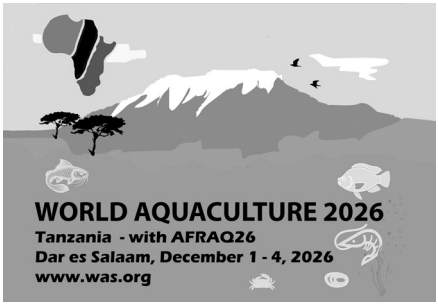

WEDNESDAY, December 2

PLEASE NOTE: PRESENTATION TIMES

WA2026 Tanzania presentations for each session are listed in the order of presentation when the Programme Book goes to press. The presentation times have been omitted because there are many late changes after the Programme Book is printed. The **WA2026 Tanzania Conference APP** will show the presentation times and will be updated during the conference as changes are received. Late cancellations will be marked "Cancelled" in the APP. The **WA2026 Tanzania APP** will have the most current version of the Programme and will better assist attendees in planning their schedules.

Wednesday Break 10:00 - 11:20
Wednesday Lunch 12:40 - 14:20

OPENING AND PLENARY

Wednesday, December 02 10:40 - 12:40 Selous
Master of Ceremony: Austin Makani

OFFICIAL OPENING OF EXHIBITION

10:45 **CULTURAL DANCE WELCOME.** *Dignitaries proceed first to the exhibition entrance, followed by all delegates.* **Ribbon-cutting** *by the* **Hon. Ambassador Dr. Bashiru Ally Kakurwa***, Minister of Livestock and Fisheries and WAS-AC President* ***Dr*** **Khalid Salie***, with dignitaries in attendance.*

11:00 *Delegates take their seats in Selous Hall for the plenary.*

OPENING REMARKS (SPEECHES)

11:10 Tanzania National and East African Community (EAC) Anthems

Opening prayer.

Captain (N) Dr. Hamad Bakar Hamad, Principal Secretary of the Ministry of Blue Economy and Fisheries, Zanzibar, Tanzania, Welcome to Tanzania

11:15 **Prof. Julias Manyala**, Conference Chair, Welcome to WA26T

11:17 **Dr Foluke Areola**, President, World Aquaculture Society

11:20 **Dr Bernice Mclean**, (AUDA-NEPAD), representing the African Union

11:23 **Ms Anne Hahn**, GIZ Country Director, representing the Gold Sponsor, GIZ

11:26 **Dr QU Dongyu**, FAO Director-General (virtual speech)

11:29 **H.E. Hassan Joho**, Cabinet Secretary: Blue Economy and Maritime Affairs, Republic of Kenya *(courtesy of AUDA-NEPAD)*

11:31 **Dr Agnes Meena**, Permanent Secretary, Ministry of Livestock and Fisheries, Tanzania

11:34 **Hon. Ambassador Dr. Bashiru Ally Kakurwa** Minister of Livestock and Fisheries – United Republic of Tanzania

11:37 Opening Speech by **Guest of Honour His Excellence Dr. Hussein Ali Mwinyi,** President of Zanzibar and Chairman of the Revolutionary Council

11.47 **Group photo with Guest of Honour and Departure of Guest of Honour**

KEYNOTE PRESENTATION

11:52 **Prof Peter Britz,**

"Why African Aquaculture Development Needs to Shift from a Technology Transfer Focus to a Value Chain Approach"

12:22 **Dr Kevan Main** (WAS) announces the awards. MLF high-level rep. presents them

STUDENT SPOTLIGHT COMPETITION

12:27 **Dr Kevan Main** (WAS) introduces three short student presentations and awards.

CLOSURE

12:35 **Dr Khalid Salie** President, WAS African Chapter, Closing remark

12:38 **Mr Austin Makani**, Announcements and closure

12:40 **Group photo in front of Selous Hall, courtesy of the Ministry of Livestock and Fisheries**.

12:50 **EXHIBITION TOUR & LUNCH**

NUTRITION AND PHYSIOLOGY

Wednesday, December 02 16:30 - 17:50 Meni
Chair: Menaga Menakshisundaram

CHECK THE APP FOR SPEAKER TIMES

Abdullahi Muhammad Orire
BODY COMPOSITION AND NUTRIENT UTILIZATION OF *Clarias gariepinus* FINGERLINGS FED COOKED *Albizia lebbeck* SEED MEAL

Esther Wairimu Magondu, Serge Dossou, Douglas Okemwa, David Mirera, Rodrigue Yossa
INTERACTIVE EFFECTS OF SALINITY AND DIETARY ENERGY ON GROWTH ERFORMANCE, HISTOMORPHOLOGY AND NUTRIENT TRANSPORTER EXPRESSION IN JUVENILE NILE TILAPIA *Oreochromis niloticus*

Prince Ofori-Darkwah, Bismark Abokyi, Jesse Quarshie, Evans Kwadzo Danso, Daniel Adjei-Boateng
DIFFERENT ORGANIC WASTES INFLUENCE THE SURVIVAL, GROWTH, NUTRITIONAL QUALITY, AND REPRODUCTIVE PERFORMANCE OF BLACK SOLDIER FLY *Hermetia illucens*

Francis Mmanda, Nickson Kimaro
TURNING LOCAL FEED INGREDIENTS INTO BETTER FISH FEED: A PROMISING APPROACH FOR SUSTAINABLE TILAPIA FARMING IN TANZANIA

AQUAFEED INGREDIENTS

Wednesday, December 02 09:00 - 10:40 Meni
Chairs: Anton Immink, Daniel Adjei-Boateng

CHECK THE APP FOR SPEAKER TIMES

Olarinke V. Adeniyi, Zulikifil O. Tajudeen, Bisola O. Adereti, Abdulmujeeb R. Yusuf
INFLUENCE OF DIETARY *Ocimum gratissimum* AND *Mentha piperita* LEAVES BLENDS ON GROWTH PERFORMANCE, BIOCHEMICAL AND ANTIOXIDATIVE STATUS OF *Clarias gariepinus*

Emmanuel Oluwamuyiwa Oje, Wilson Lazaro Jere, Jeremiah Kang'ombe, Seyi Ebun Adeboye
GROWTH PERFORMANCE, DIGESTIBILIY AND HAEMATOLOGICAL RESPONSES OF *Clarias gariepinus* FINGERLINGS FED BAOBAB AND TAMARIND PULP POWDERS AS SUSTAINABLE ALTERNATIVE TO SYNTHETIC VITAMIN-MINERAL PREMIX

Esther Nyirenda, Daud Kassam, Jeremiah Kang'ombe, Bernd Ueberschar
PRODUCTION AND UTILIZATION OF BLACK SOLDIER FLY *Hermetia illucens* LARVAE AS A COMPONENT OF HIGH-QUALITY FISH FEED IN MALAWI

Murat Arslan, Waheedullah Mohmand, Seyda Tacer-Tanas, Fatih Korkmaz, Chaimae Said SINGLE AND JOINT EFFECTS OF DIETARY PATERSON'S CURSE SEED AND LINSEED OIL IN RAINBOW TROUT

Suresh K, Dhanunjaya Goud
DIETARY SUPPLEMENTATION OF DV- GUTWIN AQ ENHANCES GROWTH PERFORMANCE, DIGESTIVE FUNCTION, HAEMATOLOGY, ANTIOXIDANT STATUS, IMMUNE RESPONSE AND DISEASE RESISTANCE IN NILE TILAPIA *Oreochromis niloticus*

MICROALGAE / LIVE FEEDS

Wednesday, December 02 09:00 - 10:40 Bagamoyo
Chairs: Jullius Manyala, John Walakira, Niall Vine

CHECK THE APP FOR SPEAKER TIMES

Ramatu Abdulkadir Musa RESPONSE SURFACE METHODOLOGY FOR OPTIMIZING NUTRIENT COMPOSITION IN *Chlorella* sp. CULTURE

Leslie Sampollo, Andrew Jeffs
ALTERNATIVE MICROALGAE FEED FOR MUSSEL SPAT NURSERY CULTURE

Pedro Pousão-Ferreira, Ana Candeias-Mendes, Iris Silva, Freitas Inês, Morgana Angelo, Marisa Barata, Sara Castanho, Barbara Requeijo, Mafalda Rocha, André Soares, João Gonçalves, Michael Viegas, Cátia Lourenço Marques, Rui Sousa, Silvia Gregório, Florbela Soares, Renata Gonçalves
RESEARCH INFRASTRUCTURE AND ANALYTICAL METHODOLOGIES SUPPORTING THE VALIDATION OF INNOVATIVE MICROALGAE-DERIVED AQUAFEEDS FOR MARINE SPECIES

PROCESSING AND VALUE ADDING

Wednesday, December 02 09:00 - 10:40 Mafia
Chairs: Shelika Funmiola, Tabu Mungia

CHECK THE APP FOR SPEAKER TIMES

Busenur Özkan, Maria João Fraqueza, Patrícia Bernardo, Penpat Kitcharoen, Maria José Fernandes, Maria Helena Fernandes, Maria Pedro Teixeira, Carla Pires, Leonor Nunes, António Marques
VALORISING FISH-PROCESSING CO-PRODUCTS THROUGH ENZYMATIC HYDROLYSIS: DEVELOPMENT OF AMBIENT-STABLE HIGH-PROTEIN CEREAL BARS

Joseph Luomba, Deogratious Mulokozi, Atu Malambugi, Salome Shayo, John Joel
FROM NUTRITIONAL INNOVATION TO MARKET ADOPTION: CONSUMER ACCEPTANCE, PURCHASE INTENTION AND WILLINGNESS TO PAY FOR SPIRULINA-ENRICHED FOODS IN TANZANIA

Seyit Yuzuak, Serkan Ciftci, Gul Karaduman, Nazlin K. Howell, Redife Aslihan Uçar, António Marques, Qing Ma, Gui Li, Deyu Xie DATA-GUIDED COMPARISON OF PHYCOCYANIN EXTRACTION METHODS FROM *Spirulina* sp. BIOMASS

AQUACULTURE AND THE ENVIRONMENT

Wednesday, December 02 09:00 - 10:40 Mafia
Chair: Charles Ngugi

CHECK THE APP FOR SPEAKER TIMES

Johakimu Jefta, Avit Mmochi, Mette Muller
ALPHA-CYPERMETHRIN RESIDUES IN COW MANURE FOR POND FERTILIZATION AND EFFECTS ON WATER QUALITY, SURVIVAL, AND GROWTH PERFORMANCE OF FARMED NILE TILAPIA *Oreochromis niloticus*

Lucy Bowser, Amber Himes-Cornell, Chiara Buonfrate, Indra Behar
THE ROLE OF AQUACULTURE IN IMPLEMENTING THE KUNMING-MONTREAL GLOBAL BIODIVERSITY FRAMEWORK

George D. Mantas, Athanasios Chantzaropoulos, Simona Paolacci, Jan Hoinkis, Marco Setti
INNOVATIONS IN INTEGRATED AQUA-AGRICULTURE PRACTICES IN EAST AFRICA. RESULTS AND LESSONS FROM THREE EU FUNDED HORIZON PROJECTS

Lucy Bowser, Amber Himes-Cornell, Samia Sarkis, Micaela Soldi, Eugene Dessouassi, Giulio Brizi, Thomas Shipton
AQUACULTURE PROGRAMMATIC STRATEGY UNDER THE EIGHTH GLOBAL ENVIRONMENTAL FACILITY REPLENISHMENT CYCLE FOR THE FOOD SYSTEMS INTEGRATED PROGRAM

CONTRIBUTED SESSION

Wednesday, December 02 09:00 - 10:40 Amboni
Chair: TBA

CHECK THE APP FOR SPEAKER TIMES

Gianluigi Negroni
NAVIGATING GEOPOLITICAL INSTABILITY: STRENGTHENING SUPPLY CHAIN RESILIENCE AND LEVERAGING LOCAL INGREDIENT IN THE GLOBAL AQUAFEED INDUSTRY

AQUATIC BLUE FOODS INNOVATIONS

Wednesday, December 02 09:00 - 10:40 Udzugwa
Chairs: Bernice McLean, Jacob Adzikah

CHECK THE APP FOR SPEAKER TIMES

Jacob Adzikah, Lawrencia Kwansah
THE BLUE FOOD INNOVATION HUB: AN INTEGRATED APPROACH TO STRENGTHENING AQUACULTURE ENTREPRENEURSHIP, INNOVATION AND INVESTMENT IN GHANA

Amanda Yucca Chulayo, Mandisa Nduna
SEAWEED-BASED FEED ADDICTIVES FOR CLIMATE-SMART LIVESTOCK PRODUCTION IN SOUTH AFRICA: CURRENT EVIDENCE, OPPORTUNITIES AND RESEARCH GAPS

Alexandra Pounds, Sai Tang, Tim Messeder
RADiCool GEDSI ASSESSMENT: ADOPTION OF PORTABLE FISH COOLING TECHNOLOGY IN UGANDA

Margarida Correia
FROM DIAGNOSTICS TO INVESTMENT PIPELINES: SCALING AQUACULTURE AND BLUE FOOD VALUE CHAINS IN THE SADC REGION AND THE LAKE TANGANYIKA BASIN

Razevason Mahatsangy, Julien Sadousty, Philippe Martel, Olivier M Joffre
A SUBSIDY-FREE APPROACH TO SUSTAINABLE SMALL-SCALE AQUACULTURE: LESSONS FROM MADAGASCAR

WOMEN IN AQUACULTURE

Wednesday, December 02 09:00 - 10:40 Katavi
Chair: Funmilola Shelika

CHECK THE APP FOR SPEAKER TIMES

Lilian Ibengwe
FROM LANDING SITE TO FAMILY PLATE AND SCHOOL MEALS. WOMEN AS THE MISSING LINK FOR AQUATIC FOODS IN TANZANIA AND UGANDA

SMALL FARMER DEVELOPMENT

Wednesday, December 02 09:00 - 10:40 Sadaani
Chair: Dada Mofuluso

CHECK THE APP FOR SPEAKER TIMES

Sokonia Kaitano, Paul Mwera
SUSTAINABLE GROWTH OF AQUACULTURE SYSTEMS THROUGH RURAL SMALL-SCALE FISH FARMERS: A CLUSTER-BASED OUTGROWER MODEL FOR INCLUSIVE TRANSFORMATION

Mofoluso Dada, Mayowa Azzan, Kenechukwu Anoliefo, Philip Popoola, Rahmon Lasisi
FARMER SUPPORT TO CO-MANAGEMENT: A SYSTEMS APPROACH TO BUILDING PROFITABLE AFRICAN SMALLHOLDER AQUACULTURE

Philipp Alexander Jundt, Ramesh Arunachlam
SCALING UP SMALLHOLDER CREDIT: SATELLITE-BASED BIOMASS ESTIMATION AND A NEXT-GENERATION "CAUSAL EDGE AI ENGINE"

