the waterbody? A case study of the ecological impact of cages in Lake Victoria, Kenya
2:15-2:30	Kobingi Nyakeya	The genesis of Lake Victoria degradation: Will cage culture redeem its image?
2:30-2:45	Safina Musa	Evidence of organic enrichment of bottom sediment quality from cage culture in a eutrophic lake
2:45-3:00	Erick N. Otieno	Challenges facing small-scale aquaculture farmers in the lake basin: Estimated economic losses owing to predatory birds
3:00-3:15	James Kirimi	Evaluation of protein quality of rations for Nile tilapia ( <i>Oreochromis niloticus</i> ) containing soybean meal, canola meal and sunflower meal as replacements of fishmeal
3:15-3:30	Jonathan Munguti	Fish feeds and cage farming in Lake Victoria: Feed management practices, challenges and opportunities
3:30-3:45	Morine Mukami Ngarari	Use of Kenyan produced <i>Artemia</i> for improved feed quality and increased fish production from aquaculture
3:45-4:15	<b>Break</b>	
4:15-4:30	Mary Opiyo	Dietary probiotics modulates non-specific immunity and gut microbiota of Nile tilapia ( <i>Oreochromis niloticus</i> ) cultured in low input ponds
4:30-4:45	Miriam Wainaina	Effects of a probiotic <i>Bacillus</i> sp. on <i>Artemia</i> nauplii challenged with pathogenic <i>Vibrio parahaemolyticus</i>
4:45-5:00	James Mwaluma	Growth and survival of Mud Crab, <i>Scylla serrata</i> , reared in two culture systems within Mida Creek mangroves, coastal Kenya
<b>3. Ecosystem change and multiple stressors (PARALLEL SESSION, Room: GLAMOURS)</b>		
2:00-2:15	James Kairo	Implications of 1.5 degrees warming to Kenya's aquatic ecosystems
2:15-2:30	Shambel Boki Dabi	Physiological and ion-regulatory responses in Common Carp ( <i>Cyprinus carpio</i> ) exposed to short term copper and ammonia exposure
2:30-2:45	Joseph Kamau	The seasonality of the spatial distribution of dissolved selected metals in Lake Naivasha, Kenya
2:45-3:00	Job Mwamburi	Spatial trends of cadmium and zinc concentrations in water and enrichments in surficial sediments within Nyanza Gulf of Lake Victoria (Kenya)
3:00-3:15	Matthew O'Hare	How to beat a bully: New biocontrol agents and novel remote sensing applications in the fight to suppress water hyacinth
3:15-3:30	Collins Ongore	Effectiveness of biocontrol agents ( <i>Neochetina</i> sp.) on water hyacinth ( <i>Eichhornia crassipes</i> - (Mart.) and implications for ecosystem health restoration in Lake Victoria, Kenya
3:30-3:45	Abera Hailu Degaga	Water hyacinth ( <i>Eichhornia crassipes</i> ) biology and its impacts on ecosystem, biodiversity, economy and human well-being
3:45-4:15	<b>Break</b>	
4:15-4:30	John Malala	Invasive alien species: Impact of the introduced <i>Prosopis juliflora</i> on the fishery and biodiversity of Lake Turkana, Kenya
4:30-4:45	Peter Mwaniki	Barriers to genetic connectivity of the smooth flat sedge ( <i>Cyperus laevigatus</i> ) among alkaline saline lakes of the Eastern Rift valley, Kenya
4:45-5:00	Robert Ondiba	Limnological changes and its implications on the fisheries of Lake Victoria
5:00-6:30	<b>Poster session (Location: outside GLAMOURS)</b>	

