

WAVMA | University of Pretoria WORLD AQUATIC HEALTH Conference 2022 Programme

4 - 7 DECEMBER 2022

FUTURE AFRICA CAMPUS | UNIVERSITY OF PRETORIA | SOUTH AFRICA (HYBRID)

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Advancing Aquatic Health and Veterinary Medicine through Global Connections
Ubuntu – I Am Because We Are

CONFERENCE DAY 1 | SUNDAY, 4 DECEMBER 2022

"From Local to Global Aquatic Health: Meeting Aquatic Needs with Sound Solutions"

Location: Future Africa Auditorium

Time	Speaker	Presentation Title
08:00		Registration
09:00	Gillian Taylor	Welcome <i>President WAVMA</i>
09:15	Nick Nwankpa	Introductory Remarks: Perspectives of the African Union, Interafrican Bureau for African Resources (<i>Ag. Director; AU-IBAR</i>)
09:30	John Walakira	Introductory Remarks: The Role of the World Aquaculture Society in Aquatic Health Management (<i>Director, National Agricultural Research Organization (NARO), Abi-Zonal Agricultural Research and Development Institute, President, World Aquaculture Society – Africa Chapter</i>)
09:45	Dietmar Holm	African Association of Veterinary Education Establishments (2A2E) Programs UP (<i>Faculty of Veterinary Science, Deputy Dean for Teaching & Learning</i>)
10:15	Tea/Coffee Break	Topic: Developing a well-trained aquatic veterinary workforce
10:30	A. David Scarfe	Efforts to Ensure a Well-trained Aquatic Veterinary Workforce (<i>UP Faculty of Veterinary Science Extraordinary Professor</i>)
11:00	Mario I. Alguerno	Building Capacities through the Evaluation of Performance of Aquatic Animal Health Services (WOAH PVS Tool – Aquatic) (WOAH)
11:30	Nelly Isyagi	Strengthening the Capacity for Aquatic Animal Health in Africa (<i>Fisheries and Aquaculture Trade and Investment Officer: AU-IBAR</i>)
12:00	Gillian Taylor & Johan Steyl	UP Faculty of Veterinary Science Aquatic Health Unit (<i>UP Faculty of Veterinary Science Extraordinary Lecturer</i>)
12:15	Ryan Nel	The Onderstepoort Aquatics Club: the value of student body education (<i>Chair: Onderstepoort Aquatics Club</i>)
12:30	Lunch	Topic: Meeting Aquatic Veterinary Services Needs
13:30	A. David Scarfe	Expanding WAVMA's Student Chapters throughout the World (<i>UP Faculty of Veterinary Science Extraordinary Professor</i>)
13:45	Alice Namata	The benefits of establishing a WAVMA students chapter at the College of Veterinary Medicine, Animal Resources and Biosecurity (COVAB) Makerere, Uganda
14:00	Stephen Reichley	MSU Fish Innovation Lab and Activities in Africa/Asia (<i>Deputy director and risk mitigation specialist for the Fish Innovation Lab MSU</i>)
14:15	Farah Gonul Aydın	Aquatic Animal Health Education in Veterinary Medicine: A Historical Perspective for Turkey
14:30	Stephen Reichley	Development of the Aquatic Animal Health Veterinary Curriculum at Mississippi State University (<i>Deputy director and risk mitigation specialist for the Fish Innovation Lab MSU</i>)
14:45	Roy Yanong	The University of Florida IFAS Tropical Aquaculture Laboratory: Providing Extension, Research, and Education for Aquaculture Industries in Florida (<i>Professor and Extension Veterinarian UFL Tropical Aquatic Laboratory</i>)
15:15	Tea/Coffee Break	Topic: Supporting Sustainable Aquaculture Needs
15:45	Melba Reantaso, Jose Paragua	Drivers and pathways to disease emergence in aquaculture and possible solutions through the PMP/AB. FAO TrueFish (FAO)
16:15	David Verner-Jeffreys	Cefas international aquatic animal system strengthening capacities (CEFAS)
16:30	Michael Salutin	The Ornamental Fish Industry in South Africa (<i>Equatorial Aquatics</i>)
16:45	Nenene Qekwana	Summation of today's presentations: Moving Forward to Strengthen Aquatic Animal Health (<i>HOD, Department of Para-clinical Sciences, Faculty of Veterinary Science, UP</i>)

18:00 Cocktail evening function @ Future Africa | Visit Exhibitions

19:00 WAVMA AGM



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CONFERENCE DAY 2 | MONDAY 5 DECEMBER 2022

"The Role of the Veterinarian and Para-veterinarian in Aquatic Health Management Programs"

