

## SUNDAY, 10<sup>th</sup> JULY 2022

18:00 - 20:00 REGISTRATION & MEET AND GREET FOR DELEGATES ATTENDING TECHNICAL TOURS

## MONDAY, 11<sup>th</sup> JULY 2022

### TECHNICAL TOURS

08:30 - 16:00	HERMANUS FIELD TRIP - Abalone Farm Tour	<a href="#">Download brochures here</a>
08:30 - 16:00	FRANSCHHOEK FIELD TRIP - Freshwater Technical Tour	

### 18:00 - 20:00 WELCOMING DRINKS & REGISTRATION

18:30 - 19:15	Official Conference Opening: Chair Mr Henk Stander
18:45 - 19:00	Opening Address: Western Cape Government (Agriculture)
19:00 - 19:15	Opening Address: Department of Forestry, Fisheries and the Environment

## TUESDAY, 12<sup>th</sup> JULY 2022

07:30 - 09:00 Conference Registration

### OPENING SESSION

08:30-11:00	Welcoming Addresses (Chair: Prof Peter Britz)	Presenter	Affiliation
08:30 - 08:35	Official Conference Opening : AASA2022 Conference Chair	Mr Henk Stander	AASA, Stellenbosch University
08:35 - 08:40	Welcome Address: Chairman of the Aquaculture Association of Southern Africa	Prof Pete Britz	AASA, Rhodes University
08:40 - 08:45	Welcome Address: Dean of AgriSciences, Stellenbosch University	Prof Danie Brink	Dean of AgriSciences, Stellenbosch University
08:45 - 09:00	Welcome Address: Western Cape Provincial Minister of Agriculture	Dr Ivan Meyer	Dept of Agriculture, Western Cape Province
09:00 - 10:30	<b>Plenary Session - Keynote Addresses (Chair: Prof Niall Vine)</b>		
09:00 - 09:45	Keynote Address 1: Overview of African Aquaculture and the role of WAS African Chapter in regional aquaculture development	Dr John Walakira	Director of Research, NARO, Arua; President, World Aquaculture Society: Africa Chapter
09:45 - 10:30	Keynote Address 2: Preparing for transboundary aquatic animal diseases: The importance of appropriately evaluated and validated diagnostic assays and establishing effective laboratory networks.	Dr Nick Moody	Senior Research Scientist, CSIRO Australian Animal Health Laboratory
10:30 - 11:15	Formal Poster Session		
	Tea & Coffee Break		

### MORNING PLENARY SESSION - 11:15 to 13:00

11:15 - 13:00	Policy, Development, Planning & Country Overviews	Chair: Mr Belemane Semoli
11:15 - 11:30	Operation Phakisa Aquaculture: Key highlights and lessons	Keagan Halley
11:30 - 11:45	Ensuring planning of feasible aquaculture projects in South Africa	Kishan Sankar
11:45 - 12:00	Creating a model to develop self-sustainable aquaculture agribusiness enterprises in South Africa	Bernadette Brown-Webb*
12:00 - 12:15	Public awareness and marketing strategy for aquaculture products and the sector in South Africa	Lisa Mazaleni
12:15 - 12:30	Constraints for production and commercialization on aquaculture in Limpopo province, South Africa	Tubake Thobejane
12:30 - 12:45	Commercializing tilapia cage farming in East Africa	Gavin Johnston
12:45 - 13:00	Approaching a century of aquaculture evolution in Zambia: Governance models to aquaculture growth pathway	Alexander Kefi
13:00 -14:00	Lunch & Poster viewing	

### PARALLEL EARLY AFTERNOON SESSIONS - 14:00 to 15:30

14:00 - 15:30	Finfish	Chair: Dr Khalid Salie
14:00 - 14:15	Advanced land-based yellowtail kingfish production leading the blue food revolution	Maryke Musson
14:15 - 14:30	Mullet aquaculture in southern Africa – is it worth a look?	Niall Vine
14:30 - 14:45	Success with feral tilapia species in Malawi: A signal of hope for other African states	Ramon Kourie
14:45 - 15:00	Evaluation of the growth performance of rainbow trout fingerlings in flow trough tanks when nanobubble technology is applied	Henk Stander
15:00 - 15:15	Assessment of the efficacy of oral spawning induction peptide delivery techniques in fish.	Chris Fouche'