<b>Tuesday, August 6<sup>th</sup></b>		
9:00-9:30	Key: Mohiuddin Munawar	Diversity of algal blooms in the Great Lakes of the World: Long-term experience from the North American Great Lakes
<b>Session 4. Eutrophication and HABs (Main hall: RAMBARA)</b>		
9:30-9:45	Jelvas Mwaura	Eutrophication: Sources and drivers of nutrient loading on estuarine and coastal waters of Kenya
9:45-10:00	Babu Miruka	Riverine inputs on phytoplankton diversity and cyanobacterial abundance in Nyanza Gulf, Lake Victoria, with implications on human health
10:00-10:15	Argwings Owino	Changes in phytoplankton community structures in Lake Naivasha, Kenya
10:15-10:30	David Onyango	Review of the current state of knowledge and the impact of microcystin in fish in Lake Victoria
10:30-10:45	Fredrick Guya	Biogeochemical characterization, phosphorus sources and intrinsic drivers to its speciation within Nyanza Gulf – Lake Victoria
10:45-11:15	<b>Break</b>	
11:15-11:45	Key: Ted Lawrence	Approaching Africa's future fresh water challenges through capacity building and collaboration
<b>Session 5. Balancing policy, people &amp; science (Main hall: RAMBARA)</b>		
11:45-12:00	Fonda Jane Awuor	Women in aquaculture in Kenya
12:00-12:15	Cecilai Githukia	Transforming aquaculture in Kenya through gender equality and empowerment for development
12:15-12:30	Jacob Ochiewo	The effect of situation analysis practices on implementation of poverty alleviation mariculture projects in the coast of Kenya
12:30-12:45	Chadwick Henry	Value chain analysis of Lake Turkana tilapia fish as food to the local market to identify investment gaps
12:45-1:00	Jennifer Johnson	Nyanja is not Lake Victoria: Ontological problems and possibilities around an inland African sea
1:00-2:00	<b>Lunch</b>	
<b>Continued: Session 5. Balancing policy, people &amp; science (PARALLEL SESSION, Main hall: RAMBARA)</b>		
2:00-2:15	Johnstone Omukoto	Gains from implementation of a fishery observer programme: Lessons from coastal and marine fisheries in Kenya
2:15-2:30	Horace Owiti Onyango	From how many to how much? Economic and financial valuation of Lake Victoria fisheries, Kenya
2:30-2:45	Karlijn van den Broek	Investigating stakeholders' perceptions of the Nile perch stock dynamics at Lake Victoria
2:45-3:00	Yvonne Githiora	Assessment of local perceptions of climate change impacts in Yala Wetland
3:00-3:15	Hilda Nyaboke	Emerging frontiers for blue growth in African Great Lakes: The potential for recreational fishing industry in Lake Victoria
3:15-3:30	Edward Waiyaki	The potential of seaweed farming to contribute to food security in Kenya: Reflections from Kwale County
<b>Session 6. River and wetland ecology (PARALLEL SESSION, Room: GLAMOURS)</b>		
2:00-2:15	Alfred Achieng'	Development of a rapid bioassessment protocol for monitoring ecological health of riverine ecosystems in Kenya
2:15-2:30	Christopher Aura	Determining a major river catchment that pollutes a lake the most: a proof of concept for management implications
2:30-2:45	Jackson Bunyangha	Historical land cover changes in Mpologoma River catchment, Eastern Uganda
2:45-3:00	Jacob Iteba	Influence of large mammalian herbivores on nutrients and carbon loading, and benthic algal development in the Mara River, Kenya
3:00-3:15	Frank Masese	Baseline determination in stable-isotope studies of Afrotropical lotic systems and implications for tracing energy flow in food webs and calculated trophic positions

<b>Tuesday, August 6<sup>th</sup></b>		
3:15-3:30	Augustine Sitati	Functional organization of benthic macroinvertebrates assemblages as surrogates of ecosystem attributes in the Nzoia River, Kenya
3:30-4:00	<b>Break</b>	
4:00-4:30	Keynote: Martin Van der Knaap	Evaluation of state-controlled monitoring, control & surveillance in relation to fisheries co-management on the Great Lakes of Africa
<b>Session 7. Management: tools, models and collaboration (Main hall: RAMBARA)</b>		
4:30-4:45	Linda May	The sustainable development of the Winam Gulf, Kenya: An ecosystem services approach
4:45-5:00	Daniel Mungai	Modelling the impacts of fishing on trophic interactions in Lake Victoria using ecotroph and ecospace
5:00-5:15	Vianny Natugonza	Ecosystem models of Lake Victoria (East Africa): can Ecopath with Ecosim and Atlantis predict similar policy outcomes?
5:15-5:30	Kevin Obiero	Advancing Africa's Great Lakes research and academic potential: A call for harmonized, long-term, collaborative networks and partnerships
5:30-5:45	Laban Musinguzi	Open data sharing opportunities for conservation of freshwater biodiversity in Africa: Lessons from biodiversity informatics projects in Uganda
5:45-6:00	Joel Onyango	Assessment of grey water footprint for Lake Naivasha, Kenya
6:00-6:15	Jacqueline Kazembe	Molecular characterization of fish for biodiversity management and aquaculture development in Africa: A case study of the African Sharptooth Catfish, <i>Clarias gariepinus</i>
7:00-9:00	<b>Banquet at the Acacia Premier Hotel balcony with traditional dancers and songs</b>	