Location: Future Africa

Time	Speaker	Presentation Title (30 minutes)
09:00	Roy Yanong	Challenges and Opportunities: A look into current and evolving roles for veterinarians and other health professionals in Aquatic Veterinary Medicine (<i>Professor and Extension Veterinarian UFL Tropical Aquatic Laboratory</i>)
09:30	Nelly Isyagi	Aquatic Veterinary and Para-Veterinary Practice in Africa: Opportunities and Challenges (<i>Fisheries and Aquaculture Trade and Investment Officer: AU-IBAR</i>)
10:00	Dusan Palic	Pathway to Disease Prevention, Control and Eradication using Principles of Aquatic Veterinary Biosecurity (<i>Chair Fish Diseases and Fishery Biology, Faculty of Veterinary Medicine, Ludwig-Maximilians University, Munich</i>)
10:30	Neale Strauch	A Farmers perspective: Biosecurity and Your Vet. (<i>Farmer, Urban Aquaponics</i>)
10:45	Tea/Coffee Break	

STREAM ONE			STREAM TWO	
Topics: Meeting Aquatic diagnostic needs			Topics: Farm and system level preventative health management/ Biosecurity	
	Speaker	Presentation Title	Speaker	Presentation Title
11:00	Johan Steyl	Aquatic Diagnostics: The Role of Histopathology	Kevin Christison	Surveillance & Early Disease Detection Systems
11:15	Andre Vosloo	The Use of Metabolomics to Assess Aquatic Animal Health	Gillian Taylor	Biosecurity Certification for Developing Regions: TAASA's approach to support SA tilapia aquaculture
11:30	Mariska Laubscher	Diagnostics in Aquaculture	Stephen Reichley	Practical Approaches to Herd Health in Food Fish Aquaculture
11:45	Vernon Coyne	The Use of Biomarkers for Monitoring Chronic Stress in Farmed Abalone	Brandon Spolander	Lactococcus Garviae
12:00	Abdullateef Ajadi	Effects of Different Anaesthetic Agents on Haematological Parameters of Giant African Catfish (<i>Heterobranchus bidorsalis</i>)	Stanley Hughes-Obresi	A Biosecurity Survey of Aquaculture Farms in Parts of Ghana
12:15	Gillian Taylor	Correlations Between Gill Histopathological Markers and Ecto-parasite Burdens in RAS-Farmed Tilapia (<i>Oreochromis spp.</i>) in the Northern Provinces of South Africa	David Kassam	Malawi Taking Strides in the Aquatic Health Arena

12:30 LUNCH				
13:40	Essa Suleman	TILV and ISKNV Diagnostics	Kevin Christison	Integrated Parasite Management Strategies
13:55	Thami Nogwebela	Development of Indicator Cells for Virus Detection.	Chika Ikeogu	Strategies for Overcoming Threats to Fish Production in Nigeria: A Holistic Approach

STREAM ONE			STREAM TWO	
Topics: Antimicrobial Resistance and One Health			Topics: Ornamentals and Aquaria	
	Speaker	Presentation Title	Speaker	Presentation Title
14:15	Laura Urdes	Applying One Health to Aquatic Ecosystems	14:15: Iva Prikrylova	Parasites from ornamental fishes imported into South Africa: so little is known
14:45	Andrew Joseph	FAO AMR Reference centre		
15:00	Sawyer Eric Boyce	Antibiotic Use by Nile Tilapia (<i>Oreochromis niloticus</i>) and African Catfish (<i>Clarias gariepinus</i>) Farmers in Two Fishing Regions, in Ghana	14:45: Francois Lampen	Veterinary Medicine in a Modern Aquarium: Meeting the Challenges in a Changing World
15:15	Adeleke Suliat	Antimicrobial Use and Antimicrobial Resistant Profiles of Bacteria Recovered from Fish Farms in Oyo State, Nigeria		
15:30 Tea/Coffee Break				
15:45	P.N Kayoka-Kabongo	Antibiofilm, Antibacterial Activity and Cytotoxicity of Plant Species from the Anacardiaceae Family Against Selected Fish Pathogens	15:15: Bernice van Huissteen	The use of Gentamicin-Impregnated Polymethyl Methacrylate beads and Surgical Intervention in the Treatment of Resistant Otitis Media and Cranial Abscess in a Juvenile Loggerhead Sea Turtle (<i>Caretta caretta</i>)

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16:00	I. M. Famuyide	Biofilm Forming Capacity of Some Important Fish Associated Pathogens and Determination of the Antimicrobial, Antibiofilm, Anti-inflammatory and Cytotoxic Activities of Selected Compounds of Natural Origin	15:45: Dr Caryl Knox	Sedation of Southern Pompano (<i>Trachinotus africanus</i>) using ketamine, medetomidine and butorphanol delivered via an intramuscular pressurized dart
16:15	John Foord	Biotxin risks in shellfish	16:00: Nick St Erne	Therapeutics for Treating Ornamental Fish
16:30	Wondie Zalalem	Pesticide Concentration in Selected Fish Species and Human Health Risk in the Lake Tana Basin, Ethiopia.	16:30: Celia Snyman	Establishing the University of KwaZulu-Natal Zebrafish Research Facility
19:00	Gala Dinner			

