

# Programme

## SUNDAY 26 June 2016

15:00	<b>Registration</b>
19:00	<b>Dinner</b>

## MONDAY 27 June 2016

	<b>MAIN HALL: Session 1 (Chair: Nico Smit)</b>	
08:30	<b>Welcome by SASAQS President(NicoSmit)</b>	
08:45	<b>Welcome by Water Research Commission representative</b>	
09:15	<b>[1] Jackie King:</b> Sustainable development, the ecosystem approach and the mystery of ten percent	
09:30	<b>[2] Gerhard Cilliers:</b> Implementation of the national estuarine monitoring programme in South Africa: Case studies on the Berg and Breede Estuaries	
09:45	<b>[3] Christa Thirion:</b> The Macroinvertebrate Response Assessment Index (MIRAI) version 2	
10:00	<b>[4] Guy Bate:</b> Water quality in northern Maputaland	
10:15	<b>[5] Siddharthan Venkatachalam:</b> Molecular analysis of cyanobacterial diversity in Northern Maputoland: Assessing the potential for the production of harmful cyanotoxins	
10:30	<b>TEA/COFFEE: Poster viewing (presenters of posters P1 – P9 to be in attendance at their posters)</b>	
	<b>MAIN HALL: Session 2 - Ecotoxicology (Chair: Richard Greenfield)</b>	<b>BREAK-AWAY HALL: Session 3 - Ramsar Wetland Ecology (Chair: Wynand Malherbe)</b>
11:00	<b>[6] Mbali Dlamini:</b> Assessment of the effects of the White River Town waste water treatment works on the aquatic freshwater system, White River, Mpumalanga	<b>[12] Wynand Malherbe:</b> The investigation of selected Ramsar wetlands biodiversity status and tourism value in support of the Ramsar Convention information requirements
11:15	<b>[7] Jeffrey Lebepe:</b> Bioaccumulation and human health risks upon consumption of <i>Oreochromis mossambicus</i> from the Olifants River system	<b>[13] Elizmarie Bester:</b> Diversity of aquatic macroinvertebrates in the Ntsikeni Nature Reserve
11:30	<b>[8] Nelson Odume:</b> Functional response of communities of the family Chironomidae to deteriorating ecosystems health in an effluent impacted river, Eastern Cape, South Africa	<b>[14] Kelly Dyamond:</b> Macroinvertebrate diversity within the Makuleke Wetlands in the Pafuri region of Kruger National Park
11:45	<b>[9] Paul Mensah:</b> Use of the indigenous freshwater shrimp <i>Caridina nilotica</i> as a standard test organism for ecotoxicological studies in South Africa	<b>[15] Anrich Kock:</b> Diatom diversity and water quality in the Makuleke Wetlands
12:00	<b>[10] Chris Curtis:</b> Hydrochemistry of headwater streams in the central Magaliesberg Biosphere Reserve	<b>[16] Jacques Beukes:</b> Health Assessment of fishes from coastal lakes on the east coast of South Africa