<b>Wednesday, August 7<sup>th</sup></b>		
8:30-9:00	Key: Peter Odhengo	Blue-Economy-Food Security Nexus: An innovative sustainability model for the Great Lakes
<b>Session 8. Blue Economy in the Great Lakes (Main hall: RAMBARA)</b>		
9:00-9:15	Santiago Gómez-Cardona	Tale of two fisheries: Economics effects of ecological interactions under open access - towards an integrated understanding of market and ecological interactions for Lake Victoria fisheries
9:15-9:30	Beatrice Obegi	Bio-economic modeling of fishing of a Ramsar Lake: The case of Lake Naivasha, Kenya
9:30-9:45	Chrisphine Nyamweya	Bounties of Lake Victoria: A case for blue economic investment
9:45-10:00	Kingsley Kamtambe	Finding common ground: The complexity of marketing small fish of Lake Malawi
10:00-10:15	Dennis Otieno	Impact of industrial wet processing stages on the quantity and quality of Nile perch ( <i>Lates niloticus</i> ) oil extracted from the visceral organs
10:15-10:45	<b>Break</b>	
10:45-11:15	Key: Brian Marshall	Understanding the impact of climate change: A case study from Lake Kariba
11:15-11:30	James Njiru	Kenya marine fisheries: is it the next frontier for economic growth?
11:30-11:45	Gladys Okemwa	The ornamental fish trade: Enhancing opportunities towards Blue Economy growth in Africa
11:45-12:00	Paul Orina	State of cage culture in Lake Victoria, East Africa: A focus on the sustainability, rural economic empowerment and food security
12:00-12:15	Julius Manyala	Sustainable aquaculture development in Eastern Africa: Current knowledge, research priorities and policy implications
12:15-12:30	David Mirera	Rethinking blue economy through aquaculture development: Linking the Great Lakes and the Indian Ocean, a Nile tilapia approach

<b>Wednesday, August 7<sup>th</sup></b>		
12:30-12:45	Tsuma Jembe	Community based natural resource management in the Mara River Basin, challenges and opportunities
12:45-1:45	<b>Lunch</b>	
1:45-2:15	Key: Victor Langenberg	Innovative knowledge governance - How to achieve sustained change to restore the East African lake basins: Case Lake Victoria, from invasive water plants and waste to biofuels in Kisumu, Kenya
<b>Session 9. Lake governance assessment (Main hall: RAMBARA)</b>		
2:15-2:30	John D. Balarin	Application of an Environmental Performance Index, as a new tool for promoting inter-county, integrating water resources governance of Lake Victoria shared lacustrine and lake basin, Kenya. (A case study of Lake Victoria Basin, Kenya)
2:30-2:45	Nicholas Gichuru	Poor management of Lake Victoria fisheries (Kenya): A threat to sustainable fish supplies
2:45-3:00	Enock Mlaponi	Is the current fisheries management intervention in Lake Victoria efficient?
3:00-3:15	James Onchieku	Drivers-Pressure-State-Impact-Response (DPSIR) model as an alternative management tool for Lake Baringo
3:15-3:30	Jane Nyamora	An analysis of institutional, legal and policy frameworks on the management of aquatic resources in Kenya: Challenges
3:30-4:00	<b>Break</b>	
4:00-5:00	<b>Panel Discussion</b>	
5:00-5:15	<b>Conference Overview and Publication Plans with: Martin Van der Knaap and Mohiuddin Munawar</b>	
5:15-6:15	<b>Concluding Ceremony with: Hon. John Safari Mumba (KMFRI BoM Chairman); Prof. Micheni Japheth Ntiba (The Principal Secretary); Hon. Mwangi Kiunjuri (Cabinet Secretary)</b>	
6:15	<b>Adjournment</b>	