UNLOCKING TANZANIA'S AQUACULTURE POTENTIAL: PARTNERSHIPS AND INVESTMENT FOR BLUE TRANSFORMATION

Wednesday, December 02 14:20 - 16:00 Selous
Chair: Nazael Madalla

CHECK THE APP FOR SPEAKER TIMES

AQUACULTURE NUTRITION: ADVANCING HEALTH, PERFORMANCE AND SUSTAINABILITY

Wednesday, December 02 14:20 - 16:00 Meni
Chair: Mahmoud Haidar

CHECK THE APP FOR SPEAKER TIMES

Herve Lucien-Brun, Romi Novriadi, Didi Widjja, Binh Nguyen Noc
A MULTI-COMPONENT PROTEASE IMPROVES GROWTH PERFORMANCE AND WHOLE-BODY COMPOSITION ON NILE TILAPIA *Oreochromis niloticus* REARED UNDER COMMERCIAL CAGE-CULTURE CONDITIONS

Hauwa Sadiq, Kwaghga Tsukwa, Abdullahi Orire, Reuben Kolo
GROWTH RESPONSE, PROXIMATE COMPOSITION, DIGESTIBILITY, AND SURVIVAL OF *Clarias gariepinus* FINGERLINGS FED DIETS CONTAINING BIOFLOC RESIDUE

Martha E. Israel, Renalda N. Munubi, Sebastian W. Chenyambuga
EFFECTS OF REPLACING SOYBEAN MEAL WITH COWPEA MEAL ON WATER QUALITY PARAMETERSAND GROWTH PERFORMANCE OF NILE TILAPIA *Oreochromis niloticus* CULTURED IN CONCRETE TANKS

Olusola Babalola, Ayofe Hammed, Albert Amosu, Opeyemi Oke
FISH VISCERAL OFFAL MEAL AS A SUSTAINABLE ALTERNATIVE TO FISH MEAL IN THE CULTURE OF *Clarias gariepinus* IN CIRCULAR CONCRETE TANK

Antony Wildon
THE USE OF GLYCEROL ESTERS OF BUTYRIC ACID IN DIETS FED TO *Oreochromis* SPECIES AND THEIR EFFECTS ON PRODUCTION PARAMETERS AND GUT MORPHOLOGY

COUNTRY AND REGIONAL REPORTS

Wednesday, December 02 14:20 - 16:00 Sadaani
Chair: Bernice McLean

CHECK THE APP FOR SPEAKER TIMES

Revival Atosha Herman
YOUTH IN TANZANIA'S AQUACULTURE VALUE CHAIN: WHERE THEY WORK, WHAT THEY LACK AND WHY THEIR ENTERPRISES STRUGGLE

Elysee Nzohabonayo, Jose Parajua, Etienne Hinrichsen, Papius Tibihika
SUSTAINABLE AQUACULTURE IN THE LAKE VICTORIA BASIN: RESULTS AND LESSONS FROM THE EU-EAC TRUEFISH PROJECT, 2020-2025

George Owiti Osure
ADVANCING SUSTAINABLE MARICULTURE DEVELOPMENT IN KENYA: PRIORITIES FOR RESEARCH, INVESTMENT AND BLUE ECONOMY TRANSFORMATION

Milton Tinashe Makumbe, Lorraine Kudakwashe Salimu, Irene Chihanga, Chenjemulene Madzivanyika, Robert Kamutambuko, Tinotenda Mangarai, Givious Sisito
TRANSITIONING INLAND AQUATIC FOOD SYSTEMS UNDER THE AFRICA BLUE ECONOMY STRATEGY: A NATIONAL APPRAISAL OF PRODUCTION DYNAMICS, FISH GENETICS SECURITY, AND GOVERNANCE REFORMS IN ZIMBABWE

Ana Menezes, Manuel Barange
GETTING GOVERNANCE RIGHT: FROM PRIVATE SECTOR GROWTH TO DIVERSIFIED AQUACULTURE IN LESOTHO

DIGITAL TOOLS AND AI

Wednesday, December 02 14:20 - 16:00 Mafia
Chair: Wolfgang Schade

CHECK THE APP FOR SPEAKER TIMES

Aliyu Adamu Isa
INTEGRATING INTERNET INFRASTRUCTURE WITH SUSTAINABLE MARITIME LIVELIHOODS IN THE SOKOTO-RIMA BASIN

Khalfan Al-Rashdi, Ali Al-Mabsali, Sanaz Keshvari Keshvari, Said Al-Abri, Rami Al-Hmouz, Hadj Bourdoucen
AUTOMATED FISH DETECTION FOR PRECISE AQUACULTURE MONITORING

Christian Abouzeid
REAL-TIME WATER QUALITY MONITORING FOR AQUACULTURE: REDUCING RISK THROUGH SMARTER DATA

Wolfgang Schade, Yifan Wang, Aiyana Agacyontar, Sophia Gladis
AQUA TWIN: MULTIMODAL SENSING AND AI-BASED FEEDING PREDICTION FOR TILAPIA CAGE FARMING IN LAKE VICTORIA

Joao G. Ferreira
AQRATE – A MODEL FOR DETERMINING AQUACULTURE CARRYING CAPACITY IN FRESHWATER LAKES AND COASTAL SYSTEMS

AQUAINVEST PLATFORM FORUM

Wednesday, December 02 14:20 - 16:00 Bagamoyo
Chairs: Ruth Garcia, Bernice McLean

CHECK THE APP FOR SPEAKER TIMES

Roy Van Daatselaar, Flavio Corsin, Lucas Santos
A PUBLIC-PRIVATE APPROACH TO ACCELERATE INVESTMENT AND GUIDE SUSTAINABLE AQUACULTURE DEVELOPMENT

Ruth Garcia Gomez, Harrison Charo-Karisa, Vivek Prasad
WBG AQUAINVEST PLATFORM OVERVIEW

Ruth Garcia Gomez
INTERNATIONAL FINANCE CORPORATION OVERVIEW: INVESTING IN AQUACULTURE

Ruth Garcia Gomez
WBG AQUAINVEST PLATFORM CASE STUDIES ON SPATIAL PLANNING

Ruth Garcia Gomez
CASE STUDY: FACILITATING FINANCE ACCESS TO AQUACULTURE SMES IN TANZANIA

Amber Himes-Cornell, Lucy Bowser
TRANSLATING THE GUIDELINES FOR SUSTAINABLE AQUACULTURE INTO ACTION

WISHH FARMER TRAINING #1

Wednesday, December 02 14:20 - 16:00 Katavi

CHECK THE APP FOR SPEAKER TIMES

Karen Veverica
THE WISHH FISH FARMERS SESSIONS

CONTRIBUTED SESSION 1

Wednesday, December 02 14:20 - 16:00 Amboni
Chair: Henk Stander

CHECK THE APP FOR SPEAKER TIMES

Margarida Saavedra
FROM STRESS TO SUCCESS: IMPROVING FISH WELFARE FOR SUSTAINABLE AQUACULTURE

Henk Stander, Heindre K. Rademan
FROM FISH BREEDING TO INTEGRATED, DATA-DRIVEN AQUAPONICS: A SMART FARMER FOUNDATION SUPPORT CASE STUDY USING ULTRA-OXYGEN OXYGENATION

Jude A. Onemolease
ULTRASTRUCTURE LITERACY AND MULTI-CAPITAL STOCK LOGIC FOR REGENERATIVE AQUACULTURE IN AFRICA: A FRAMEWORK FOR BLUE TRANSFORMATION

Faith Cherotich, Severin Spring
SUSTAIN AQUASMART FOR RECORD-BASED FEED AND PRODUCTION DECISIONS IN NATIVE SPECIES AQUACULTURE ON LAKE TANGANYIKA

Luísa Jaquelina, Salomão O. Bandeira, Rui P. Santos, Valera Dias
PERFORMANCE OF EUCHEUMOIDS GROWN IN SUBSTRATE WITH SEAGRASS AND IN SUBSTRATE WITHOUT SEAGRASS, ON INHACA ISLAND

CLIMATE CHANGE AND SUSTAINABLE AQUACULTURE IN THE BLUE ECONOMY

Wednesday, December 02 14:20 - 17:50 Mikuma
Chairs: Leila Basti, Ladislaus Chang'a

CHECK THE APP FOR SPEAKER TIMES

Sherif Sadek
THE FARM OF THE FUTURE: INNOVATION, TECHNOLOGY AND NEW PRODUCTION SYSTEMS.

Gauthier D.P. Konnert, Changyou Song, Fotini Kokou, Kazi A. Kabir, Li Hongxia, Marc C.J. Verdegem
FORMULATING FEEDS TO ACHIEVE GREATER CIRCULARITY IN POND FARMING: CHINESE EXPERIENCES IN WORKING WITH NATURE

Mohamed Fathi Eliwa, Ahmed Nasr-Allah, Ashraf Sbaay
SCALING RENEWABLE ENERGY SOLUTIONS IN THE AQUACULTURE SECTOR: DRIVERS, BARRIERS, AND EARLY IMPACTS: EGYPT CASE STUDY

Imikendu Imbwae, Sahya Maulu, Oliver Hasimuna, Moses Chibesa, Ian Bbole, Joseph Mphande, Mazuba Mwanachingwala, Kundananji Nawanzi, Doubt Chibeya, Sillah Siavwapa, Joyce Mbewe, Lucy Namukonda, Friday Balungu, Inyambo Mumbula, Mwangala Kabika, Shimbetu Mweemba, Mwaanda Sikanyenyene, Enock Siankwilimba, Hanse M. Mweetwa
PERCEIVED EFFECTS OF CLIMATE CHANGE ON AQUACULTURE PRODUCTION IN ZAMBIA: STATUS, VULNERABILITY FACTORS AND ADAPTATION STRATEGIES

Oghenevwairhe Emefe, Andress Edowaye Odiko, Funmilayo Bosede Oyekanmi
AI-ENABLED EARLY WARNING FOR AQUACULTURE: PREDICTING WATER-QUALITY AND FISH-MORTALITY RISKS IN TROPICAL FISH FARMS

Jeherul Islam, Pratap Sinha
DEVELOPING CERTIFIED AQUACULTURE TRAINERS FOR CLIMATE-RESILIENT AND RESOURCE-EFFICIENT FARMING

Jerimoth Ekelemu, Ochuko Eriegha
GROWING FISH FOR A WARMER WORLD: REDESIGNING AQUACULTURE SYSTEMS FOR A CHALLENGED PLANET

Lawrence Olusola Oparinde, Taiwo Timothy Amos
CLIMATE INFORMATION USE, CLIMATE CHANGE ADAPTATION MEASURES AND WELFARE: AN EMPIRICAL EVIDENCE FROM WOMEN AQUACULTURE FISH FARMERS IN SOUTHWEST, NIGERIA

Francis Phiri, Madalitso Msyalie, Nicole Wegner-Fezakov, Amakhosi Jere, Gladson Chikolera, Tendai Reuben, Thomas Ngwira, Christopher Lipande
ADAPTING TO A CHANGING CLIMATE: LESSONS FROM MALAWI'S AQUACULTURE

CONTRIBUTED SESSION 2

Wednesday, December 02 16:30 - 17:50 Amboni
Chair: Jessy Lugya

CHECK THE APP FOR SPEAKER TIMES

Olusegun Akerele
REQUIRE PITCHING A NEW GREENFIELD MARKET ENTRY OR BILATERAL EXPORT/ TECHNOLOGY PARTNERSHIP UNDER GROTEC AQUACULTURE GENERAL AFRICAN DEVELOPMENT FRAMEWORK

Henk B. Stander
AQUAPONICS INTEGRATED SCHOOL EDUCATION AND TRAINING PROGRAMME

Mohammad Abdul Baten Bhuyain
ENHANCING AQUACULTURE PRODUCTIVITY AND PROFITABILITY THROUGH MULTI-SPECIES INTEGRATION: EVIDENCE FROM POND-BASED IMTA MODELS IN COASTAL BANGLADESH

Joshua Aboah, Esther Magondu, Victor Okomoda, James Fasakin, Mavindu Muthoka, Douglas Okemwa, Markose Zewdie
END-USER APPRAISAL OF INTEGRATED MULTI-TROPHIC AQUACULTURE INVESTMENT DECISION SUPPORT TOOL

Thomas Goreau, Michael Sangiwa, January Ndagala
SUSTAINABLE ELECTRO MARICULTURE IN CLIMATE CHANGE ADAPTATION AND COASTAL ZONE MANAGEMENT

AQUATIC ANIMAL HEALTH

Wednesday, December 02 14:20 - 17:50 Udzugwa
Chair: Nelly Isyagi

CHECK THE APP FOR SPEAKER TIMES

Deborah Adah, Nelly Isiagi, Laura Urdes, Bartolomeo Gorgoglione, Matthijs Metselaar, Wes Baumgartner, David Scarfe, Dusan Palic, Devon Dublin, Farah Gonul Aydin, Francisca Samsing, Ulisses Pereira, Stephen Reichley, Stephen Pyecrof, Win Surachetpong, Julius Tepper, Chris Walster, Nick Saint-Erne
A ONE HEALTH APPROACH TO ANTIMICROBIAL RESISTANCE MITIGATION IN AQUACULTURE: INTEGRATING ANIMAL HEALTH, WELFARE, BIOSECURITY AND ECOSYSTEM HEALTH

Seyramsarah Setufe, Ramat Seidu, Jacob Bilikoni, Gilbert Baah
EVALUATION OF FARMERS' PERSPECTIVES ON THE USE OF ANTIBIOTICS IN FISH FARM OPERATIONS AND ITS PUBLIC HEALTH IMPLICATIONS IN SUNYANI MUNICIPALITY

Zainabu Kilusungu, Zuhura Kimera, Wilson Nandolo, Peter Kunambi, Fauster Mgaya, Mecky Matee, Daud Kassam
FROM EVIDENCE TO ACTION: INTEGRATING AMR EVIDENCE INTO THE AFIWEL PROGRAM FOR SUSTAINABLE AQUACULTURE IN TANZANIA

Sabrina Hossain, Shafiq Rheman, Laura Khor Li Imm, Jérôme Delamare-Debouteville, Abdullah Al Mahmud, David Verner-Jeffryes
WORLDFISH'S APPROACHES TO TACKLING ANTIMICROBIAL RESISTANCE IN AQUACULTURE: LESSONS FROM BANGLADESH FOR THE GLOBAL SOUTH

Lorraine Kudakwashe Salimu, Robert Kamutambuko, Tinotenda Mangarai, Milton Tinashe Makumbe
SILENT ENVIRONMENTAL RESERVOIRS: HIGH PREVALENCE OF RESISTANCE TO WHO CRITICALLY IMPORTANT ANTIMICROBIALS IN AQUACULTURE ENVIRONMENTS DESPITE ZERO REPORTED FARM-LEVEL USAGE IN ZIMBABWE

Inácio Mateus Assane, Rubens R. de Oliveira Neto, Daniel de A. R. Ferreira, André do V. Oliveira, Diogo T. Hashimoto, Fabiana Pilarski
GENETIC DIVERSITY, VIRULENCE GENES, ANTIMICROBIAL RESISTANCE GENES, AND ANTIMICROBIAL SUSCEPTIBILITY OF *Streptococcus* ASSOCIATED WITH MASS MORTALITIES OF CULTURED NILE TILAPIA IN BRAZIL