15:15 - 15:30	Assessment of catfish farming profitability in the federal capital territory of Nigeria: role of scale and experience	Olanrewaju Olagunju*
<b>14:00 - 15:30</b>	<b>Abalone &amp; Ranching</b>	<b>Chair: Mr Rowan Yearsley</b>
14:00 - 14:15	Abalone ranching in South Africa restores a wild <i>Haliotis midae</i> population to sustainable harvest	Peter Britz
14:15 - 14:30	Abalone <i>Haliotis midae</i> population structure and status in the demarcated ranching area EC1, South Africa after the first legal harvest	Andrew Witte
14:30 - 14:45	Waste shells from mollusk aquaculture – technology development for valorisation	Neil Goosen
14:45 - 15:00	Integrated Multitrophic Aquaculture of abalone ( <i>Haliotis midae</i> ) and sea cucumber ( <i>Neostichopus grammatus</i> ): Does it reduce tank-cleaning requirements?	Abigail Onomu*
15:00 - 15:15	The effect of water-off events on the survival, growth and health of farmed abalone ( <i>Haliotis midae</i> )	Bongi Mngqushu*
15:15 - 15:30	Effect of IMTA <i>Gracilaria gracilis</i> on the growth of farmed abalone <i>Haliotis midae</i> .	Njabulo Madlala*
<b>15:30 - 16:00</b>	<b>Formal Poster Session</b>	
	<b>Tea &amp; Coffee Break</b>	

**PARALLEL SESSIONS - 16:00 to 17:00**

<b>16:00 - 17:30</b>	<b>Aquatic Animal Health</b>	<b>Chair: Dr Kevin Christison</b>
16:00 - 16:15	The world of diagnostics	Mariska Laubscher
16:15 - 16:30	Evaluation of the surveillance for the demonstration of freedom from infection with abalone herpes virus in South Africa	Kevin Christison
16:30 - 16:45	Microbiome of dusky kob ( <i>Argyrosomus japonicus</i> ) eggs and hatchery water and efficacy of various chemicals for egg disinfection	Angel Maaepa*
16:45 - 17:00	Why worry about Fish Health?	Gillian Taylor
17:00 - 17:15	Assessment of potential biosecurity measures on the inactivation of macroalgae-transmitted abalone pathogens	Petronilla Mwangudza*
<b>16:00 - 17:30</b>	<b>Aquaculture Research &amp; Capacity Development</b>	<b>Chair: Ms Andrea Bernatzer</b>
16:00 - 16:15	The impact of Aquavita Research on the South African aquaculture industry	Cliff Jones
16:15 - 16:30	An overview of IMTA Lab South Africa: ASTRAL (All Atlantic Ocean Sustainable Profitable and Resilient Aquaculture)	Mark Cyrus
16:30 - 16:45	Buna Africa, an online aquaculture platform designed to provide support and services to farmers and government aquaculture managers	Qurban Rouhani
16:45 - 17:00	The west coast marine aquaculture vocational training centre	Henk Stander
17:00 - 17:15	AUDA-NEPAD Centre of Excellence for Science Technology and Innovation: Introducing Aquaculture	Olalekan Akinbo

<b>18:30 - 19:30</b>	<b>AASA Annual General Meeting</b>	
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**WEDNESDAY, 13<sup>th</sup> JULY 2022**