<b>Posters</b> (Location: outside GLAMOURS)	
<b>1. Sustainability of fish and fisheries</b>	
Priscilla Boera	The impact of demarcation and protection of critical fish breeding and nursery sites, the case of Lake Naivasha, Kenya
Busolo Bonface	Elucidating influence of interstitial seawater physical and chemical attributes on polychaete ( <i>Marphysa mossambica</i> ) occurrence at Mtwapa Creek, Kenya
Tsuma Jembe	Variation in the distribution and abundance of fishes caught with a bottom trawl in the Nyanza Gulf and open waters of Lake Victoria, Kenya
James Last Keyombe	Has the latest fish introduction in Lake Naivasha improved income of fishermen? The economics of Nile tilapia ( <i>Oreochromis niloticus</i> ) in Lake Naivasha
James Last Keyombe	Have innovative technologies reduced post-harvest fish losses and improved food security along Lake Turkana? Case study of the polyethylene solar dryer
Fenant Mhagama	Economic performance of vertically joined gillnets in Nile perch fishery in Lake Victoria, Tanzania: Who is best performer?
Fatuma Mzingirwa	Population dynamics of <i>Otolithes ruber</i> from commercial prawn trawl by catch in Malindi-Ungwana bay fishery, Kenya
Hilda Nyaboke	Macrophytes management for improved fisheries productivity: Winam Gulf
Cyprian Odoli	Post-harvest management interventions in small-scale fisheries: A boon or bane to food and nutrition security
Caleb Ogwai	Co-infection of the zoonotic <i>Clinostomum</i> sp. and other parasites of the dwarfed <i>Oreochromis niloticus baringoensis</i> , of the Lake Baringo ecosystem
Mary Ontomwa	Hook size selectivity in the handline fisheries of Shimoni, south coast Kenya
Mboni Valeria Elison	Species composition, abundance and diversity in Nyegezi bay, Lake Victoria, Tanzania
Aniceto Zulficar	Assessment of catches of fish in Lake Niassa
<b>2. Trends in Aquaculture</b>	
Christopher Aura	A delineation approach of lakescape for cage culture suitability to minimize lake-use conflicts

## Posters (Location: outside GLAMOURS)

Julie Bwoga	Effects of digenean trematode and monogenean infections on cage cultured Nile Tilapia <i>Oreochromis niloticus</i> in Lake Victoria
Tsuma Jembe	Partitioning of Lake Victoria catchment (Kenya) <i>Oreochromis niloticus</i> (Linne) stocks using randomly amplified polymorphic DNA
Hiram Karanja	Salinity tolerance of fresh water prawn <i>Macrobrachium rude</i> (Heller, 1862) larvae and the potential for aquaculture in Kenya
Alex Kimathi	Growth rates of Eucheumoids (Rhodophyta; Gigartinales) cultured using modified off-bottom and floating raft techniques in the Kenyan coast
Domitila Kyule	Characterization and antibiotic response patterns of bacterial isolates from fish and fish products retailed in Kenyan markets: A case of Kirinyaga County
Julius Maremwa	Wind energy conversion system in aquaculture initiatives in the conservation of Great Lakes of East Africa
Laban Musinguzi	The extent of cage aquaculture, adherence to best practices and reflections for sustainable aquaculture on African inland waters
Venny Mwainge	Current health status, approaches to disease handling and biosecurity application in the cage culture of <i>Oreochromis niloticus</i> : a case study of Lake Victoria, Kenya
Venny Mwainge	Towards sustainability: bio availability of zooplankton as a supplement to exogenous feeds in the cage culture of <i>O. niloticus</i> : A case study of Lake Victoria, Kenya
Job Mwamburi	Fish cage culture in Lake Victoria (Kenya): Fisher community perspectives on the impacts and benefits for better decisions on management and sustainable development of the lake water resources
Grace Nduku	Sex reversal dynamics of Nile tilapia ( <i>Oreochromis niloticus</i> ) and impact on growth performance
Douglas Okemwa	Innovative methods of improving fish feed stability and flotation using local ingredients
Robert Ondiba	Future demands and supply of proteinous aquaculture ingredients: Strategies to commercialize non-conventional dietary protein ingredients for enhanced aquaculture production in Sub-Saharan Africa
Zacharia Shitote	Enhancing project planning education for cage fish farmers in the African Great Lakes: the case of Lake Victoria
Esther Wairimu	Tapping into the Blue Economy through research innovations for marine fish feed development
<b>Session 3. Ecosystem change and multiple stressors</b>	
Gilbert Atuga	Natural attenuation in chlorobenzenes degradation: Case study of Zeebrugge River harbour sediments, Belgium
Samuel Bassa	Ecosystem integrity of the Upper Victoria Nile (UVN), East Africa based on habitat and fish species biotic indices
Joshua Benjamin	Longitudinal trends in macroinvertebrate communities, functional feeding groups and performance of regional biotic indices for bioassessment of the Gura River, Kenya
Priscilla Boera	Using geoinformatics to assess macrophyte populations in Lake Naivasha, Kenya
Chadwick Henry	Ovarian development of the Penaeid Shrimp <i>Penaeus indicus</i> (Decapoda): A case for the Indian Ocean coastal waters of Kilifi Creek, Kenya
Emmanuel Mbaru	Functional traits illuminate the selective impacts of different fishing gears on coral reefs
Charles Muthama	A comparison of ecological attributes in degraded and healthy seagrass beds in coastal Kenya
Vianny Natugonza	Co-existing with reality: lessons learnt from a comparison of calibrated & uncalibrated Ecopath with Ecosim models
Noah Ngisiange	Multi-agent systems and distributed constraint satisfaction for decision support in aquatic ecosystems
Chrisphine Nyamweya	Numerical simulation of long term circulation patterns in Nyanza Gulf, Lake Victoria
C. Nyamweya	Ecological modeling of the Lake Victoria ecosystem
Reuben Omondi	Lake Victoria basin invasive macrophytes and their impact on the environment
Collins Ongore	Recent trends in limnological conditions of Lake Victoria (East Africa): Can climate change be extricated?
Levy Otwoma	Effectiveness of management strategies in conservation and restoration of critical ecosystems: A case study of coral reef ecosystems in southern Kenyan coast
Jacqueline Uku	The status of seagrass beds in the coastal county of Lamu, Kenya
<b>Session 4. Eutrophication and HABs</b>	
Fredrick Guya	Intrinsic and extrinsic sources of phosphorus loading into River Nyando, Kenya