Jonathan Armel Mbondo, Fernand Moutombi Boukong, Colette Tarla Wirnyuy, Noé Nadji Nome, Adrien Mariel Essoh Etouke
ÉVALUATION DE LA CONTAMINATION MICROBIENNE ET SON IMPACT POTENTIEL SUR LA SANTÉ PUBLIQUE DE CERTAINS POISSONS CONSOMMÉS ET COMMERCIALISÉS LOCALEMENT À YAOUNDÉ (CAMEROUN)

Ruth Wacira, Teresia Wacira, Fredrick Mjomba, Christopher Aura
NUTRIENT POLLUTION, PATHOGEN DIVERSITY AND ANTIMICROBIAL RESISTANCE IN *BARBS* OF THE NYANDO GULF, LAKE VICTORIA

David Verner-Jeffreys, Netsayi Mudege, Samuel Addo, Mwansa Songe, Kondowe Jonah, Keagan Kakwasha, Khofi Anyan, Kunda Ndashe, Laura Khor, Sabrina Hossain, Abdullah Al Mahmud, Jérôme Delamare-Debouteville, Bernard Bernard Bett
CLIMATE CHANGE AS A RISK MULTIPLIER FOR AQUATIC ANIMAL HEALTH IN LAKE KARIBA AND LAKE VOLTA

FROM PAPER TO PONDS: CLOSING AFRICA'S AQUACULTURE ADOPTION GAP

Wednesday, December 02 16:30 - 17:50 Sadaani

Chair: Rodrigue Yossa

CHECK THE APP FOR SPEAKER TIMES

DIGITAL AND DISRUPTIVE TOOLS IN AQUACULTURE

Wednesday, December 02 16:30 - 17:50 Bagamoyo

Chair: Harrison Charo

CHECK THE APP FOR SPEAKER TIMES

Ruth Garcia Gomez
WBG AQUAINVEST PLATFORM CASE STUDIES ON SPATIAL PLANNING

Ruth Garcia Gomez
WBG CAMBODIA CASE STUDY ON APPLICATION OF DIGITAL TOOLS IN AQUACULTURE

Qurban Rouhani
BUNA AFRICA: DIGITIZING AQUACULTURE IN AFRICA – LESSONS LEARNT

Antonio Garza de Yta
AQUACULTURE 4.0: UNLOCKING THE LAST MILE OF GROWTH

YOUTH IN AQUACULTURE (MLF)

Wednesday, December 02 16:30 - 17:50 Selous

Chair: Foluke Areola

CHECK THE APP FOR SPEAKER TIMES

AQUACULTURE AND THE ENVIRONMENT CONTINUED

Wednesday, December 02 16:30 - 17:50 Mikuma
Chair: Amber Himes-Cornell

CHECK THE APP FOR SPEAKER TIMES

Eduardo De Francesco, Ruggero De Francesco
INTEGRATED MONITORING AND EARLY WARNING FOR SUSTAINABLE AQUACULTURE: COMBINING SATELLITE DATA AND *IN SITU* OBSERVATIONS THROUGH MAR

Rui Gomes Ferreira, Joao G. Ferreira, Diogo Gomes, Reed Ozretich, Alexander V. Oostenrijk, Antonio Q. Fernandes, Chris Ninnes, Jill Swasey, Alison Hutchins
AQUASCAPE – USING ENVIRONMENTAL INTELLIGENCE TO MAP THE WORLD'S AQUACULTURE

Faridah Bukirwa, Onesmo Zakaria Sigalla, Lyne Falconer, Trevor Telfer
SPATIAL PRIORITIZATION OF ECOSYSTEM SERVICES FOR SUSTAINABLE MANAGEMENT OF LAKE VICTORIA, UGANDA

Jessy Lugya, Rakel Guðmundsdóttir, Amanda Vang, Mark Olokotum
TEMPORAL WATER QUALITY AND PHYTOPLANKTON DYNAMICS: A BASIS FOR ENVIRONMENTAL MONITORING OF CAGE AQUACULTURE IN NAPOLEON GULF, LAKE VICTORIA, UGANDA

THURSDAY, October 29

PLEASE NOTE: PRESENTATION TIMES

WA2026 Tanzania presentations for each session are listed in the order of presentation when the Programme Book goes to press. The presentation times have been omitted because there are many late changes after the Programme Book is printed. The **WA2026 Tanzania Conference APP** will show the presentation times and will be updated during the conference as changes are received. Late cancellations will be marked "Cancelled" in the APP. The **WA2026 Tanzania APP** will have the most current version of the Programme and will better assist attendees in planning their schedules.

Thursday Break 10:20 - 11:00
Thursday Lunch 12:40 - 14:00

TILAPIA AND CATFISH

Thursday, December 03 09:00 - 10:20 Mikuma
Chairs: Abdel-Fattah El-Sayed, Simon Rukera-Tabaru

Ahmed Nasr-Allah, Mohamed Eliwa, Ashraf Sbaay, Mahmoud Rashad, Ashraf Khairy, Haytham Abd El-Ghaffar
PERFORMANCE OF TILAPIA CULTURED IN DIFFERENT CELL SIZE OF THE IN-POND RACEWAY SYSTEM (IPRS) IN EGYPT

Negese Kebtieneh Demlie, Akewake Geremew, Alayu Yalew, Belay Abdissa, Gashaw Tilahun
OPTIMIZING NILE TILAPIA STOCKING DENSITY FOR ENHANCED WATER USE EFFICIENCY AND PROFITABILITY IN FISH-CABBAGE INTEGRATED FARMING SYSTEMS IN NORTHWEST ETHIOPIA

Jacob Mpiima, Robinson Odong, Ronald Semyalo, Peter Akoll, Godfrey Kubiriza, Noeline Ndagire, Agnes Nandutu, Johnson Mayiga, Mary Namwanje, Luke Odur, Rebecca Dushimimana
PROFITABILITY OF FED AND NON-FED NILE TILAPIA CAGE FISH FARMS IN LAKE VICTORIA, UGANDA

REPRODUCTION AND SEED

Thursday, December 03 09:00 - 10:20 Amboni
Chair: Sherif Sadek

CHECK THE APP FOR SPEAKER TIMES

Alemken Mengist, Minwyelet Mingist, Abebe Getahun, Degsera Aemro
REPRODUCTIVE BIOLOGY OF NILE TILAPIA *Oreochromis niloticus* AND IMPLICATIONS FOR FISHERIES MANAGEMENT IN LAKE HAYQ, ETHIOPIA

Molly Kamugira, Gladys Bwanika, Bruno Nkwasibwe, Richard Ddungu
GROWTH AND SURVIVAL OF AFRICAN CATFISH *Clarias gariepinus* BROODSTOCK SOURCED FROM LAKES VICTORIA AND ALBERT

Rebecca Lochmann, Fortune Akpene Agbesi, Prince Ofori-Darkwah, Regina E. Edziyie
EFFECTS OF DIETARY LIPID SOURCES AND CONCENTRATIONS ON EGG PRODUCTION AND FRY QUALITY OF AFRICAN CATFISH *Clarias gariepinus* BROODSTOCK

Margaret Aanyu, Denis Opio
PRODUCTIVITY OF MOINA MICRURA GROWN ON SELECTED CULTURE MEDIA AND ITS APPLICATION FOR WEANING AFRICAN CATFISH *Clarias gariepinus* LARVAE

FOOD SAFETY: AQUACULTURE STANDARDS, CERTIFICATION

Thursday, December 03 09:00 - 10:20 Bagamoyo
Chair: Alexander Kefi

CHECK THE APP FOR SPEAKER TIMES

Ismail Badmus, Selim Alarape, Olanike Adeyemo
ASSESSMENT OF GLUFOSINATE RESIDUE CONCENTRATIONS IN CULTURED AFRICAN CATFISH *Clarias gariepinus* OFFERED FOR SALE IN SELECTED FISH MARKETS IN IBADAN, OYO STATE, NIGERIA

Evalyn Mwihia, Tobias Owiti, Eric Eshitera
HEAVY METALS IN FISH AND WATER FROM LAKE NAKURU AND LAKE NAIVASHA, KENYA: FOOD SAFETY AND PUBLIC HEALTH IMPLICATIONS

Isaack Shadrack Maganga, Eliezer Mwakalapa, Jan Lyche, Adili Mbembela, Kaampwe Muzandu
OCCURRENCE AND LEVELS OF LEAD AND CADMIUM IN FISH FROM LAKE RUKWA, TANZANIA: POTENTIAL FISH HEALTH IMPLICATIONS AND PUBLIC HEALTH RISKS

Evalyn Mwihia, Irene Kamanja, Eric Eshitera, Bartolomeo Gorgoglione NATURALLY OCCURRING MYCOTOXINS IN COMMERCIAL FISH FEEDS: A GLOBAL EVIDENCE MAP (2000–2026)

AQUATIC ANIMAL HEALTH – CONTINUED

Thursday, December 03 09:00 - 10:20 Udzugwa
Chair: Nelly Isyagi

CHECK THE APP FOR SPEAKER TIMES

Ramadhan Mtabika, Robinson Mdegela, Oystein Evensen, Aviti Mmochi OCCURRENCE OF FUNGAL INFECTIONS IN RUFIJI TILAPIA AND HYBRIDS OF FEMALE NILE TILAPIA AND MALE RUFIJI TILAPIA AT DIFFERENT SALINITIES

Jonathan Mbondo, Dieu ne dort Bahanak, Etienne Didier Bassock Bayiha, Charles Félix Bilong Bilong INSIGHTS INTO THE PHYLOGENETIC POSITION OF GENUS *Synodontella* (MONOPISTHOCOTYLEA) AMONG SOME OTHER DACTYLOGYRIDEA GILL PARASITES OF AFRICAN CATFISHES AND THE IMPORTANCE OF HAPTORAL ELEMENTS

Simon Chioma Weli, Sun Baojian, Mona Gjessing, Ole Bendik Dale DEVELOPMENT OF LOOP-MEDIATED ISOTHERMAL AMPLIFICATION COMBINED WITH LATERAL FLOW DIPSTICK ASSAYS FOR RAPID DETECTION OF SALMON GILL POXVIRUS AND INFECTIOUS SALMON ANEMIA VIRUS WITHOUT NUCLEIC ACID PURIFICATION

Célio Machaieie, Amr A.A. Gamil, Elisabeth Gislefoss, Amélia Mondlane-Milisse, Jussa Falique, Denise R.A. Brito, Fernando Mulandane, António Hoguane, Valera Dias, José Fafetine, Øystein Evensen, Stephen Mutoloki A COST-EFFECTIVE ONE-STEP PCR ASSAY USED TO DETERMINE THE OCCURRENCE OF WHITE SPOT SYNDROME VIRUS (WSSV) IN WILD SHRIMP ALONG THE MOZAMBICAN COAST

FAO SPECIAL SESSION
AQUACULTURE AT A TURNING POINT: GOVERNING SUSTAINABLE GROWTH TO SECURE THE FUTURE

Thursday, December 03 09:00 - 12:40 Selous
Chair: Ana Menenzes
Format and Strategic Detail Lead

09:00 Opening remarks

Dr Nazael Madalla - **Director of Aquaculture** at the Ministry of Livestock and Fisheries (United Republic of Tanzania FAO/ Session Chair

09:10 Biosecurity Panel *Can Africa Grow Aquaculture Without Growing Disease Risk?*
Panelist 1: Safe movement of aquatic animals and disease risk management
Panelist 2: Farm-level biosecurity and disease prevention
Panelist 3: Surveillance, early warning and preparedness. Panel exchange and audience Q&A - moderator synthesis - FAO

09:55 **Spatial Planning for aquaculture development** I
Introduction to FAO's Aquaculture Siting Guide
In-depth discussion on contents and usability of the Guide
Summary discussion and next steps - FAO Team + Partners

Urban and Peri-Urban Aquaculture Presentation of key findings of the Global Assessment), to frame the consultation. - Rhodes University/ Dr Cliff Jones

11:00 **SPECIAL CONSULTATION FORUM** on Urban Aquaculture Governance Frameworks
Aquaculture Is Coming to Town: Are Our Cities Ready? Structured stakeholder roundtable consultation on urban and peri-urban aquaculture and proposed Urban Aquaculture Governance frameworks/guidelines.

Suggested flow: framing and objectives and questions (10 min); facilitated roundtables on governance, policy, investment, biosecurity, land and water use, and city readiness (30 min); plenary reporting and prioritization (20 min); agreement on key messages and next steps (10 min). – FAO Dr Ana Menezes

12:30 **Closing Reflections** Summary of key messages and priority actions for stronger coordination and sustainable aquaculture development in Africa.

BRIDGING THE RAW MATERIAL GAP: SCALING SUSTAINABLE AQUAFEEDS IN AFRICA

Thursday, December 03 09:00 - 12:40 Meni
Chair: Matthew Owen
Sponsor: FASA

CHECK THE APP FOR SPEAKER TIMES

Matthew A.G. Owen
DEVELOPMENT AND SCALING OF SUSTAINABLE FEEDS FOR RESILIENT AQUATIC FOOD SYSTEMS IN SUB-SAHARAN AFRICA (FASA): PROJECT INTRODUCTION AND SESSION OVERVIEW

Chrysantus M. Tanga, Paul Nyangau, Zewdu Abro, Menale Kassie, Subramanian Sevgan, Jonathan M.Munguti, Kevin O. Obiero, Domitila N. Kyule, Jimmy B. Mboya, Ahmad Fatan Nurulhuda, Rodrigue Yossa, Menaga Meenakshisundaram
DEVELOPMENT AND SCALING OF SUSTAINABLE INSECT-BASED FEEDS FOR RESILIENT AQUATIC FOOD SYSTEMS IN KENYA: A SCOPING STUDY OF FISH FEED INGREDIENTS AND FARMER ADOPTION POTENTIAL

Mary Lundeba, Gregory Kasanga, Matthew Owen, Nurulhuda Ahmad Fatan, Patience Chungu
FISH FEED INGREDIENTS AND VALUE CHAIN DYNAMICS IN ZAMBIA: A SCOPING STUDY ON AVAILABILITY, SEASONALITY AND FEED DEMAND

Caroline Ireti Ayo Olalusi, Lenient Mercy Ibiyo, Niéyidouba Lamien, Rodrigue Yossa, Nurul Ahmad Fatan, Mathew Owen
SCALING OF SUSTAINABLE AQUAFEEDS IN AFRICA WITH REFERENCE TO NIGERIA SCOPING STUDY

Nurul Ashikin Elias, Matthew Owen, Nurul Huda Ahmad Fatan, Ning Shahira Sharbini, Mohamad Izwan Ilias, Muhammad Zaid Mohd Zamrin, Wan Ahmad Iqbal Wan Mohd Adli
CONVENTIONAL VERSUS UNDERUTILIZED PLANT-DERIVED FEED INGREDIENTS FROM ZAMBIA, KENYA AND NIGERIA: NUTRIENT PROFILES AND TRIAL-SPECIFIC DIET DIGESTIBILITY IN GIFT TILAPIA