<b>08:30 - 10:00</b>	<b>Plenary Session - Keynote Addresses (Chair: Dr Brett Macey)</b>	<b>Presenter</b>	<b>Affiliation</b>
08:30 - 09:15	Keynote address 4: Meeting the Standards and Regulations to Access EU Markets with Southern Africa Aquaculture Products	Prof John Bolton	Emeritus Professor and Senior Research Scholar, University of Cape Town
09:15 - 09:35		Ms George Barrett	Head, Trade Programming Southern Africa, Economic Growth Team, British High Commission, Pretoria
09:35 - 10:00		Mr Etienne Hinrichsen	Imani Development Aquaculture expert consulting to Trade Forward Southern Africa
<b>10:00 - 10:45</b>	<b>Formal Poster Session</b>		
	<b>Tea &amp; Coffee Break</b>		

**MORNING PLENARY SESSION - 10:45 to 12:15**

<b>10:45 - 12:15</b>	<b>Integrated Aquaculture &amp; Seaweed</b>	<b>Chair: Prof Cliff Jones</b>
10:45 - 11:00	Using interdisciplinary modelling to assess the feasibility of a commercial scale recirculating aquaculture system integrating sea urchins ( <i>Tripneustes gratilla</i> ) and seaweed ( <i>Ulva lacinulata</i> )	Bas de Vos*
11:00 - 11:15	Feed stimulants from the green alga <i>Ulva</i> for the sea urchin <i>Tripneustes gratilla</i>	Lekraj Etwarising*
11:15 - 11:30	<i>Ulva</i> as a functional ingredient for farmed abalone: impacts on growth, physiology and microbiome	Brett Macey

11:30 - 11:45	Evaluation of biosecure monoculture and imta-produced macroalgae ( <i>Ulva lactuca</i> ) meal as dietary ingredient in feed pellets for south african abalone ( <i>Haliotis midae</i> )	Emmanuel Falade*
11:45 - 12:00	Characterization of <i>Ulva</i> (ulvaceae, chlorophyta) species cultured in commercial abalone farms in South Africa, and comparison with closely related	Teejaswani Bachoo*
12:00 - 12:15	Pre-feasibility study on the potential for commercial cultivation of kelp along South Africa's west coast	Bernadette Brown-Webb*
12:15 - 13:30	<b>Lunch &amp; Poster viewing</b>	
<b>PARALLEL EARLY AFTERNOON SESSIONS - 14:00 to 15:30</b>		
13:30 - 15:00	<b>Nutrition &amp; Feeds</b>	<b>Chair: Dr Chris Fouche'</b>
13:30 - 13:45	Mitigation of the accumulation of off-flavours and other undesirable compounds in marine finfish <i>Seriola lalandi</i> and <i>Argyrosomus japonicus</i> produced in an intensive recirculating aquaculture system (RAS) through the use of a novel feed and feeding strategy.	Andre Bok
13:45 - 14:00	The effect of replacing dietary fishmeal on the growth, survival and FCR of juvenile yellowtail, <i>Seriola lalandi</i> in a Recirculating Aquaculture System (RAS).	Apelele Manjingolo*
14:00 - 14:15	Crocodile meat meal as a fishmeal substitute in juvenile dusky kob ( <i>Argyrosomus japonicus</i> ) diets: Feed utilization, growth performance, blood parameters, and tissue nutrient composition	Reginah Mdhluvu*
14:15 - 14:30	Black mulberry fruit powder as a nutraceutical source in juvenile dusky kob: Physiological and tissue nutrient response	Thabang Mashiloane
14:30 - 14:45	Evaluation of potassium diformate and potassium chloride in the diet of the african catfish, <i>C. larias gariepinus</i> in an integrated aquaculture system	Oyama Guwa
14:45 - 15:00	Dietary inclusion of pine pollen alters sex ratio and promotes growth performance of Nile tilapia, <i>Oreochromis niloticus</i> .	Ivan Abaho*
13:30 - 15:00	<b>Live Feeds/ Hatchery Technology</b>	<b>Chair: Dr Maria Darias</b>
13:30 - 13:45	Sea urchin broodstock conditioning for improved reproductive and offspring performance	Marissa Brink-Hull
13:45 - 14:00	Larval settlement, post-settlement and weaning substrates and regimes for the sea urchin <i>Tripneustes gratilla</i> in closed cycle aquaculture	Michael Bennett
14:00 - 14:15	Investigation of the reproductive biology of farmed and wild warty sea cucumber, <i>Neostichopus grammatus</i> .	Heleen Senekal*
14:15 - 14:30	The effect of chemical and biological cues on the larval settlement of abalone ( <i>Haliotis midae</i> )	Ziyanda Mzozo*
14:30 - 14:45	The effect of the anaesthetics Clove oil and MS-222 on the sedation and recovery of the calanoid copepod, <i>Pseudodiaptomus hessei</i> , under culture conditions.	Masivuye Bulube*
14:45 - 15:00	Establishing a relatively simple and reliable small-scale production of the local marine calanoid copepod <i>Acartia sp.</i> as a potential live feed	Maphuti Ngoepe*
13:30 - 15:00	<b>Trade Forward Southern Africa Workshop</b>	<b>Chair: Adv Rob Moodie</b>
15:00 - 15:30	<b>Poster Viewing Tea &amp; Coffee Break</b>	
<b>PARALLEL SESSIONS - 15:30 to 17:00</b>		
15:30 - 17:00	<b>Genetics &amp; Physiology</b>	<b>Chair: Dr Clint Rhode</b>
15:30 - 15:45	De novo genome assembly and annotation of dusky kob, <i>Argyrosomus japonicus</i>	Tassin Jackson*
15:45 - 16:00	The relationship between genetic variation in neurobehavioral developmental genes, and growth traits in dusky kob ( <i>Argyrosomus japonicus</i> )	Joshua Sampson*
16:00 - 16:15	Exploring the physiological foundation for growth variability in dusky kob ( <i>Argyrosomus japonicus</i> ) larviculture	Aldi Nel
16:15 - 16:30	16S rDNA-based metagenomic analysis of the digestive tract associated microbiota of the collector sea urchin, <i>Tripneustes gratilla</i> : insight into the identification of candidate probiotics	Emmanuel Akanbi*
16:30 - 16:45	Genome comparison analysis to reveals selection signatures associated with production traits (growth and diseases) in Haliotids species	Thendo Tshilate*
15:30 - 17:00	<b>Environment &amp; Food Safety</b>	<b>Chair: Dr Sune Henning</b>
15:30 - 15:45	Assessment of the impact of aquaculture on the eutrophication status of Saldanha Bay based on an oxygen debt indicator	Grant Pitcher
15:45 - 16:00	Production of cash-crops and fish while treating brewery effluent in constructed wetlands	Nyiko Mabasa
16:00 - 16:15	Mineral content of marine organisms to develop nutrition-sensitive approaches to marine aquaculture in South Africa	Maretha Opperman