## Posters (Location: outside GLAMOURS)

Charles Kosore	Occurrence and ingestion of microplastics by zooplankton in Kenya's marine environment: first documented evidence
Cecilia Muendo	Effects of phytoplankton and water quality dynamics on Nile Tilapia in breeding concrete ponds at KMFRI, Mombasa Centre
Mohi Munawar	Developing ecosystem health indicators in large lakes: Lake Ontario coastal and pelagic zone example
<b>Session 5. Balancing policy, people &amp; science</b>	
Jacob Abwao	Socio-economic dynamics and sustainability aspects of land based aquaculture in Western Kenya
Lillian Daudi	Community engagement in seagrass restoration: A case study of Wasini, Kwale County, Kenya
Faith Kimanga	Social and economic dimensions of the beach seine fishery in Lamu County, Kenya
Fridah Munyi	Livelihood impacts and adaptation in fishing practices in response to changes in the upwelling region under East African Coastal Current
Cyprian Odoli	Effectiveness of co-management regime in African Great Lakes Fishery: A case study along Lake Victoria, Kenya
Peter Oduor-Odote	Possibilities of using water hyacinth extracts to influence lipid and protein oxidation during storage of solar dried <i>Siganus sutor</i> fillets
Judith Okello	Women in science as agents of positive change amidst the threats of climate change
<b>Session 6. River and wetland ecology</b>	
Elliot Alhassan	Fish fauna and potential fish yield of the Bui reservoir in Ghana during the first 18 months after impoundment
Oscar Donde	Efficacy of macrophyte dominated pond inclusion as post-treatment polishing of domestic wastewater effluents for pollution control within urban lakes
Yvonne Githiora	Assessment of ecosystem services of the Yala Swamp using the Matrix Approach Tool: An initial step to integrated natural resources management
Elijah Kembenya	Life history of threatened African Carp <i>Labeo victorinus</i> from Migori River basin, Kenya
Damaris Kinyua	Influence of land use change on greenhouse gas emission (CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O) in a tropical wetland in Kenya
Ali Makame	Diel patterns of macroinvertebrate drift in River Sosiani, Kenya
Frank Masese	The Savanna River Ecosystem Model: the influence of large mammalian herbivores on the structure and function of savanna river systems
Joseph K. Nyaundi	Organochlorine pesticide (OCP) residues in cultured fish from earthen fish ponds in the heavily populated areas of South Western Kenya
Joseph K. Nyaundi	The occurrence of organochlorine pesticides (OCPs) residues in water samples from rivers in the densely populated areas of South Western Kenya
Veronica Wanjeri	Heavy metals distribution in surface sediment in Athi-Galana-Sabaki River and its ecological implications
<b>Session 7. Management: tools, models and collaboration</b>	
Graca Jaime	Socio-economic assessment of artisanal fisheries on Lake Niassa
Nina Wambiji	Development of a biodiversity database case study: The African Register of Marine Species (AfReMaS)
<b>Session 8. Blue Economy</b>	
Esther Fondo	Sustainable crab fishery for the blue economy in Kenya
Eric Okuku	Water pollution and its impact on blue economy initiative: a lesson learnt from the Kenyan Coast
Eric Odada	Building a resilient future through water - connecting the 2030 Agenda and Paris Agreement
<b>Session 9. Lake governance assessment</b>	
Edward Kimani	Evaluation of the industrial longline fishery from Exclusive Economic Zone of Kenya
James Mugo	Challenges in management of Fish Protected Areas in Lake Baringo, Kenya
Kobingi Nyakeya	A review of studies, and the way forward for sustainable exploitation of Lake Baringo resources: Is there a basis for collaboration and donor funding?