Arnold Irabor, Rodrique Yossa, Owen Matthew, Parisa Norouzitallab, Johan Dicksved, Daisy Vanrompay, Kartik Baruah
SOLID-STATE FERMENTATION AS AN IMPROVEMENT STRATEGY FOR LOCALLY SOURCED AQUAFEED INGREDIENTS

Menaga Meenakshisundaram, Duncun Muiruri, Jimmy B. Mboya, Ahmad Fatan Nurulhuda, Matthew A.G. Owen, Chrysantus M. Tanga
FERMENTATION VERSUS PHYSICOCHEMICAL PROCESSING FOR IMPROVING THE NUTRITIONAL QUALITY, SAFETY, AND FUNCTIONALITY OF LOCALLY AVAILABLE AQUAFEED INGREDIENTS IN KENYA

Patience Chungu, Rodrigue Yossa, Matthew Owen, Mette Sørensen, Kartik Baruah
PROCESSING AND CHARACTERISATION OF NOVEL ZAMBIAN FEED INGREDIENTS FOR POTENTIAL USE IN TILAPIA DIETS

Murat Sartas
PATHWAYS TO SCALING SUSTAINABLE AQUAFEED SOLUTIONS

SEAWEED VALUE CHAIN

Thursday, December 03 09:00 - 12:40 Sadaani
Chairs: Bernice McLean, Amelio Buriyo

CHECK THE APP FOR SPEAKER TIMES

Ruth Garcia Gomez
WBG AQUAINVEST PLATFORM SEAWEED ACTIVITIES

Ruth Garcia Gomez
WBG GLOBAL SEAWEED MARKET REPORT: NEW AND EMERGING APPLICATIONS FOR FARMED SEAWEED

Ruth Garcia Gomez
WBG AND KOREA EXCHANGE PROGRAM ON SEAWEED VALUE CHAIN

Ruth Garcia Gomez
WBG TANZANIA CASE STUDY ON SEAWEED FARMING

Henriques Bustani, Bruno Oliveira, Maira Adamo, Gonçalves Bernabé
SCALING SUSTAINABLE SEAWEED FARMING IN MOZAMBIQUE: LESSONS AND OPPORTUNITIES FOR COMMUNITY-BASED BLUE ECONOMY DEVELOPMENT

Robert Eliakim Katikiro, Angelina Michael
CHALLENGES AND OPPORTUNITIES OF SEAWEED SUPPLY CHAIN IN MAINLAND TANZANIA

Alice Mushi, Flower Msuya, Batuli Yahaya, Rajabu Ameir, Muharami Issa, Ali Rashid
THE JOURNEY OF ZANZIBAR SEAWEED DAY: FROM AWARENESS RAISING TO VALUE-CHAIN TRANSFORMATION

Bruno Oliveira
SEAWEED CULTIVATION IN MOZAMBIQUE AND PATHWAYS FOR SUSTAINABLE EXPANSION

Ruth Garcia Gomez
TNC SEAWEED FARMING UPDATES

MAKING SMALL FARMERS BANKABLE

Thursday, December 03 09:00 - 12:40 Mafia
Chair: Rohana Subasinge

CHECK THE APP FOR SPEAKER TIMES

Ruskiyat Badmus
MAKING THE INVISIBLE BANKABLE: FIELD LESSONS ON FINANCING SMALLHOLDER AQUACULTURE – FROM DATA GAPS TO DEAL FLOWS

Abubakar Usman
DEMONSTRATING THE BANKABILITY OF AQUACULTURE IN NIGERIA: EVIDENCE FROM LOAN REPAYMENT PERFORMANCE AND INNOVATIVE CREDIT SCHEMES FOR SMALL SCALE FARMERS

Erick John
ACCESS TO FINANCE IN AQUACULTURE: LESSONS FROM FUNDING SMALLHOLDER FISH FARMERS AND SMALL BUSINESSES IN KENYA

Foungnigue Traore Epse Djire
CONNECTING SMALL-SCALE FISH FARMERS WITH FINANCIAL SOLUTIONS

Jacob Adzikah, Ama Nunoo, John Scicchitano, Ama Buegyiwa Nunoo
BRIDGING THE INVESTMENT GAP: A FRAMEWORK FOR ACCELERATING ACCESS TO FINANCE FOR AQUACULTURE CHAMPIONS IN GHANA

Stefano Gasparini
VSLA DIGITALISATION AS A PATHWAY TO FINANCE FOR SMALLHOLDER AQUACULTURE PRODUCERS

AQUATIC ANIMAL HEALTH TILAPIA

Thursday, December 03 11:00 - 12:40 Udzugwa
Chairs: Ben North, Alexander Kefi

CHECK THE APP FOR SPEAKER TIMES

Adili Mbembela, Isaack Maganga, Elisa Mwega, Eliezer Mwakalapa, Stephen Mutoloki
BACTERIOLOGICAL AND MOLECULAR CHARACTERIZATION OF BACTERIAL PATHOGENS ASSOCIATED WITH CAGE-FARMED NILE TILAPIA *Oreochromis niloticus* IN LAKE VICTORIA, MWANZA REGION, TANZANIA

Aviti Mmochi, Jestina Ntaguda, Eliezer Mwakalapa, Oysten Evensen, Stephen Mutoloki
FISH FARMING PRACTICES IN THE COASTAL AND LAKE ZONES IN TANZANIA: THE FACTORS ASSOCIATED WITH FARMER-REPORTED DISEASE IN FISH FARMS

Stephen Mutoloki
BUILDING CAPACITY AND GENERATING KNOWLEDGE FOR AQUATIC ANIMAL HEALTH IN SUB-SAHARAN AFRICA: A DECADE OF PROGRESS

FARMER EDUCATION: MEETING FARMERS' NEEDS IN AFRICA

Thursday, December 03 11:00 - 12:40 Mikuma
Chair: John Walakira

CHECK THE APP FOR SPEAKER TIMES

Femi Dairo, Oluwabukola Mustapha, Afolasade O. Sodunke, Omolola Solomon, Boluwape Okikiola, Seliat Fayemi, Victor Ayeni, Oluwole Ikupolati, Esther Abioye, Victoria Onaah, Wisdom Ezekiel, Kevwe Enaibe, Sofolabi Sofela, Fadil Abdulkadir
DARA PLATFORM: CLOSING AFRICA'S AQUACULTURE DATA GAP

Seyram Amanie-Adjei, John Domozoro, Karen Veverica
THE GHANA LAKE WATCH PROGRAM: A YEAR OF DISSOLVED OXYGEN AND TEMPERATURE PROFILES AT TWO CAGE SITES

Morgan Cheatham, Dominique Bureau, Stephen Gunther, Harsha Galkanda
FARM-FEED MILL PARTNERSHIPS FOR BETTER TILAPIA PERFORMANCE: RESULTS FROM MULTIPLE FIELD TRIALS AND DEMONSTRATIONS

Nurudeen Tiamiyu, Sejiro Oke-Tojinu
BIOLOGICAL PERFORMANCE AND ECONOMIC VIABILITY OF AN 80% SOY-BASED SINKING FEED FOR GIFT TILAPIA IN STATIC EARTHEN PONDS

Olatoye Fajimi
ENCOURAGING YOUNG PROFESSIONALS TO TAKE UP A CAREER IN AQUACULTURE: THE LASCAFAN EXPERIENCE

Jeff Terhune, Evans Danso, Sejiro Oke-Tojino, Charles Ngugi, Joshua Neiderman, Chris Slemp
UPDATE AND EXPANSION OF A COMMERCIAL TRAINING PROGRAM WITHIN THE PRIVATE SECTOR FOR EMERGING AQUACULTURE INDUSTRIES IN EASTERN AND WESTERN SUB-SAHARAN AFRICA

CONTRIBUTED SESSION 3

Thursday, December 03 11:00 - 12:40 Amboni
Chair: Casius Aruho

CHECK THE APP FOR SPEAKER TIMES

Faith Atukwatse, Christine Betty Nagawa, Timothy Omara, Christine Kyarimpa, Solomon Omwoma Lugasi, Rose Basooma, Gerald Kwikiriza, Patrick Ssebugere, Gladys Namuswe Namuswe
MICROPLASTIC CONTAMINATION IN LAKE VICTORIA FISH BREEDING HABITATS: IMPLICATIONS FOR SUSTAINABLE AQUACULTURE IN UGANDA

Mavindu Muthoka, Esther Magondu, Markose Zewdie, Douglas Okemwa
POND-BASED IMTA IMPROVES PRODUCTIVITY, ENVIRONMENTAL PERFORMANCE AND SEDIMENT ORGANIC MATTER IN COASTAL KENYA

Augustine Ajaebili, Damilare Lanipekun, Isaac Arowolo, Adedunsola Obasa, Chiemela Cyriacus, Oluwatimilehin Kayode, Oluwasanmi Aina, Olumayowa Igado
GROSS OCULAR MORPHOMETRY AND MICROANATOMY OF *Gymnarchus niloticus*: BASELINE INSIGHTS INTO VISUAL ADAPTATION AND AQUACULTURE

Alexandra Pounds, Zaitun Achieng, Alexander Kaminski
SOCIAL IMPACT OF DISEASE OUTBREAKS: MODELLING DISEASE SCENARIOS IN AFRICAN TILAPIA AQUACULTURE

Faridah Bukirwa
HYDRODYNAMICS-SPECIFIC REGRESSION MODELS FOR COST-EFFECTIVE WATER QUALITY MONITORING AT NILE TILAPIA *Oreochromis niloticus* CAGE FARMS IN LAKE VICTORIA

FROM POTENITAL TO TRANSFORMATION: SHAPING THE NEXT DECADE OF AFRICAN AQUACULTURE

Thursday, December 03 11:00 - 12:40 Bagamoyo
Chair: Maryam Bakali

CHECK THE APP FOR SPEAKER TIMES

Muhammad Shahbaz
ARTIFICIAL INTELLIGENCE AND DIGITAL TRANSFORMATION IN AFRICAN AQUACULTURE: OPPORTUNITIES, CHALLENGES AND PATHWAYS TOWARDS 2035

Ruth Garcia Gomez
BUILDING THE NEW AQUACULTURE ECONOMY: MARKETS, INVESTMENTS AND PARTNERSHIPS

Daniel Adjei-Boateng
THE STATUS OF AQUACULTURE DEVELOPMENT IN WEST AFRICA

FROM STRATEGY TO IMPLEMENTATION

SADC Aquaculture Strategy
Cage Culture Regulations

Background / Relevance:
Aquaculture is a fast-growing source of aquatic food, yet SADC production remains concentrated in few Member States. The RASAP 2016–2026 promotes sustainable regional growth. Expanding cage farming requires clear, workable regulations, backed by effective monitoring and enforcement, to protect water quality, ecosystems and long-term sector viability.

SADC Aquaculture Strategy (Mikumi, 14:00 PM – 15:40 PM)
The session will present the revision of the SADC Regional Aquaculture Strategy and Action Plan (RASAP), exploring how experiences from Madagascar, Malawi, Zambia and Uganda can inform regional priorities and national implementation. Uganda provides a comparative perspective as a non-SADC country. (chaired by Motseki Hlatshwayo)

14:00 Welcome Remarks
Director FANR, SADC Secretariat

14:02 Remarks by the Chair of SADC
Belemane Semoli, DFFE, South Africa

14:05 A decade of aquaculture in SADC Region
Mothseki Hlatshwayo, AMLIH

14:20 From Skills to inclusive livelihoods
Mazuba Mwanachingwala, GIZ Zambia

14:35 A subsidy-free approach to sustainable small-scale aquaculture
Mahatsangy Razevason, GIZ Madagascar

14:50 Climate adaptation in the aquaculture value chain
Maxon Ngochera, DoF Malawi

15:05 Aquatic Animal Health and Food Safety
Charles Oberu , MAAIF Uganda

15:20 Panel discussion
Panelists: Lovien Kobusingye (UNWFO), Maxon Ngochera (DoF Malawi), Mahatsangy Razevason (GIZ), Mazuba Mwanachingwala (GIZ)

Cage Culture Regulations (Mikumi, 16:10 PM – 17:50 PM)
Cage aquaculture regulations will serve as a practical example, highlighting the institutional arrangements, implementation steps and roles needed to enable responsible growth while safeguarding environmental and social sustainability. (chaired by Olivier Joffre).

16:10 Opening Remarks & Setting the Scene
Olivier Joffre

16:15 Regulating for good: designing enabling environment for sustainable growth
Dina Rakotonirina, Director Centre for Aquaculture Development, Madagascar

16:25 Experience from Malawi
Titus Phiri, Senior Deputy, Director DoF, Malawi

16:35 The Private-Sector Perspective
Fisho Mwale, Yalelo

16:45 Certification in Practice
Lucas Santos, ASC

16:55 The Financier's Perspective
Julien Million, Worldbank

17:05 Panel discussion
Panel: Mr Dina Rakotonirina (MPEB), Mr Titus Phiri (DoF Malawi),
Mr Fisho Mwale (Yalelo), Mr Lucas Santos (ASC), Mr Julien Million (WorldBank)

SEAWEED

Thursday, December 03 14:00 - 15:40 Meni
Chair: Bernice McLean

CHECK THE APP FOR SPEAKER TIMES

Catriona K. Macleod BLUE-GREEN: LINKING AQUACULTURE AND AGRICULTURE MARKETS FOR FUTURE FOOD SUSTAINABILITY

Danford Mkunda FROM TISSUE CULTURE TO IMPROVED SEAWEED SEEDSTOCK: APPLYING MICROPROPAGATION TO STRENGTHEN ZANZIBAR'S SEAWEED VALUE CHAIN

Bernadette Brown-Webb
THE RED SEAWEED *Gracilaria* AS A POTENTIAL AQUACULTURE SPECIES ON SOUTH AFRICA'S WEST COAST

Ann Denise Ruddy, Yao Kokou-Kpolou, Wasseem Emam
INNOVATION IN AQUACULTURE: INTEGRATING MODULAR OFFSHORE SEAWEED CULTIVATION AND DECENTRALISED FRESH BIOMASS PROCESSING

Amelia S. Buriyo
UNLOCKING THE EAST AFRICAN BLUE ECONOMY: A SCOPING REVIEW OF SEAWEED FARMING, SOCIO-ECONOMIC CHALLENGES AND STRATEGIC INTERVENTIONS

AQUATIC ANIMAL HEALTH FRESHWATER FISH

Thursday, December 03 14:00 - 15:40 Sadaani
Chair: Priyanka Mudgil

CHECK THE APP FOR SPEAKER TIMES

Lisa Marie Leknes
FROM LOCAL DISEASE PROBLEM TO EFFECTIVE VACCINE

Abdul Noor Luttamaguzi, Gerald Kwikiriza, Mavindu Muthoka, Ivan Abaho, Catherine Agoe, John Joseph Kisakye, Jackson Efitre, Cassius Aruho
MEDICINAL PLANTS AS A POTENTIAL MANAGEMENT STRATEGY FOR DISEASES OF FARMED FISH IN UGANDA, KENYA, AND TANZANIA: LESSONS FROM ASIA; A REVIEW