16:15 - 16:30	The influence of aeration, crops and earthworms on constructed wetlands	Lia Cesler
16:30 - 16:45	Geothermal energy: an alternative heating solution for warm-water aquaculture in South Africa	Samantha Joao*
16:45 - 17:00	Analysis of cage aquaculture in lacustrine systems. A case for lake Victoria, Kenya	Victor Okong'o
<b>15:30 - 17:00</b>	<b>Trade Forward Southern Africa Workshop</b>	<b>Chair: Adv Rob Moodie</b>

<b>19:00</b>	<b>Conference Banquet</b>	<b>Dress: Smart Casual</b>
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## THURSDAY, 14<sup>th</sup> JULY 2022

10:00 - 13:00	<b>Aquaculture Investment Seminar (Free entry)</b>	Mr Neil De Lange (CEO of PAF)
9:00 - 16:00	<b>LIMAQUA Multi-Actor Workshop (by invitation only)</b> Delegates are free to co-ordinate other meetings, workshops etc	Dr Maria Darias & Dr Brett Macey

## FRIDAY, 15<sup>th</sup> JULY 2022

### WORKSHOPS (Pay to attend)

08:00 - 17:00	AQUAPONICS WORKSHOP	<a href="#">Download brochures here</a>
08:00 - 17:00	ABALONE WORKSHOP	
08:00 - 17:00	TILAPIA WORKSHOP	