12:15	<b>[11] Aobakwe Lenkwe:</b> Is there a correlation between the colour of sample water and dissolved organic carbon (DOC) in mountainous catchments under contrasting land uses at the Cathedral Peak Research Site (CPRS), Drakensberg?	<b>[17] Meredith Fernandes:</b> Distribution of vegetation along a salinity gradient at the Kosi Estuarine Lake
12:30	<b>LUNCH: Poster viewing</b>	
	<b>MAIN HALL: Session 4 - Ecotoxicology (continued) (Chair: Stanley Liphadzi)</b>	<b>BREAK-AWAY HALL: Session 5 - Water and Ecosystem Science (Chair: Tally Palmer)</b>
13:30	<b>[18] Tarryn Botha:</b> Comparative aquatic toxicity of gold nanoparticles and ionic gold using a species sensitivity distribution approach	<b>[25] Tally Palmer:</b> Transdisciplinary approaches to loosening intractable environmental water quality problems in South Africa
13:45	<b>[19] Victor Wepener:</b> Aquatic risk assessment of pesticides using a Weight of Evidence approach: The Crocodile River Irrigation system case study	<b>[26] Matthew Weaver:</b> Towards understanding the emergence, practice and learning of civil society organisations in response to water service delivery challenges in small post-Apartheid municipalities
14:00	<b>[20] Indrani Govender:</b> Ecological Risk Assessment of the Resource Directed Measures for the uMngeni Catchment	<b>[27] Margaret Wolff:</b> The tale of communities in the Tsitsa River catchment: A dam with the possibility of uplifting communities or a development that leaves communities fragmented and disappointed?
14:15	<b>[21] Tash Vogt:</b> Screening of aryl hydrocarbon ligands in sediment from three South African harbours	<b>[28] Notiswa Libala:</b> Hill slope seeps functionality as key ecological infrastructure - facilitating co-development of restoration and protection of hill slope seeps as part of live-stock practice in the upper Mzimvubu river catchment, Eastern Cape, South Africa
14:30	<b>[22] Ruan Gerber:</b> Stable Isotopes reveal long term human impacts in lowland rivers of the Kruger National Park	<b>[29] Tia Keighley:</b> Mining, agriculture and natural resources in the Upper Komati Catchment: contestations in a complex social-biophysical system
14:45	<b>[23] Gregg Jansen van Rensburg:</b> Biomarker responses in <i>Caridina nilotica</i> from the Lower Phongolo River Floodplain	<b>[30] Pindiwe Ntloko:</b> The development of macroinvertebrate based novel approaches for evaluating and predicting functional and structural ecological effects of settled and suspended solids in selected South African rivers
15:00	<b>[24] Cole Grainger:</b> The development and application of periphyton indicators of flow and nutrient alterations for the management of water resources in South Africa	<b>[31] Ntombekhaya Mgaba:</b> Impact of agriculture activities on salinity of the Kat River
15:15	<b>TEA/COFFEE: Poster viewing (presenters of posters P1 – P9 to be in attendance at their posters)</b>	

**TUESDAY 28 June 2016**

	<b>MAIN HALL: Session 6 (Chair: Wynand Vlok)</b>	
08:15	<b>Keynote [A]: Johan HJ van Vuren:</b> Ecotoxicology in conservation areas	
09:00	<b>[32] Lizaan de Necker:</b> An ecological assessment of selected ephemeral pans located on the Phongolo River floodplain	
09:15	<b>[33] Trevor Dube:</b> Macroinvertebrate species and functional diversity in temporary pans along a gradient of lateral connectivity with the Phongolo River	
09:30	<b>[34] Nico Wolmarans:</b> Organochlorine pesticide bioaccumulation and biomarker responses of two amphibian species from the KNP and Phongolo floodplain	
09:45	<b>[35] Likho Sikutshwa:</b> Platannas mixing it up: phylogeography of the African clawed frog, <i>Xenopus laevis</i>	
10:00	<b>[36] Edward Netherlands:</b> Northern KwaZulu-Natal, a hotspot for frogs and their blood parasites	
10:15	<b>[37] Nico Smit:</b> Aquatic parasitology in a changing world: biological consequences of climate change	
10:30	<b>TEA/COFFEE: Poster viewing (presenters of posters P10 – P18 to be in attendance at their posters)</b>	
	<b>MAIN HALL: Session 7 - Estuarine Ecology (Chair: Gordon O'Brien)</b>	<b>BREAK-AWAY HALL: Session 8 - WRC workshop (Chair: Bonani Madikizela)</b>
11:00	<b>[38] Alan Whitfield:</b> Ecoengineering successes and failures in estuaries – have we learnt any management lessons?	<b>Bonani Madikizela:</b> Welcome and workshop objectives
11:15	<b>[39] Janine Adams:</b> Persistence of mangroves along the east coast of South Africa	<b>Victor Wepener:</b> Ecotoxicology from landscape perspective-role of research
11:30	<b>[40] Daniel Lemley:</b> Linking catchment agriculture with eutrophication in two Eastern Cape estuaries	<b>Wietsche Roets:</b> Mining and wetland: “Method in the madness of Water use Authorisation” perspective from government
11:45	<b>[41] Lucienne Human:</b> The water quality status of selected micro inlets and estuaries along the eastern cape coast of South Africa	<b>Johan van der Waals:</b> Wetland delineation and conservation challenges in mining
12:00	<b>[42] Gwynneth Matcher:</b> Next generation sequencing approaches for analysing the response of bacterial communities to agricultural and urban impacts in temperate estuaries	<b>Phil Tanner:</b> Irrigating high value crops with poor quality mine water – a potential solution to a major mine closure issue, with significant side benefits
12:15	<b>[43] Mandla Magoro:</b> The impact of introduced largemouth bass <i>Micropterus salmoides</i> on indigenous estuary-associated fish in the lower Kowie River, South Africa	<b>TBC: Mining industry</b>
12:30	<b>LUNCH: Poster viewing</b>	<b>Arno de Klerk:</b> Environmental infrastructure and its significance