Serge Corneillie, David Cherel, Christophe Tanguy
POSTBIOTICS FROM FERMENTED *Lactobacillus* STRAINS PRIME INNATE IMMUNITY AND IMPROVE CLIMATE CHANGE TOLERANCE IN FISH AND SHRIMP

Arlette Noel Ndjuissi Tamko, Herve Nga Onana, Ruben Ngouana Tadjong, Divine Doriane Yemdjie Mane, Paul Alain Nana, Constant Nyami, Paulin Nyadjeu
EFFECT OF PROBIOTICS SUPPLEMENTATION ON WATER QUALITY, GROWTH PERFORMANCE AND SURVIVAL OF *Clarias gariepinus* FINGERLINGS REARED AT DIFFERENT STOCKING DENSITIES IN CAMEROON

CONTRIBUTED SESSION 4

Thursday, December 03 14:00 - 15:40 Amboni
Chair: Martin Van Brackel

Didzis Dreimanis
MEAT AND BONE MEAL AS A SUSTAINABLE PROTEIN SOURCE IN AQUAFEEDS: OPPORTUNITIES, CHALLENGES, AND FUTURE PERSPECTIVES

Paul Mwera
ADVANCING SUSTAINABLE AQUACULTURE UNDER FISH4ACP: DEVELOPMENT, TESTING, AND SCALING POTENTIAL OF BLACK SOLDIER FLY-BASED FISH FEED IN ZIMBABWE AND BUILDING INCLUSIVE VALUE CHAINS THROUGH FINGERLING HUBS AND CLUSTER MODEL

Paul Mwera
BUILDING INCLUSIVE AQUACULTURE VALUE CHAINS THROUGH FINGERLING HUBS AND FARMER CLUSTERS: LESSONS FROM ZIMBABWE'S HUB-AND-SPOKE MODEL

Samuel Hancock
WASTEWATER TRANSFORMATION AND ORGANIC WASTES ELIMINATION INITIATIVE IN INDIAN OCEAN AFFECTING BLUE ECONOMY INVOLVING AQUACULTURE PRESENTATION

Margarida Saavedra, Inês Cacela-Rodrigues, Amparo Gonçalves, Cheila Almeida
LOOKING BEYOND THE FARM: USING LIFE CYCLE ASSESSMENT TO UNDERSTAND THE ENVIRONMENTAL FOOTPRINT OF AQUATIC FOOD PRODUCTION

VALUE CHAIN, MARKETS AND TRADE

Thursday, December 03 14:00 - 17:50 Selous
Chairs: Vincent Doumizel, Bernice McLean

CHECK THE APP FOR SPEAKER TIMES

Michael Oke
CHALLENGES OF MARKET ACCESS FOR DEVELOPING COUNTRIES: NAVIGATING THE TRADE-DEVELOPMENT NEXUS, FOOD SAFETY, AND SUSTAINABILITY COMPLIANCE

Christopher Aura, Hezrone Awandu, Lucy Kimani
INTEGRATED AQUACULTURE SYSTEMS AND SPATIAL PLANNING: MAPPING VALUE CHAIN PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT

Markose Zewdie, Esther Magodu, Mariska Bottema, Rahma Adam, Rodrigue Yossa
IS THERE A MARKET FOR SUSTAINABLE AQUACULTURE? VALUATION AND TRANSFERABILITY OF IMTA PREFERENCES IN KENYA, BANGLADESH AND NIGERIA

Anton Immink, Alexandra Pounds, Pauson Mpabukire, Tim Messeder
ASSESSMENT OF THE VALUE OF HUBS TO SUPPORT TILAPIA AQUACULTURE AND MARKET DEVELOPMENT IN RUKUNGIRI, UGANDA

Isaac Baidoo, Kwamina Banson, Khalid Kusi, Michael Osae
PROFITABILITY AND PRODUCTION COST DRIVERS OF SMALLHOLDER TILAPIA AQUACULTURE IN GHANA: IMPLICATIONS FOR COMMERCIALISATION AND INVESTMENT

Amy Colle Gaye
A COMBINATION OF INNOVATION AND INVESTMENT TO DRIVE A SUSTAINABLE TRANSITION FROM OYSTER HARVESTING TO OYSTER FARMING IN SENEGAL

Bernadette Fregene, Elizabeth Akuwa, Pentecost Fada
ENHANCING AQUACULTURE PRODUCTIVITY IN AFRICA THROUGH TECHNOLOGY TRANSFER AND INCLUSIVE VALUE CHAIN DEVELOPMENT THROUGH THE TAAT PROGRAM

A**udrey Tchoundi**
AQUACULTURE DRIVING BLUE TRANSFORMATION: A VALUE CHAIN APPROACH IN KENYA, TANZANIA AND MOZAMBIQUE

Joseph Luomba, Evans Boafo Nsafoah
FARMERS' PERCEPTIONS AND FACTORS INFLUENCING WILLINGNESS TO ADOPT EDIBLE INSECT- AND SPIRULINA-BASED FISH FEED

David Wanjui, Joseph Onjala, Laura Barasa, Tabitha Kiriti-Ng'ang'a
DRIVERS OF VALUE ADDITION PARTICIPATION IN THE BLUE ECONOMY: A CASE STUDY OF THE FISHERIES SECTOR IN THE COASTAL REGION OF KENYA

IMTA

Thursday, December 03 14:00 - 17:50 Sadaani
Chair: Geofry Rucho

CHECK THE APP FOR SPEAKER TIMES

Mohamed Al-Wahaibi, Rayan Al Nadabi, Gilha Yoon
THE USE OF DATES AND WHEAT-BARELY AS CARBON SOURCE FOR THE PRODUCTION OF BIOFLOC IN THE FARMING OF THE PACIFIC WHITE SHRIMP *Litopenaeus vannamei*

Nassrin Mashaii
PRODUCTION OF ORNAMENTAL PLANTS IN THE AQUAPONIC SYSTEM

Douglas Okemwa, Esther Magondu, Markose Zewdie, Mavindu Muthoka, David Mirera
SUITABLE SPECIES AND REGULATORY PATHWAYS FOR INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA) DEVELOPMENT ON THE KENYAN COAST

Aviti Mmochi, Amon Shoko
INTEGRATED MULTI-TROPHIC AQUACULTURE (IMTA) MODEL FOR CO-CULTURE OF SEAWEED AND SEA CUCUMBER: EXPERIENCE FROM SEA-BASED COMMUNITY FARM IN PEMBA, ZANZIBAR, TANZANIA

Aboubacar Toguyeni, Abdoul Aziz Tapsoba, Abdoul Rasmané Sawadogo, Amadou Diallo, Aboubacar Sourabie
INTEGRATION OF FISH FARMING AND CROP PRODUCTION: A SUSTAINABLE APPROACH TO DIVERSIFYING FOOD PRODUCTION AND OPTIMIZING RESOURCES IN BURKINA FASO

Pierre-Olivier Fontaine, Coumba Ndong, Jean Fall, Mariama Sagne, Rachel Maguepeo, Selemane Thiaw, Sophie Chabot, Valérie McInnis, Véronique Dumas
BUILDING A COMMUNITY AQUAPONIC ECOSYSTEM BASED ON CIRCULAR ECONOMY IN RURAL SENEGAL: A CASE STUDY

Victor Okomoda, James Fasakin
INNOVATION ASSIMILATION OF BRACKISH-WATER INTEGRATED MULTI-TROPHIC AQUACULTURE IN PERI-URBAN AND RURAL NIGERIA: A TALE OF TWO COMMUNITIES, BADAGRY AND ODE-OMI

Elena Mente, Katerina Loufi, Petros Papakyriakidis, Savina Sadiku
ADVANCING DIVERSIFICATION OF EU AQUACULTURE FOR SUSTAINABLE, HEALTHY AND CIRCULAR FOOD SYSTEMS: DIVERSIFY4Future PROJECT

INNOECOFOOD: AQUACULTURE AND AFRICAN FOOD SYSTEMS

Thursday, December 03 14:00 - 17:50 Mafia
Chairs: Nazlin Howell, Kimerei Tafiri

CHECK THE APP FOR SPEAKER TIMES

Etornyo Agbeko, Deogratias Mulokozi, Samuel Limbu, Cyprian Odoli, Peter Oduor-Odote, Lawrence Abbey, Esther Wahaga, Mary Glover-Amengor, Benjamin Mintah, Ebenezer Appiah, Nabil Ibrahim, Diaa Al-Kenawy, Kwabena Bugyei, Eric Ofori, Janet Addo, Nazlin Howell, Mariana Palma, Antonio Marques
DEVELOPING SUSTAINABLE AQUACULTURE ECOHUBS IN AFRICA: PERFORMANCE POTENTIAL, ECONOMIC VIABILITY, AND IMPLEMENTATION BARRIERS IN GHANA, KENYA, EGYPT AND TANZANIA

Godfrey Kubiriza, Robinson Odong, Agnes Nandutu, Peter Akoll, Catherine Nanyonga, Ampaire Akongo, Johnson Mayega
BRIDGING THE READINESS-CAPACITY GAP IN SMALLHOLDER AQUACULTURE: TRAINING EXPOSURE, STATED TECHNOLOGY WILLINGNESS AND ENABLING CONDITIONS

Seyit Yuzuak, Murat Telli, Ercan Selcuk Unlu, Seyit Ali Kamanli, Betul Yilmaz Ozturk, Orhan Yavuz, Ahmet Eren Gokdemir, Furkan Arslan, Redife Aslihan Ucar, Mary Opiyo, Judith Nyunja, Deogratias Pius Mulokozi, Etornyo Agbeko, Esther Whaga, Benjamin Mintah, Patrick Senam Fatsi, Yasser Moustafa, Rahem Abd El-Wahab, Cyprian Odoli, Nazlin K. Howell, Mariana Palma, António Marques, Qing Ma, Gui Li, Deyu Xie
ISOLATION AND MOLECULAR CHARACTERIZATION OF SPIRULINA TYPE CYANOBACTERIA FROM ALKALINE LAKES IN KENYA AND TANZANIA

Samwel Limbu, Romanus Malobora, Paulo Ezekiel, Amina Mndeme, Remijius Leonidas, Job Samson, Verynice Temu, Betina Lukwambe
OPTIMISING BLACK SOLDIER FLY *Hermetia illucens* LARVAL PRODUCTION AND PROCESSING FOR ANIMAL FEED QUALITY AND FRASS VALORISATION WITHIN A CIRCULAR ECONOMY

Maria Leonor Nunes, Antónia Juliana Pais-Costa, Ricardo Pereira, Carla Pires, Mariana Palma, Beatrice Olack, Munira Gilani, Florence Kyallo, John Kinyuru, António Marques
DEVELOPMENT AND EVALUATION OF PROTEIN-ENRICHED BISCUITS USING TILAPIA PROTEIN HYDROLYSATES, SPIRULINA AND CRICKET POWDER

Giulia Pastori, Rebecca Brooks, Yana Manyuk, Melinda Mastan, Daniel Amanquah, Severin Spring, Sarah Pima, Kesso Gabrielle van Zutphen-Küffer, Rebecca Brooks, Yana Manyuk, Melinda Mastan, Daniel Amanquah, Severin Spring, Sarah Pima, Kesso Gabrielle van Zutphen-Küffer
FOOD SECURITY AND FISH CONSUMPTION – FROM LAKE TANGANYIKA TO INLAND COMMUNITIES: A MIXED-METHODS ANALYSIS

Diaa AlKenawy, Mohamed Al-Zahaby, Haytham Abd El-Ghaffar, Emad Abosaty, Benadict Isiaho, Hamis Hincha, Arthur Wamani, Mohamed Fathi, Nabil Ibrahim
COMMUNITY KNOWLEDGE, ATTITUDES, AND PRACTICES FOR AQUACULTURE AND EMERGING FOOD AND FEED VALUE CHAINS IN ABBASSA, EGYPT: A CROSS-SECTIONAL BASELINE STUDY

Victor Siamudaala, Netsayi Mudege, Keagan Kakwsha, Mary Lundeba
A SHIFT TO BUSINESS ECOSYSTEM-BASED TRAINING FOR ENHANCED ENTREPRENEURIAL CAPACITY OF SMES IN AQUATIC FOOD SYSTEMS

Mary Namwanje, Agnes Nandutu Masawi, Robinson Odongo, Peter Akoll, Nazlin Howell, Edward Ssebuufu, Ronald Mujjuzi, Godfrey Kawooya Kubiriza
NUTRIENT-DENSE SNACK BARS FROM STUNTED FARMED NILE TILAPIA, SPIRULINA, HOUSE CRICKET AND LOCAL COMPOSITE AGRO-FOOD INGREDIENTS

Nazlin Howell, Agnes Nandutu, Godfrey Kubiriza, Robinson Odong, Munira Gilani, Beatrice Olack, Peter Odote, Benjamin Mintah, Mary Glover-Amengor, Esther Wahaga, Lawrence Abbey, Stephen Barrion, John Kinyuru, Gareth Kituu, Florence Kyallo, Maria Nunes, Nabil Ibrahim, Dia Al-Kenaawy, Amira Elhanafy, Lawrence Okettayot, Deogratias Mulokozi, Salome Shayo, Cynthia Mudalungu, Chrysantus Tanga
ADDRESSING FOOD INSECURITY AND MALNUTRITION THROUGH INNOVATIVE PROCESSING OF AQUACULTURE FISH AND NOVEL PROTEIN SOURCES INTO FOOD PRODUCTS IN AFRICA BY MULTIDISCIPLINARY TEAMS

NATIVE SPECIES AQUACULTURE IN AFRICA: FROM BIODIVERSITY STEWARDSHIP TO COMMERCIAL SCALE

Thursday, December 03 14:00 - 17:50 Bagamoyo
Chair: Annemarie Vogelberg

CHECK THE APP FOR SPEAKER TIMES

Rohana Subasinghe
NATIVE SPECIES IN AQUACULTURE: STATUS, OPPORTUNITIES AND CHALLENGES WITH SPECIAL REFERENCE TO AFRICA

Beatrice Nyakorema Marwa, Emma Teresa Liwenga
THE CROSS-BORDER REGULATORY FRAMEWORK FOR NATIVE SPECIES AQUACULTURE IN THE LAKE TANGANYIKA BASIN

Alexander Chetkovich
HOW CAN FARM DATA GUIDE THE DOMESTICATION AND EXPANSION OF NATIVE TANGANYIKA TILAPIA?

