

# SASAQS 2013 CONFERENCE

## PROGRAMME

### SOUTHERN AFRICAN SOCIETY OF AQUATIC SCIENTISTS 30 June – 4 July 2013, Arniston, Western Cape

#### SUNDAY 31 JUNE 2013

16:00	Registration
18:00	Dinner
19:00	Social Ice breaker

#### MONDAY 1 JULY 2013

Time	Session title	Presenter
	<b>VENUE 1</b>	
	<b>Mediterranean Ecosystems</b>	
	<b>Chair: Helen Dallas</b>	
08:00	Setting the scene: aquatic ecosystems of the Cape Mediterranean Region (Keynote)	Jenny Day
08:40	Spatial character of undisturbed Fynbos Riparian Vegetation longitudinally down a Western Cape river ecosystem	Mia Otto
09:00	What drives periphyton communities in south Western Cape Rivers? A shift from top – down to bottom up control.	Justine Ewart-Smith
09:20	Impact of non-native rainbow trout on headwater stream communities in the Cape Floristic Region, South Africa	Jeremy Shelton
09:40	Adaptive responses of Cape Floristic Region endemic freshwater fish species to hydrological, temperature and geomorphological regimes: the Mediterranean context	Bruce Paxton
10:00	Ecological status assessment in Mediterranean rivers: complexities and challenges in developing tools for assessing ecological status and defining reference conditions	Helen Dallas



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<b>10:20</b>	<b>Tea</b>	
	<b>Beyond borders</b>	
	<b>Chair: Justine Ewart-Smith</b>	
10:40	Pushing geographical and technical boundaries: our evolution as aquatic scientists (Keynote)	Jackie King
11:20	The response of stationary trawl (Dai) fishery yields in the Tonle Sap-Great Lake system of the Mekong River, Cambodia to inter-annual variations in the flood pulse	Bruce Paxton
11:40	Floodplain fisheries of Liuwa Plain National Park, Western Province, Zambia	Richard Peel
12:00	Development of a biomonitoring protocol and its application in a preliminary assessment of the ecological status of Zambian rivers	Chris Gibbins
12:20	Zooplankton composition and succession in the Okavango Delta and its associated basins	Deidré West
<b>12:40</b>	<b>Lunch</b>	
	<b>Wetland Ecology</b>	
	<b>Chair: Heather Malan</b>	
14:00	Can the ecosystem services of the Papekuils social-ecological system be sustained? (Keynote)	Donovan Kotze & Samantha Adey
14:40	Variation in physico-chemical characteristics of pans in the North West, Free State and Mpumalanga	Wynand Malherbe
15:00	The development of a Framework for Wetland Assessment and a Decision Support Matrix for the assessment of wetland condition in South Africa	Dean Ollis
<b>15:20</b>	<b>Tea</b>	
	<b>Wetland Ecology</b>	
	<b>Chair: Heather Malan</b>	
15:40	Identification and delineation of wetlands in the Nelson Mandela Bay (NMB) area: a local refinement of a national initiative	Denise Schael

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SCIENTISTS  
CONFERENCE 2013  
30 JUNE – 4 JULY 2013,  
ARNISTON, WESTERN  
CAPE

### MPA biodiversity

#### Chair: Alexis Olds

Depth related changes in the benthic invertebrate community of warm-temperate reefs in the Tsitsikamma Marine Protected Area

Elodie Heyns

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16:00	Role of landscape positioning in the distribution, structure and function of temporary wetlands in Nelson Mandela Bay Metropolitan (NMBM)	Brigitte Melly	Prosobranchia and Protozoans	Liesl van As
16:20	Macroinvertebrates as unreliable indicators of human disturbance in temporary depression wetlands of the south-western Cape, South Africa	Mathew Bird	A Microscopic Web of Intertidal Peritrich Ciliates	Linda Basson
16:40	-	-	Intertidal Symbiont Project At De Hoop Nature Reserve	Jo van As
<b>18:00</b>	<b>Dinner</b>			
<b>19:00</b>	<b>Evening: WRC Workshop Sustainable Utilization Of Ecosystem Goods And Services</b>			