	<b>MAIN HALL: Session 9 – Invasive species in South Africa (Chair: Ruan Gerber)</b>	<b>Victor Munnik:</b> Integrating biodiversity and water quality into mining life cycle
13:30	<b>[44] Darragh Woodford:</b> Managing invasive fishes with socio-economic value - a wicked problem for aquatic conservation	Open Discussion and Concluding remarks
13:45	<b>[45] Ana Nunes:</b> The invasive Australian redclaw crayfish ( <i>Cherax quadricarinatus</i> ) in South Africa	
14:00	<b>[46] Phumza Ndaleni:</b> Dam driven invasions of an Eastern Cape River	
14:15	<b>[47] Lubabalo Mofu:</b> Life-history traits of <i>Glossogobius callidus</i> a highly successful coloniser of irrigation impoundments: using life-history traits in predicting future invaders	
	<b>MAIN HALL: Session 10 - Long-term monitoring of the Lowveld reaches of the Olifants River and its tributaries: The way forward - an open discussion (Chair: Sean Marr)</b>	
14:30	<b>[48] Thabo Mohlala:</b> Are contemporary monitoring methods able to detect expected losses of aquatic biodiversity? Insights from the analysis of 6 years of river health data from the Lower Olifants River	
14:45	<b>[49] Sean Marr:</b> Long-term monitoring of the Lowveld reaches of the Olifants River and its tributaries: A preliminary assessment of the first 5 years	
15:00	<b>[50] Anthony Swemmer:</b> Long-term monitoring of the Lowveld reaches of the Olifants River and its tributaries: The way forward - an open discussion	
15:15	<b>TEA/COFFEE: Poster viewing (presenters of posters P10 – P18 to be in attendance at their posters)</b>	

## WEDNESDAY 29 June 2016

	<b>MAIN HALL: Session 11 - Swimways (Chair: Wynand Malherbe)</b>	
08:15	<b>Keynote [B]: Herman Wannigen:</b> Swimways of the world: Optimizing the policy cycle to open-up rivers for migratory fish	
09:00	<b>[51] Gordon O'Brien:</b> Swimway programme for the use and protection of migratory fishes and their ecosystems	
09:15	<b>[52] Kerry Brink:</b> Swimways: a global initiative to simulate river connectivity and fish migration management	
09:30	<b>[53] Peter Schollema:</b> Unraveling the life stories of freshwater fish. What monitoring techniques can we use?	
09:45	<b>[54] Leon Barkhuizen:</b> A qualitative and quantitative analysis of historic commercial fisheries in the Free State Province in South Africa	
10:00	<b>[55] Wesley Evans:</b> When in Doubt or Drought: What to do for the Threatened Fish Populations of KZN?	
10:15	<b>[56] Mahomed Desai:</b> Environmental water requirements to maintain the wellbeing key social and ecological endpoints in the Dinder River, Blue Nile Basin	
10:30	<b>TEA/COFFEE: Poster viewing</b>	
	<b>MAIN HALL: Session 12 - Aquatic Invertebrates (Chair: Victor Wepener)</b>	
11:00	<b>[57] Ryan Wasserman:</b> Increased male copepod vulnerability to predation in arid ephemeral aquatic environments	