Imani Kapinga, Fridolin Nzambimana, Colin Apse
CONSERVATION, POLICY, AND NATIVE SPECIES AQUACULTURE: BUILDING ENABLING FRAMEWORKS FOR SUSTAINABLE DEVELOPMENT AND THE PROTECTION OF LAKE TANGANYIKA'S UNIQUE BIODIVERSITY

Deogratias Mulokozi, John Miyekelo, Huruma Mgana, Jonas Nyandwi, Julius Kimaryo, Julius Assam, Prisca Mziray
LAKE TANGANYIKA NATIVE SPECIES AQUACULTURE: ENVIRONMENTAL CONSIDERATIONS AND FARMING TRIALS

Severin Spring
WHAT IS THE PRODUCTION AND ECONOMIC POTENTIAL OF NATIVE SPECIES AQUACULTURE ON LAKE TANGANYIKA?

Imad Patrick Saoud
SIGANIDAE: MARINE HERBIVORES FOR EAST AFRICA

Bongani Eunice Mdoma, Edwin Kikamba, Evans Mutanuka, Chisomo Jim Phiri, Roster Kafola, Chad Kancheya, Rabecca Mainza, Lumbwe Kalumba
DOMESTICATING *Auchenoglanis occidentalis* FOR AFRICAN AQUACULTURE: CAPTIVE GROWTH, DIETARY ADAPTATION AND REPRODUCTIVE MATURATION IN ZAMBIA

Christian Larbi Ayisi, Adelaide Henewaa, Grace Afumwaa Boamah, Samuel Osei Ayeh, Adele Aglago, Mariama Sanny Mohammed
EFFECTS OF DIETARY PROTEIN SOURCES ON GROWTH, SURVIVAL, WATER QUALITY AND GILL HISTOLOGY OF *Galatea paradoxa* (MOLLUSCA: BIVALVIA)

Barbara Baasubinin Campion, Prince Ofori-Darkwah, Regina Esi Edziyie
EFFECT OF DIFFERENT WEANING DIET ON THE SURVIVAL AND GROWTH PERFORMANCE OF THE AFRICAN BONYTONGUE *Heterotis niloticus* FRY RAISED IN GREENWATER

WISHH FARMER TRAINING #2

Thursday, December 03 14:00 - 17:50 Katavi
Chair: Karen Veverica

CHECK THE APP FOR SPEAKER TIMES

Karen Veverica
THE WISHH FISH FARMERS SESSIONS

AQUATIC ANIMAL HEALTH – CONTINUED

Thursday, December 03 16:10 - 17:50 Udzugwa
Chair: Nelly Isyagi

CHECK THE APP FOR SPEAKER TIMES

Rishita Changede, Alagukanthasami Ponsrinivasan, Abhijith E K, Dhaval Bamaniya, Rahul Krishnan, Adharsh Jayanth
PROGRAMMABLE NANOPEPTIDES FOR ORAL IMMUNOPROTECTION AGAINST *Streptococcus agalactiae* IN NILE TILAPIA *Oreochromis niloticus*

John Walakira, Catherine Agoe, Ezra Tumukunda, C.P. Castells, L. Lauke, Adrian Astier
CO-OCCURRENCE OF EMERGING FISH ISOLATED FROM INFECTED FARMED TILAPIA IN THE LAKE VICTORIA REGION, UGANDA: *Aeromonas* sp., *Edwardsiella* sp. AND *Francisella* sp.

Nelly Isyagi, Nigel Swift, Hamish Rodger, Garcia del Blanco Noemi, Refaat El-Gamaal, Flavie Vial, Liz Wagstrom
WOAH'S PRIORITISATION OF DISEASES FOR WHICH VACCINES COULD REDUCE GLOBAL ANTIBIOTIC USE IN ANIMALS (PROEVA) INITIATIVE - FISH IN AQUACULTURE

Abdul Noor Luttamaguzi, John Joseph Kisakye, Jackson Efitre, Cassius Aruho
COMPARATIVE STUDY OF *IN VITRO* EFFECTS OF METHANOL LEAF EXTRACTS OF *Azadirachta indica*, *Moringa oleifera* AND *Bidens pilosa* AGAINST *Gyrodactylus* spp. OF *Oreochromis niloticus* FINGERLINGS

Shalom Mangondo, Thoko Kapalamula, Jeremiah Kang'ombe, Stephen Mutoloki, Daud Kassam
EVALUATION OF GARLIC AND ONION EXTRACTS AGAINST *Aphanomyces invadans IN VITRO*

SEAWEED CONTINUED

Thursday, December 03 16:10 - 17:50 Meni
Chair: Catriona McLeod

CHECK THE APP FOR SPEAKER TIMES

Zamlata Haji Mkeruke, Esther Mvungi, Emmanuel Sangu, David Simiyu, Samora Andrew, Amelia Buriyo
SEASONAL PATTERNS OF ICE-ICE AND BIOFOULING ON CULTIVATED EUCHEUMATOID SEAWEEDS: IMPLICATIONS FOR FARM MANAGEMENT AND BIOSECURITY IN TANZANIAN SEAWEED MARICULTURE

Nurudeen Tiamiyu, Olarenwaju Badmus, Sejiro Oke-Tojinu
THE STARTUP OF SEAWEED FARMING IN NIGERIA, A NATIONAL BLUE ECONOMY INVESTMENT AND COASTAL LIVELIHOOD INITIATIVE

Happiness Mgadala, Samora Macrice, Amelia Buriyo, George Sangu
MODELING THE DISTRIBUTION OF ICE-ICE DISEASE IN CULTIVATED SEAWEEDS: "WHAT IS KNOWN AND WHAT REMAINS UNKNOWN FOR ENHANCING CLIMATE RESILIENCE"

Othman Omar Othman, Abubakar Thabit Nouman, Zahor Kassim El-Kharousy
ADVANCING SUSTAINABLE SEAWEED AQUACULTURE IN ZANZIBAR: INNOVATIONS, OPPORTUNITIES AND INVESTMENT PATHWAYS

Fadhili Estomini, Esther Mvungi, Samora Macrice, David Simiyu, Stephen Nnungu, Amelia Buriyo
CLIMATE-RESILIENT SEAWEED FARMING PRACTICES IN TANZANIA: FARMER-IDENTIFIED COPING AND ADAPTIVE MEASURES TO CROP-HEALTH CHALLENGES

CONTRIBUTED SESSION 5

Thursday, December 03 16:10 - 17:50 Amboni

Chair: Crispen Phiri

CHECK THE APP FOR SPEAKER TIMES

Erick John
AFFORDABLE FEED WITHOUT COMPROMISING QUALITY: FIXING THE RAW MATERIAL BOTTLENECK IN EAST AFRICAN AQUAFEED

Msengi Gabriel, Atuganile Malambugi, Alistidia Mwijage, Jamila Kalambo, Godfrey Fabiani, Joyce Raphael, Azama Ismail, Emmanuel Ntobi, Prosper Mremi
NUTRITIONAL POTENTIAL OF LOCAL *Artemia* FOR AQUACULTURE AND ITS LINK TO ENVIRONMENTAL CONDITIONS IN TANGA, TANZANIA

Prince Ofori-Darkwah, Benedicta Nyadeva, Seyram Amanie-Adjei, Charles Osei-Wusu, John Tietaa Domozoro, Enock Nsobila, Daniel Adjei-Boateng
THE SUITABILITY OF DRIED BLACK SOLDIER FLY LARVAE AND COMMERCIAL DIET AS FEED FOR CATFISH *Clarias gariepinus* FRY AND FINGERLING

Crispen Phiri
FROM VALUE CHAIN ANALYSIS TO INVESTMENT: PRELIMINARY RESULTS AND LESSONS FROM THE FISH4ACP PROGRAMME ON FARMED TILAPIA IN ZIMBABWE, 2019 TO 2026

Joyce Ikwaput Nyeko, Nambi Rebecca Walugembe, Milliam Nkawombe
APPLICABILITY OF DRIVERS-PRESSURES-STATE-IMPACTS-RESPONSES (DPSIR) FRAMEWORK FOR ANALYZING AQUACULTURE GROWTH TRAJECTORIES: A CASE STUDY OF UGANDA

FRIDAY, December 4

PLEASE NOTE: PRESENTATION TIMES

WA2026 Tanzania presentations for each session are listed in the order of presentation when the Programme Book goes to press. The presentation times have been omitted because there are many late changes after the Programme Book is printed. The **WA2026 Tanzania Conference APP** will show the presentation times and will be updated during the conference as changes are received. Late cancellations will be marked "Cancelled" in the APP. The **WA2026 Tanzania APP** will have the most current version of the Programme and will better assist attendees in planning their schedules.

Friday Break 10:20 – 10:50
Friday Lunch 12:40 – 14:00

AQUAFEEDS

Friday, December 04 09:00 - 10:20 Meni
Chairs: John Domozoro, Samwel Limbu

CHECK THE APP FOR SPEAKER TIMES

35 El-Sayed
FEED ADDITIVES IN AQUACULTURE: ARE THEY ALWAYS BENEFICIAL?

Caroline Joseph Odum, Honor Ifon, Akaninyene Joseph
AI-DRIVEN PRECISION NUTRITION ENHANCES CLIMATE RESILIENCE IN TROPICAL AQUACULTURE

Bruce Robin Nyamweha, Collins Muhangi, Sunday Robert, Martin Sserwadda, Wycliffe Tumwesigye, Sylvester Katuromunda
GROWTH PERFORMANCE OF AFRICAN CATFISH FINGERLINGS AFTER FEEDING THEM WITH FERMENTED RIPE BANANA, JACKFRUIT SEEDS, AND SWEET POTATO TUBER DIETS

Chao Luan
FROM MORE FEED TO BETTER FEED: HOW PRECISION MANUFACTURING CAN SUPPORT EAST AFRICA'S AQUACULTURE GROWTH

SHRIMP, SHELLFISH AND CRUSTACEANS

Friday, December 04 09:00 - 10:20 Mafia
Chair: Sherif Sadek

CHECK THE APP FOR SPEAKER TIMES

Dastani Fredrick
ASSESSMENT EFFECT OF LIVE CULTURED FEED AND COMMERCIALLY FORMULATED FEED ON THE GROWTH, WATER PARAMETERS, AND SURVIVAL RATE OF JUVENILE TIGER SHRIMPS *Penaeus monodon*

Sherif Sadek, Mahmoud M. Abdel-Hady, Ahmed A. Barrania, Shaimaa M. Haggag, Amal M. Faragallah, Deyaaedin A. Mohammad, Abdel-Fattah M. El-Sayed, Mahmoud M. Abdel-Hady, Ahmed A. Barrania, Shaimaa M. Haggag, Amal M. Faragallah, Deyaaedin A. Mohammad, Abdel-Fattah M. El-Sayed
FROM SCENARIO TO IMPLEMENTATION: ACTORS, MECHANISMS AND PATHWAYS FOR SHRIMP AQUACULTURE DEVELOPMENT IN AFRICA

Jeremy Huet
FROM WILD HARVEST TO COMMUNITY ENTERPRISE: FARMING NATIVE MANGROVE OYSTERS FOR LIVELIHOODS AND MANGROVE CONSERVATION IN NORTHERN MOZAMBIQUE

WAS PALOP

Friday, December 04 09:00 - 10:20 Katavi
Chairs: Francisca Delgado, Delvis Fortes

CHECK THE APP FOR SPEAKER TIMES

Márcia P.V. Costa
AQUACULTURA EM CABO VERDE

Margarida Saavedra, João Cotter
SCHOOL AQUAPONICS IN PALOP COUNTRIES: AN EDUCATIONAL APPROACH TO FOOD SECURITY, WATER EFFICIENCY AND YOUTH ENTREPRENEURSHIP

Esperanza Silva, Domingos da Silva Neto
DESEMPENHO PRODUTIVO DA TILÁPIA-DO-NILO *Oreochromis niloticus* NO CENTRO DE AQUACULTURA DE MASSANGANO, CUANZA NORTE, ANGOLA

Teodoro Sanjuluca, E. Oliveira, M. Simão
AVALIAÇÃO DA QUALIDADE MICROBIOLÓGICA DA CARNE DE RÃ CONSUMIDA NOSMINICÍPIOS DO CUANHAMA E NAMACUNDE

Francisca Delgado
RESENHA SOBRE O ESTADO DA AQUICULTURA EM ANGOLA: SITUAÇÃO ACTUAL, POLÍTICAS PÚBLICAS, PRODUÇÃO, EMPREGO, DESAFIOS E PERSPECTIVAS

Pedro Pousão-Ferreira, Rui Rocha, Lidia Nicolau
CONHECIMENTO, INOVAÇÃO E CAPACITAÇÃO PARA O DESENVOLVIMENTO SUSTENTÁVEL DA AQUACULTURA NOS PALOP

Rui Miranda Rocha, Lourenço Ramos-Pinto, Pedro Pousão-Ferreira, Mafalda Carapuço, Miguel Miranda, Amadeu Soares
AQUACULTURA EM ÁFRICA: DA CIÊNCIA À CAPACITAÇÃO LOCAL

Pedro Pousão_Ferreira, Ana Candeias-Mendes, Catarina Matias, Marisa Barata, Sara Castanho, João Araujo, Ana Gamboa, Ivo Monteiro, Ravi Araujo, Cátia Lourenço-Marques, Florbela Soares
EPPO – UM CENTRO DE INVESTIGAÇÃO PARA INOVAÇÃO E CAPACITAÇÃO EM AQUACULTURA

SEA CUCUMBER

Friday, December 04 09:00 - 12:40 Mikuma
Chairs: Lili Xing, Zaki Sharawy, Geofrey Rucho

CHECK THE APP FOR SPEAKER TIMES

Jay R. Gorospe, Cathy Hair, Chintamanee Meetun, Kalaivani Samynadhen, Lakshana Bundhoo, Nushreen Jeenally, Manoj Fakoo, Sattiss Conhye, Paul Southgate
NURSERY REARING OF SANDFISH *Holothuria scabra* JUVENILES IN MAURITIUS: GROWTH PERFORMANCE AND SURVIVAL IN POND-BASED NURSERY SYSTEMS

Timothy Klückow
MAKING COASTAL COMMUNITIES INVESTABLE: COMMUNITY-OWNED SEA CUCUMBER RANCHING AND THE CORE ZONE MODEL IN ZANZIBAR

STRENGTHENING AQUACULTURE EDUCATION

Friday, December 04 09:00 - 12:40 Sadaani
Chairs: Joy Alexander, Semvua Mzighani

CHECK THE APP FOR SPEAKER TIMES

Pratap Sinha, Jeherul Islam
NEW CERTIFIED COURSE: HOW TO VENTURE INTO SUSTAINABLE AQUACULTURE IN AN INTENSIFYING VUCA WORLD – UNLOCKING RURAL BUSINESS, FOOD SECURITY, CLIMATE RESILIENCE, AND ENERGY SOLUTIONS

Clifford Jones, Arissa Greeff
INTEGRATING EDUCATION WITH COMMERCIAL AQUACULTURE

Chris Parker, Gavin Johnston, John Collins
THE ESTABLISHMENT OF A PROFESSIONAL AQUACULTURE BUSINESS STRUCTURE AND SENIOR MANAGEMENT SKILLS UPGRADING FOR A CATFISH CLUSTER IN NIGERIA