CONFERENCE DAY 2 | STREAM 3

STREAM 3: BREAKAWAY ROOM 3

Topic: Aquatic diseases of concern and sustainable aquaculture

Time	Speaker	Presentation Title
11:00	Gaëlle Nathalie Tinak Satok	Management of Outbreaks of Epizootic Ulcerative Syndrome in Cameroon
11:15	John Walakira	Emerging Pathogens Affecting Tilapia Farming in Uganda
11:30	Bart Gorgoglione	Evaluating <i>Tetracapsuloides bryosalmonae</i> infection in North American salmonids
11:45	Farah Gonul AydiN	The Virulence Characteristics of <i>Pseudomonas spp.</i> and <i>Vibrio spp.</i> Isolated from Cultured Fish Species
12:00	Chika Ikeogu	Vitamin C reduces gastrohepatic alterations induced by lead nitrate in juveniles of African catfish <i>Clarias gariepinus</i>
12:15	Ezra Byakora	Determination of <i>Edwardsiella tarda</i> Median Lethal Dose (LD50) in Nile tilapia (<i>Oreochromis niloticus</i>)
12:30	LUNCH	
13:30	Nana Yaa Asantewaa Donkor	Common Bacteria Isolates on Skin of Farmed Catfish in the Ashanti Region, Ghana
13:45	Roy Yanong	ISKNV
14:15	Sahr Mamoud	Molecular and Phenotypic Analysis of Streptococcal strains: <i>Lactococcus garvieae</i> , <i>Streptococcus dysgalactiae</i> , and <i>Enterococcus faecalis</i> Causing Tilapia spp. Mass Mortalities
14:30	Khethiwe Mtshali	Prevalence of <i>Fasciola hepatica</i> in non-traditional snail hosts: implications on Xenomonitoring and the Control of Fascioliasis
14:45	David Peter Mina Baya	<i>Aeromonas hydrophila</i> : Fish Disease and Control Strategy in South Sudan
15:00	Abdullateef Ajadi	Evaluation of Growth, Haematological, Biochemical and Oxidative Stress Parameters of <i>Clarias gariepinus</i> fed with Leaf Meals of <i>Alstonia boonei</i> and <i>Mitracarpus scaber</i>
15:15	Dr Gugulethu Moyo	Evaluation of a Commercial Probiotic on the Biological Performance of Nile tilapia (<i>Oreochromis niloticus</i>) during Sex-reversal and Extended Nursing in Kenya

15:30 Tea/Coffee Break

Time	Speaker	Presentation Title
15:45	Bart Gorgoglione	Diagnostic investigation upon a large mortality event in an ongrowing carp farm
16:00	Moges Beletew Shenkute	First Report of Monogenean Flat Worms from Lake Tana, Ethiopia: Gill Parasites of Commercially Important <i>Clarias gariepinus</i> and <i>Oreochromis niloticus tana</i>
16:15	Luca Mendes	Domoic Acid Toxicosis May Explain Unusual Mortality in Cape Fur Seals (<i>Arctocephalus pusillus pusillus</i>)
16:30	Tolera Eticha	Macroinvertebrate-based Index of Biotic Integrity for Assessing the Ecological Condition of Lake Wanchi, Ethiopia
16:45	Nadia Eldirdiry Karom	Hazardous Heavy Metals Contaminant in Sudan Fisheries

19:00 WAVMA Gala Dinner | Future Africa



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CONFERENCE DAY 3 | TUESDAY, 6 DECEMBER 2022

"KoiPrax: Introduction to Koi Pond Management and Current Clinical Problems Associated with the Environment"

Location: Future Africa

Time	Speaker	Presentation Title
09:00	Gillian Taylor	Welcome and introductions
09:15	Julius Tepper	Clinical Aspects of Design and Function of Aquasystems
10:45	Tea/Coffee Break	
11:00	Nick St Erne	Koi Life Support Systems and Water Quality
11:45	Julius Tepper and Nick St Erne	Clinical Cases Associated with the Koi Habitat
12:30	LUNCH	
13:30	Julius Tepper	Cold Weather Koi Pond Problems
14:45	Nick St Erne	Warm Weather Koi Pond Problems
15:30	Tea/Coffee Break	
15:45	Julius Tepper, Nick St Erne, and Gillian Taylor	Roundtable Discussion

Free Evening

CONFERENCE DAY 4 | WEDNESDAY, 7 DECEMBER 2022

WETLAB @ 09:00-13:00

"Finfish Clinical Exam, Necropsy & Diagnostic Wet Lab"

Location: Onderstepoort Faculty of Veterinary Science

Time	Activity
09:00	Depart from Future Africa
10:00	Fish Anaesthesia, Clinical Exam, Euthanasia, Necropsy & Diagnostic Sampling Demonstration
10:30	Delegate Teams perform Similar Tasks
12:00	Delegate Discussion / Q&A
13:00	Return to Future Africa

FARM TOUR @ 13:00-17:00

"Aquaculture Farm Tour"

Location: TBD

Time	Activity
13:00	Depart from Future Africa
14:00	Description of Farm Operations
15:00	Delegates Tour Farm
16:00	Delegates Discussion / Q&A
17:00	Return to Future Africa or Hotels

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