11:15	<b>[58] Skhumbuzo Kubheka:</b> Developing and testing the congruency of selected biological indicators and an existing tool designed to assess wetland health in agricultural settings in the KZN Midlands
11:30	<b>[59] Tebogo Molepo:</b> A preliminary assessment of the invertebrate communities in temporary wetlands in Mankweng, Limpopo, South Africa
11:45	<b>[60] Peral Mnisi:</b> Study of the free-living copepods in Turfloop dam, Limpopo Province, South Africa
12:00	<b>[61] Tatenda Dalu:</b> Understanding changes in ephemeral pond trophic structure in relation to hydroperiod
12:15	<b>[62] Rion Lerm:</b> Pilot study investigating scope for the long-term monitoring of dragonflies (Odonata) in the Ukhahlamba Drakensberg World Heritage Site, Cathedral Peak, South Africa
12:30	<b>LUNCH: Poster viewing</b>
	<b>MAIN HALL: Session 13 - Aquatic Invertebrates (Chair: Arno de Klerk)</b>
13:30	<b>[63] Olalekan Agboola:</b> Factors affecting macroinvertebrate communities in Kwazulu-Natal lowland rivers – a review
13:45	<b>[64] Londiwe Khuzwayo:</b> Do seasonal changes in pH affect the distribution of Ephemeroptera (Mayfly) species in the Waterberg headwater streams?
14:00	<b>[65] Madonna Vezi:</b> Response of invertebrates to changes in water quality and flows in KwaZulu-Natal river dominated estuaries
14:15	<b>[66] Gavin Snow:</b> Macroinvertebrate community response to physico-chemical conditions in the Olifants River (East) catchment
14:30	<b>[67] Lucky Mnisi:</b> Towards the development of an aquatic toxicity index for macroinvertebrates
15:00	<b>[68] Terence Bellingan:</b> The effect of consecutive rotenone treatments on the invertebrate fauna of the Rondegat River, Western Cape, South Africa
15:15	<b>TEA/COFFEE:</b>
15:45	<b>SASAqS Annual General Meeting</b>
19:00	<b>Gala Dinner</b>

## SASAqS Posters

<b>RECEPTION HALL: Poster Session</b>	
<b>[P1] Nokubonga Mbandzi</b>	The feeding ecology of <i>Gilchristella aestuaria</i> and <i>Atherina breviceps</i> , with emphasis on potential competition in the Kariega Estuary, South Africa
<b>[P2] Bianca Hannweg</b>	A comparison of sampling techniques for headwater stream fish surveys
<b>[P3] Lesley Bloy</b>	An assessment of the driving factors of non-native fish invasion fronts
<b>[P4] Ryan Wasserman</b>	Using functional responses to assess predator hatching phenology implications for pioneering prey in arid temporary pools
<b>[P5] Millicent Kekana</b>	The biomarker response of AChE inhibition activity of fish caught from the Groot Letaba River
<b>[P6] Antoinette Jooste</b>	Impact of water and sediment quality on metal bioaccumulation and pesticide exposure of two fish species from the Steelpoort River, Limpopo province
<b>[P7] Abraham Addo-Bediako</b>	Evaluation of the health of four fish species from two impoundments of the Olifants River, Limpopo River System, South Africa, using the Health Assessment Index protocol
<b>[P8] Tatenda Dalu</b>	New species of <i>Lovenula raynerae</i> (Copepoda) from ephemeral freshwater systems
<b>[P9] Modibe Raphahlelo</b>	Diversity of monogenean parasites of <i>Barbus</i> spp. as biological indicators along the Limpopo and Olifants River systems
<b>[P10] Kenwinn Wiener</b>	Quantifying the impacts of invasive N <sub>2</sub> -fixing <i>Acacia mearnsii</i> on suspended sediment loads and nutrient enrichment status in mountain streams of the Cape Floristic Region, South Africa
<b>[P11] Zaid Railoun</b>	Nitrogen inputs from invasive <i>Acacia mearnsii</i> litter into fynbos streams
<b>[P12] Nelson Odume</b>	Water resource management and policy - exploring the role of environmental ethics in sustainable ecosystem management in South Africa
<b>[P13] Jody-Lee Reizenberg</b>	A HOT TOPIC: The thermal preferenda and tolerances of indigenous freshwater fishes in the Cape Floristic Region
<b>[P14] Hilde Kemp</b>	Macroinvertebrate biodiversity, biotope associations and selected environmental variables in the Marico River, South Africa
<b>[P15] Anja Greyling</b>	Metal bioaccumulation in selected intertidal filter feeders from the east coast of South Africa
<b>[P16] Hannes Erasmus</b>	The aquatic macroinvertebrate diversity and physical parameters in the Loop Spruit and Mooi River, North-West Province
<b>[P17] Uanè Pretorius</b>	The aquatic macroinvertebrate diversity and selected abiotic factors of the Mooi River catchment area, North-West Province, South Africa
<b>[P18] Namhla Mbona</b>	An overview of the Freshwater Component of the third National Biodiversity Assessment (NBA2018)



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