Gavin Johnston, Arissa Greeff
THE EVOLUTION OF THE ACMS ONLINE LEARNING PLATFORM FOR DRIVING COMMERCIAL AQUACULTURE DEVELOPMENT: LESSONS, CHALLENGES, AND NEXT STEPS

Joy Alexander BRIDGING THE HUMAN CAPABILITY GAP: A REORIENTATION OF AQUACULTURE EDUCATION FROM TECHNOLOGY TRANSFER TO LONG-TERM HUMAN CAPABILITIES

Wouter van Vliet
SAMAKI POA: WHAT FOUR YEARS OF COMBINING DIGITAL LEARNING, VOCATIONAL TRAINING AND FEED SUPPLY HUBS TAUGHT US ABOUT SCALING AQUACULTURE SKILLS IN EAST AFRICA

Frank Bwalya
STRENGTHENING AQUACULTURE EDUCATION THROUGH DIDACTIC SHEETS

Majory Kalima
STRENGTHENING AQUACULTURE EDUCATION THROUGH MONITORING EVALUATION AND DIGITAL FEEDBACK

Mahatsangy N.A. Razevason, Julien Sadousty, Josia N. Ramananjaona, Olivier M. Joffre
CAN SMALLHOLDER FISH FARMERS BECOME ENTREPRENEURS? EXPLORING COLLECTIVE BUSINESS SERVICE DEVELOPMENT IN SMALL-SCALE AQUACULTURE

INNOVATIVE AQUACULTURE SYSTEMS AND PRACTISES

Friday, December 04 09:00 - 12:40 Bagamoyo
Chairs: Daud Kassam, Sherif Sadek

CHECK THE APP FOR SPEAKER TIMES

Motselisi Mokhele-Peete
INTEGRATING GIS, WATER HARVESTING, AND FINANCIAL LITERACY FOR CLIMATE-RESILIENT INLAND AQUACULTURE SYSTEMS IN AFRICA

Herve Lucien-Brun, Baraka Kalangahe, Jonax Namoc Basit, Farida Buzohera, Eric Vigne
IN-POND RACEWAY SYSTEMS (IPRS) FOR TILAPIA IN AFRICA: A CONCRETE EXAMPLE, TANLAPIA ADVANTAGES AND DISADVANTAGES FOR SUB-SAHARAN AFRICA

Christelle Andriamampianina, Paula Senff, Jean-Michel Mortillaro, Tovonarivo Rafolisy, Malalatiana Razafindrakoto
RICE-FISH FARMING INTENSIFICATION: EFFECTS OF A FEEDING INTENSITY GRADIENT IN *Cyprinus carpio* ON ECOSYSTEM SERVICES IN THE MALAGASY HIGHLANDS

Joachim Kuzimbila Yongo, Fabrice Muvunja
LOCAL PRODUCTION DYNAMICS OF TILAPIA NILOTICA IN PONDS WITH EXTENSIVE (CRAFT AND NON-COMMERCIAL) AND SEMI-INTENSIVE (COMMERCIAL) SYSTEMS IN THE RUZIZI PLAIN OF SOUTH KIVU IN THE DEMOCRATIC REPUBLIC OF CONGO

Wael Ahmed, Joshua Rosettani
ENERGY-EFFICIENT WATER CIRCULATION AND THERMAL MANAGEMENT IN NET-PEN AQUACULTURE USING AIRLIFT PUMPS

Barend Stander
COLD WATER ON A WARM CONTINENT: AN EVIDENCE-BASED FRAMEWORK FOR ATLANTIC SALMON *Salmo salar* FARMING IN THE BENGUELA UPWELLING SYSTEM

Mary-Jane Thaela-Chimuka, Tumelo Maduwa
DSTI-ARC BIOSECURE RAS PLATFORM FOR MOZAMBIQUE TILAPIA *Oreochromis mossambicus* SELECTIVE BREEDING, GENETIC IMPROVEMENT AND BROODSTOCK DEVELOPMENT IN SOUTH AFRICA

Lakshman Kumar Morukurti, Rama Sankar Naik, P. Sankar Rao, Chandra Sekhar Anapa, Krishna Rao V, Vvr Babu, Santosh Kumar Ch
COMMUNITY-BASED CAPTIVE FISH SEED NURSERIES THROUGH VB-G RAM G CONVERGENCE: A DECENTRALISED MODEL FOR SUSTAINABLE INLAND FISHERIES AND RURAL LIVELIHOOD ENHANCEMENT IN ANDHRA PRADESH, INDIA

Thomas A. Goulding
UNTAPPED POTENTIAL: THE CASE FOR BIVALVE AQUACULTURE IN AFRICA

Aviti Mmochi, Levinus Mapenzi, Kulwa Mtaki, Mchele Limbu
THE EFFECT OF SALINITY AND DENSITY ON HYBRIDS OF NILE TILAPIA *O. niloticus* FEMALE AND RUFIJI/WAMI TILAPIA *O. urolepis* MALES

AQUATIC ANIMAL HEALTH – CONTINUED

Friday, December 04 09:00 - 15:40 Udzugwa
Chair: Nelly Isyagi

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Mary Nantongo, Arthur Ssekyanzi, Martin Sserwadda, Simon Zziwa, Brian Baguma, John Walakira
VALIDATION OF AN ENVIRONMENTAL DNA (eDNA) DIAGNOSTIC TOOL FOR USE IN AQUACULTURE IN UGANDA

Jestina Ntaguda, Aviti Mmochi, Amr Gamil, Elisabeth Gislefoss, Øystein Evensen, Stephen Mutoloki
INVESTIGATION OF DISEASE OUTBREAKS IN FARMED NILE TILAPIA IN COASTAL TANZANIA (PWANI REGION) REVEALS *Pseudomonas aeruginosa* AS THE MOST FREQUENTLY ISOLATED PATHOGEN

Moses Limuwa, George Litereko, Gladson Kamwendo
LINKING FARM-LEVEL RISK FACTORS TO SOCIO-ECONOMIC IMPACTS: A CASE STUDY OF EPIZOOTIC ULCERATIVE SYNDROME (EUS) IN MALAWI'S AQUACULTURE SECTOR

Deborah Adah, Adakole Sylvanus Adah, Todimu Victor Osagbemi, Lawal Saidu, Sonnie Joshua Oniye
BIOSECURITY PRACTICES AND RISK DETERMINANTS ASSOCIATED WITH THE OCCURRENCE OF *Aeromonas* INFECTIONS IN FARMED FISH

Rui Miranda Rocha, João Gonçalves-Martins, Morgana Ângelo, Lourenço Ramos-Pinto, Sílvia Pires, Pedro Pousão-Ferreira, Paulo Rema, Bárbara Requeijo, Cátia Lourenço-Marques, Iris Silva
UNLOCKING NOVEL STRESS BIOMARKERS IN NILE TILAPIA *Oreochromis niloticus:* FROM CHALLENGE MODELS TO WELFARE AND FUNCTIONAL SCREENING

Deborah Adah, Nelly Isiagi, Kunda Ndashe, Gillian Taylor
THE WORLD AQUATIC VETERINARY MEDICAL ASSOCIATION (WAVMA): ADVANCING AQUATIC VETERINARY MEDICINE, ANIMAL HEALTH AND WELFARE GLOBALLY

Deborah Adah, Adakole Sylvanus Adah, Kenechukwu Onwuama
AQUATIC VETERINARY TRAINING AT THE FACULTY OF VETERINARY MEDICINE, UNIVERSITY OF ILORIN: A NIGERIAN STORY OF INNOVATION AND EXCELLENCE

Magoti Ndaro, Alexanda Mzula, Anthony Funga, Cyrus Rumisha
ECONOMIC IMPACT OF DISEASE OUTBREAKS ON CAGE FISH FARMING IN TANZANIA'S LAKE VICTORIA BASIN

Foungnigue Traore Epse Djire
DRIVING SUSTAINABLE AQUACULTURE THROUGH STRONGER BIOSECURITY

Paula Senff
DEVELOPING AQUACULTURE APPROACHES FOR SCHISTOSOMIASIS BIOCONTROL IN MADAGASCAR

Gift Mkanthama, Philip Nyaga, Wisdom Changadeya, Daud Kassam
OPPORTUNISTIC BACTERIA ASSOCIATED WITH *Aphanomyces invadans*-INFECTED FISH TISSUES IN MALAWI: MOLECULAR CHARACTERIZATION CONTEXT

FEED FOR THOUGHT: BUILDING A COMPETITIVE AND SUSTAINABLE AQUACULTURE INDUSTRY IN AFRICA

Friday, December 04 10:50 - 12:40 Meni
Chair: Jared Serem

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Valentin Eckart, Warlley Mendes Figueiredo, Maria Mabel de Medeiros Camara, Marcos Aurelio Victor de Assunção, Merit Busola Olujimi, Naiane Cristina de Lima Silva, Moacir Franco de Oliveira, Natanael Silva Félix, Alair Alves Pereira da Rocha Neto, Murilo Mora Assis, Patrícia Versuti Arantes Alvarenga, Silvia Letícia Fornel Ferreira, Paulo Ricardo Lima Oliveira, Maria Fernanda Menegucci Praes, Matheus Ramalho de Lima
PARTIAL REPLACEMENT OF INORGANIC TRACE MINERALS WITH GLYCINATES: EFFECTS ON PERFORMANCE, FILLET QUALITY, AND PHYSIOLOGICAL STATUS OF NILE TILAPIA *Oreochromis niloticus*

Mohamed Soula
FROM STATIC FORMULATION TO PRECISION NUTRITION: THE ROLE OF NIR TECHNOLOGY IN BUILDING COMPETITIVE AND SUSTAINABLE AQUACULTURE FEEDS

Ojo Oke, Sejiro Michael Oke-Tojinu, Jeffery Terhune
GROWTH PERFORMANCE AND ECONOMIC ANALYSIS OF ADULT AFRICAN CATFISH *Clarias gariepinus* FED SOYBEAN MEAL-BASED DIETS

Angela Cornel
IMPROVING AQUACULTURE PRODUCTIVITY THROUGH FEEDING MANAGEMENT AND TECHNICAL SUPPORT

GENETICS AND BREEDING

Friday, December 04 10:50 - 17:40 Mafia
Chair: Cyrus Rumisha

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Apatsa Pearson Chelewani, Pemphero Bexter Kumbani, Hassib Sainan, Daud Kassam
UNBALANCED SEX RATIOS IN FARMED AND WILD *Oreochromis shiranus*: UNINTENDED SEX REVERSAL OR DIFFERENTIAL SURVIVAL AT WORK?

Gerald Kwikiriza, Catherine Agoe, Papius Dias Tibihika, Peter Akoll, Manuel Curto, Rose Basooma, Harald Meimberg
BEYOND A SINGLE TYPE: INTEGRATIVE SSR–EPIC ANALYSIS REVEALS GENETIC STRUCTURE AND ADMIXTURE IN EAST AFRICAN *Oreochromis* SPECIES

Jorge Fernandes, Ioannis Konstantinidis
SINGLE-CELL DNA METHYLATION AND CHROMATIN CONFORMATION IN BLOOD CELLS FROM ATLANTIC COD *Gadus morhua* UNDER PHOTOPERIOD MANIPULATION

Kelly Brown, Paul Southgate, Lindon Havimana, Aviti Mmochi, Rose Basiita, Brian Stockwell, Nguyen Duy, Monal Lal
GENETIC STRUCTURE AND DIVERSITY OF THE *Holothuria* (*Metriatyla*) *scabra* (SANDFISH) SPECIES COMPLEX: IMPLICATIONS FOR FISHERY MANAGEMENT AND MARICULTURE

Ivan Abaho, Nasser Kasozi, Izaara A. Arinaitwe, Gerald Kwikiriza, Richard Ddungu, Papius D. Tibihika, Catherine Agoe, Cassius Aruho, Margaret Aanyu, John K. Walakira, Pablo A.C. Refusta, Carolina A. Araya, Vito A.M. Filho, José M. Yáñez
IS GENOMIC SELECTION THE FUTURE OF NILE TILAPIA AQUACULTURE IN UGANDA? LESSONS FROM GLOBAL BREEDING PROGRAMS

Debbie Plouffe, Matt Kramer, John T. Buchanan, Matthew Josephson, Ashutosh Pudasaini, Yehwa Jin, Stefan Samu, Brandon Tsai, Simon Hill
GENOME EDITING FOR HIGH-VALUE TRAITS IN COMMERCIAL-SCALE BREEDING PROGRAMS

Binyam Dagnachew, M. Lillehammer, Solomon Boison, Matt Baranski, W. Brand, Øystein Evensen, Bjarne Gjerde
SURVIVING IS NOT ENOUGH: GENETIC POTENTIAL TO IMPROVE GROWTH RESILIENCE IN ATLANTIC SALMON UNDER CO-INFECTION

Balázs Kovács, Réka Eniko Balogh, Regina Benda, István Lehoczky, Katalin Bogár, Safiara Nusrat Nova, Dániel Péter
ANALYSES OF GENETIC CHANGES OF A GROWTH-SELECTED AFRICAN CATFISH *Clarias gariepinus* LINE

Papius Dias Tibihika, Cassius Aruho, Asilatu Hamisi Shechonge, Kevin Obiero, Adam Ciezarek, Rose K. Basiita, Elysee Nzohabonayo, Mary Alphonce Kishe, Alex Durrant, Thomas Brabbs, Daniella Shipley, Tom Barker, Sacha Lucchini, Kendall Baker, Leah Catchpole, Chris Watkins, Karim Gharbi, Wismen Bendula, John A.H. Benzie, Wilfried Haerty
EMPLOYING MULTI-GENOMIC TOOLS TO DISCERN CICHLID FISH POPULATIONS IN EAST AFRICA, KEY FOR SELECTIVE BREEDING TO IMPROVE AQUACULTURE PERFORMANCE AND BIODIVERSITY SUSTAINABILITY

Richard Ddungu, Sadhat Walusimbi, Charles Masembe, Wilson Wesley Lazaro Jere, Godfrey Kawooya Kubiriza, Papius Dias Tibihika, Clever Amanya, Shamim Naigaga, Hakimu Bwire, John Bolingo, Bruno Nkwasibwe, Margaret Aanyu
GENETIC IMPROVEMENT POTENTIAL OF UGANDAN NILE TILAPIA *Oreochromis niloticus* FOR CLIMATE-RESILIENT AQUACULTURE: GROWTH, METABOLIC PERFORMANCE, THERMAL TOLERANCE AND HERITABILITY

Victor Okomoda, Samuel Mengistu, Mengistie Terefe, Bornwell Seemani, Farai Muchadeyi
STATUS, GAPS, AND REGIONAL PATHWAYS FOR GENETIC IMPROVEMENT PROGRAMMES IN AFRICAN AQUACULTURE: A 17-COUNTRY SYNTHESIS

Samuel Bekele Mengistu, Sameh Metwaly, Mai Rafeek, Ahmed Nasr-Allah, Matthew G. Hamilton
COMPARATIVE PERFORMANCE OF THE GENERATION 15 GENETICALLY IMPROVED ABBASSA NILE TILAPIA *Oreochromis niloticus* AND A COMMERCIAL STRAIN IN EARTHEN PONDS IN EGYPT

Acheampong Addo, Ruby Asmah, Emmanuel Tetteh-Doku Mensah, Rhoda Lims Diyie, Seth Agyakwah, Sena Amewu, Catherine Ragasa
BEYOND FINGERLING PRODUCTION: LINKING GENETIC SCIENCE TO SEED QUALITY POLICY AND THE FUTURE OF GHANA'S TILAPIA INDUSTRY

Debbie Plouffe
THE NEXT GENERATION OF GENETIC IMPROVEMENT: WHAT GENOME EDITING COULD MEAN FOR AFRICAN AQUACULTURE

ASIA–AFRICA AQUACULTURE CENTRE (A3 CENTRE): BUILDING PARTNERSHIPS FOR SUSTAINABLE AQUACULTURE DEVELOPMENT

Friday, December 04 14:00 - 15:40 Mikuma
Chairs: Bernice McLean , Krishna Salin

From cooperation to action: practical pathways for African–Asian aquaculture partnerships

Session synopsis

Africa's aquaculture sector offers considerable opportunities to improve food and nutrition security, create employment, and support economic development. However, realizing this potential requires more than natural resources. Reliable seed and feed supplies, appropriate technologies, skilled personnel, access to finance, and functioning markets are essential for commercially viable and environmentally sustainable growth.

Aquaculture cooperation between Asia and Africa spans several decades. Asia's extensive experience in aquaculture production, research, education, and enterprise development provides a strong foundation for further collaboration. Effective partnerships must build on African expertise and priorities, adapting successful approaches to local environmental, economic, and social conditions.

The Asia–Africa Aquaculture Centre (A3 Centre) seeks to strengthen these connections, particularly through business-to-business partnerships supported by research institutions, universities, governments, and development organizations. Priority areas include technology development and adaptation, education and practical training, investment, equitable trade, and digital tools that improve farm management, extension services, and market access.

This side event at World Aquaculture 2026 Tanzania will bring together African and Asian stakeholders to share experiences, examine lessons from existing partnerships, and identify opportunities for collaboration. Discussions will consider what has worked, what has constrained progress, and how cooperation can deliver lasting benefits for producers and other aquaculture enterprises, including women, youth, and small-scale operators.

Drawing on programme experiences and South–South cooperation, the session will explore how the World Aquaculture Society and its networks can help connect partners and translate shared interests into practical initiatives. The intended outcome is to identify partnership priorities and next steps that support a productive, inclusive, and sustainable African aquaculture sector.

OPENING & STRATEGIC PERSPECTIVES

14:00 **Welcome and opening remarks**
Leila Basti, WAS-APC President-Elect

14:05 **African blue economy priorities and Asia–Africa aquaculture partnerships**
Bernice McLean. AUDA-NEPAD

14:10 **Partnerships for inclusive aquaculture: A development partner perspective**
Kimberly Churchwell, Gates Foundation

14:15 **The role of WAS in Enhancing Asia/Pacific–Africa Aquaculture South–South collaboration** **Peter Britz,** Aquaculture Africa Programme Manager

14:25 **Asia-Africa Aquaculture Centre (A3 Centre): Building partnerships for sustainable aquaculture across Africa**
Krishna R. Salin, AIT, Thailand

II INSTITUTIONAL & REGIONAL PERSPECTIVES

14:35 **Development cooperation for sustainable aquaculture: Lessons for Asia–Africa partnerships** **Sven Genschick,** GIZ

14:42 **Connecting aquaculture research and innovation across Africa and Asia**
David Jeffry, WorldFish

14:49 **West African aquaculture: Priorities and regional collaboration**
Daniel Adjei-Boateng, WAS African Chapter

14:56 **East African aquaculture: Priority needs and partnership opportunities**
Victoria Tarus, WAS-AC, Eastern Africa

15:03 **Sustainable aquaculture in Tanzania: Priorities and partner opportunities**
Nazael A. Madalla, Ministry of Livestock & Fisheries, Tanzania

III MODERATED PANEL & NEXT STEPS

15:10 **From dialogue to action: An Asia–Africa aquaculture partnership agenda for 2027**
Moderator: **Rohana P. Subasinghe Panel contributors:**
Gavin Johnston, ACMS, South Africa
Edward Paul Munaaba, Uganda
Sagada Gladstone, Victory Farms, Kenya
Benter Anyango, WAS-Africa Student Director

15:40 **Closing reflections, next steps and group photograph**
Bernice McLean, AUDA-NEPAD

PROCESSING AND VALUE ADDING

Friday, December 04 14:00 - 15:40 Sadaani
Chairs: Shelika Funmiola, Tabu Mungia

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Daniel Amanquah, Giulia Pastori, Rebecca Brooks, Yana Manyuk, Melinda Mastan, Severin Spring, Kesso Gabrielle van Zutphen-Kuffer
TILAPIA PRESERVATION STRATEGIES AND PERCEPTIONS: SHELF-LIFE ANALYSIS OF NATIVE FISH FROM LAKE TANGANYIKA

WAS STUDENT SESSION

Friday, December 04 14:00 - 15:40 Katavi
Chair: Abdul Noor Lutamaguzzi

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AQUAFEED INGREDIENTS

Friday, December 04 14:00 - 17:40 Meni
Chairs: Anton Immink, Daniel Adjei-Boateng

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Rui Miranda Rocha, Sarah Pauthier, Inês Freitas, Morgana Ângelo, Florbela Soares, Silvia Gregório, Rui Sousa, Wilson Pinto, Luís Conceição, Pedro Pousão-Ferreira, Cátia Lourenço-Marques, Iris Silva
BEYOND NUTRITION: EXPLORING THE IMMUNOMODULATORY POTENTIAL OF ALGAE-BASED FUNCTIONAL FEEDS IN MARINE FISH

Paulo Tebulo, Daud Kassam
EVALUATION OF BODY COMPOSITION AND SAPONIN CONTENT IN MUSCLES OF *Oreochromis shiranus* FED ON *Acacia nilotica* PODS EXTRACT

Maria Leonor Nunes, Mariana Palma, Cyprian Odoli, Deogratias Mulokozi, Godfrey Kawooya Kubiriza, Lawrence Abbey, Nabil Ibrahim, Seyit Yuzuak, Stephen Barrion, Nazlin Howell, António Marques
INTEGRATED AQUACULTURE, SPIRULINA AND INSECT PRODUCTION FOR SUSTAINABLE FOOD AND NUTRITION SECURITY IN AFRICA: THE INNOECOFOOD PROJECT

Mary Njeri Chege, Samuel Appelbaum
VALORIZATION OF HUMAN FOOD WASTE VIA *Hermetia illucens* BIOCONVERSION: ACCELERATING THE BLUE TRANSFORMATION OF EAST AFRICAN AQUACULTURE

Gregory Kasanga, Mary Lundeba, Matthew Owen, Nurulhuda Ahmad Fatan, Majory Chama, Alexander Greiling
DETERMINATION OF DIETARY PROTEIN REQUIREMENTS IN GENETICALLY IMPROVED AND NON-IMPROVED STRAINS OF *Oreochromis andersonii*

Custodio Gabriel Bila, Fatima Dulobo, Lerisse Jozine, Mariana Novela
FROM SLAUGHTERHOUSE BLOOD WASTE TO AQUAFEED PROTEIN: PROCESSING PERFOMANCE, NUTRITIONAL QUALITY AND LESSONS LEARNED FROM INDUSTRIAL TRIALS IN MOZAMBIQUE

Nurulhuda Ahmad Fatan, Matthew A.G. Owen, Tan Joo Shun, Wong Xin Ai
IMPROVING THE NUTRITIONAL QUALITY OF LOCAL INGREDIENTS OF SUB-SAHARAN AFRICA THROUGH HYDROLYTIC PRETREATMENT AND SOLID-STATE FERMENTATION FOR AQUAFEED USE

Chloe Kemigabo, Ivan Kyobe, Sowedi Masaba, Rebecca Gimbo, Alice Nakiyemba, Elly Sabiiti
OPTIMIZING LOCALLY AVAILABLE ORGANIC SUBSTRATES FOR LOW-COST PRODUCTION OF BLACK SOLDIER FLY *Hermetia illucens* LARVAE AS A FISH FEED PROTEIN SOURCE IN UGANDA

Gianluigi Negroni
NAVIGATING GEOPOLITICAL INSTABILITY: STRENGTHENING SUPPLY CHAIN RESILIENCE AND LEVERAGING LOCAL INGREDIENT IN THE GLOBAL AQUAFEED INDUSTRY

AQUATIC ANIMAL WELFARE

Friday, December 04 14:00 - 17:40 Mafia
Chair: Wasseem Emam

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Radi Mohamed, Mohamed Bakr, Nada Habashi, Wasseem Emam, Sarah Wahltinez, Christian van Rijn, Christine Huynh, Ahmad Hamza, Mahmoud Eltholth
EVALUATING THE USE OF ICE-SLURRY STUNNING AND SLAUGHTER FOR IMPROVING FARMED NILE TILAPIA WELFARE AND FILLET QUALITY IN EGYPTIAN AQUACULTURE

Mohamed Bakr, Nada M. Habashi, Mostafa A. Etreby, Radi Mohamed, Wasseem Emam
PRACTICAL INNOVATIONS IN SHRIMP WELFARE: FROM FORAGING TO SLAUGHTER

Naveeth Basheer
ANIMAL WELFARE ISSUES IN GHANAIAN TILAPIA HATCHERIES AND CAGE FARMS

Mwenda Mbaka
ADVANCING AQUATIC ANIMAL WELFARE IN KENYA: FROM POLICY TO PRACTICE

Felix Onyeka Nwose, Francis Oster Nwachi, Jerimoth Kesena Ekelemu
BEHAVIOURAL AND PHYSIOLOGICAL STRESS RESPONSES AS INTEGRATED WELFARE INDICATORS IN FARMED AFRICAN CATFISH *Clarias gariepinus*

Felix Nwose, Francis Oster Nwachi, Jerimoth Kesena Ekelemu, Wasseem Emam
FISH WELFARE PRACTICES AND RISK FACTORS IN CLUSTERED AQUACULTURE FARMS IN SOUTHERN NIGERIA

Edmund Peeler
WORLD ORGANISATION OF ANIMAL HEALTH (WOAH) STANDARDS FOR FISH WELFARE DURING TRANSPORT AND AT SLAUGTHER

Evans Danso
LEARNING AND IMPROVING TOGETHER: COLLECTIVE PROGRESS IN FISH WELFARE

AQUACULTURE AND THE ENVIRONMENT CONTINUED

Friday, December 04 16:00 - 17:40 Mikuma
Chair: Charles Ngugi

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Michael Kellya, Nadine Antenen, Ben Scott, Lukas Widmer, Severin Spring, Verynice Masaoe
AQUACULTURE INFRASTRUCTURE AS HABITAT FOR WILD FISH: PRELIMINARY CICHLID OBSERVATIONS FROM LAKE TANGANYIKA

Esther Uruemukaro Edewho, Ademola Micheal Akinsorotan
EFFECTS OF FISH CAGE-CULTURE ON ZOOPLANKTON ABUNDANCE IN THE TROPICAL RESERVOIR OF ITAPAJI, SOUTH-WEST, NIGERIA

Musa Alhaji Musa, Dahiru Sani, Abdulkarim Muhammad, Mohammad Noor Amal Azmai, Abdulrahman Mohammed Lawan, Princess Mercy Ogo
HEALTH RISK ASSESSMENT OF ARSENIC AND ALUMINUM CONCENTRATIONS IN WATER AND TISSUES OF NILE TILAPIA *Oreochromis niloticus* FROM HADEJIA NGURU WETLANDS, NIGERIA

Alemken Mengist, Minwyelet Mingist, Abebe Getahun
AGE DETERMINATION AND GROWTH OF NILE TILAPIA *Oreochromis niloticus* IN LAKE HAYQ, ETHIOPIA

Amber Himes-Cornell, Angela Lentisco, Heidi Alleway
AQUACULTURE'S ROLE IN BIODIVERSITY CONSERVATION THROUGH OTHER EFFECTIVE AREA-BASED CONSERVATION MEASURES: OPPORTUNITIES FOR CONTRIBUTING TO TARGET 3 OF THE KUNMING-MONTREAL GLOBAL BIODIVERSITY FRAMEWORK

AQUACULTURE IN SOCIETY

Friday, December 04 16:00 - 17:40 Sadaani
Chair: Lanre Badmus

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Dorine Achieng Were
INTEGRATING INDIGENOUS KNOWLEDGE FOR SUSTAINABLE WATER QUALITY MANAGEMENT IN SMALL-SCALE AQUACULTURE SYSTEMS IN KISUMU, KENYA

Mashebane
WOMEN'S AQUAPONICS DEMONSTRATION AND TRAINING HUB – SOUTH AFRICA

Amare Mezgebu Alamrew, Adrino Mazenda, Minwyelet Mingist, Sussy Munialo, Selorm Dorvlo, Frans Swanepoel
A SYSTEMS THINKING APPROACH TO SUSTAINABLE AQUACULTURE DEVELOPMENT IN ETHIOPIA

Godfrey Kubiriza, Agnes Nandutu, Robinson Odong, Peter Akoll, Ampaire Akongo, Catherine Nanyonga, Johnson Mayega
GENDERED PARTICIPATION, MARKET LINKAGES AND ENTERPRISE CONSTRAINTS IN SMALLHOLDER FISH VALUE CHAINS IN UGANDA

GOVERNANCE, POLICY & REGULATION

Friday, December 04 16:00 - 17:40 Udzugwa
Chair: Jacob Adzikah

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John Alosias
A POLICY BRIEF ON STRENGTHENING FISH FARMING AND TRADE FOR BLUE TRANSFORMATION IN SOUTH SUDAN

Amber Himes-Cornell, Francesco Cardia, Lucy Bowse
ROADMAP FOR ASSISTING COUNTRIES WITH MARINE SPATIAL PLANNING FOR COASTAL AND MARINE AQUACULTURE

Terje Tingbø, Margrete Fagereng, Ben North, Lisa Marie Leknes
PREVENTION DELAYED – GOVERNANCE BARRIERS TO FISH VACCINE DEVELOPMENT

WOMEN LEADERS IN AQUACULTURE

Friday, December 04 16:00 - 17:40 Katavi
Chairs: Mary-Jane Thaela-Chimuka, Foluke Areola

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Vivian Phiri
FROM PARTICIPATION TO LEADERSHIP: ADVANCING WOMEN AND YOUTH IN AQUACULTURE DEVELOPMENT IN SOUTHERN AFRICA

Veronica Mpomwenda, Gertrude Atukunda, Papius Dias Tibihika
WOMEN AND YOUTH IN UGANDA'S AQUACULTURE VALUE CHAIN: EVIDENCE FOR A GENDER-TRANSFORMATIVE ACTION PLAN

NOTES