### TUESDAY 2 JULY 2013

	<b>Management And Monitoring</b>		<b>Freshwater Ecosystems</b>	
	<b>Chair: Pierre de Villiers</b>		<b>Chair: Olaf Weyl</b>	
08:00	From research to practice in adaptive water resource management (Keynote)	Chris Dickens	Freshwater Ecosystems and alien invasions	
08:40	Regional Scale Risk Assessment methodologies incorporating Bayesian networks in the management of water resources in South Africa.	Gordon O'Brien	The occurrence, distribution and population structure of freshwater fishes in Free State dams and implications for inland fisheries	Leon Barkhuizen
09:00	Water availability and use under uncertain future climate and development scenarios in the Amatole System	Sukhmani Mantel	Development Of A Fish Kill Investigation Protocol For South Africa	Byron Grant
09:20	Water quality implications of uncertain future climate and development in the Amatole System, Eastern Cape, South Africa	Andrew Slaughter	Post-capture dispersal and mortality of tournament captured largemouth bass <i>Micropterus salmoides</i> in a South African impoundment	Geraldine Taylor
09:40	Case Study – Lourens River Flood Alleviation Project: the "Softer Solution"	Natalie Newman	Fish assemblages as an ecological indicator of low land rivers in sub-tropical Africa.	Hannes Venter
10:00	Development of Water Quality Index for Cape Town's aquatic ecosystems	Candice Haskins	Can we detect impacts of trout in small mountain streams by examining invertebrate communities using a multivariate approach?	Terrence Bellingan
<b>10:20</b>	<b>Tea</b>			



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	Chair: Candice Haskins		Chair: Martine Jordaan	
10:40	Reporting and monitoring of enforcement activities on urban river reaches	Sam Braid	The influence of nutrient enrichment on the macro-invertebrate fauna of Loole Creek in the Limpopo Province	AlvarKoning
11:00	Does science add value to water management processes?	Nadene Slabbert	Double blow: First record of an alien crayfish, <i>Cherax quadricarinatus</i> von Martens, infested with an alien temnocephalan, <i>Diceratocephala boschmai</i> Bear, in South African waters	Nico Smit
11:20	Stakeholder mapping and the identification of benefits and services derived from Wilderness and Swartvlei lake systems	Aneri Vlok	Managing alien fishes in South Africa	Olaf Weyl
11:40	The use and abuse of SASS: why detailed taxonomic work is vital for conservation: a case study using Teloganodidae (Ephemeroptera)	Lyndall Pereira-da-Conceicoa	Inter-basin water transfer schemes and the threat of fish invasions: a water management conundrum	DJ Woodford
12:00	Progress with the SAEON Long term Water quality monitoring of the Lower Olifants River.	Thabo Mohlala	Fish health and suitability for human consumption study of selected fish species in the Northe West Province	GM Wagenaar
12:20	Adult dragonflies as indicators of river health: A Case Study on the Crocodile-Incomati River, from South Africa to Mozambique.	Gerhard Diedericks	-	-
12:40	The Use Of Diatoms And Related Biotic Indices To Quantify The Effect Of Vineyard Pesticides And Efficacy Of Mitigation Measures	Steven Osmond	-	-
<b>13:00</b>	<b>Lunch</b>			
14:00	The influences of hydrological phases on the community composition of Simuliidae and Baetidae and the implications on biomonitoring in the Seekoei River	Ina Ferreira	<b>Wetlands Workshop (Dean Ollis)</b>	
14:20	The Cape Clawless otter: a useful indicator for determining environmental water requirements in ephemeral rivers	Esté Prinsloo		
<b>14:40</b>	<b>Poster Session</b>			
<b>15:00</b>				
<b>15:20</b>	<b>Tea</b>			

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15:40	<b>SASAQS AGM</b>		
18:00	<b>Dinner</b>		
19:00	<b>Student meeting</b>		
<b>WEDNESDAY 3 JULY 2013</b>			
	<b>Estuarine Ecology</b>		
	<b>Chair: Janine Adams</b>		
08:00	Nutrient Characterisation of River Inflow into the Estuaries of the Gouritz Water Management Area	Daniel Lemley	
08:20	Responses of microalgae in the Great Brak estuary to changes in river flow	Gavin Snow	
08:40	The role of submerged macrophytes and macroalgae in nutrient cycling in the Great Brak Estuary South Africa: a budget approach	Lucienne Human	
09:00	Present state and future fate of mangroves in South Africa	Janine Adams	
09:20	In situ growth rate of <i>Solen cylindraceus</i> (Mollusca: Euheterodonta: Solenidae) in the St Lucia estuarine lake, South Africa	Holly Nel	
09:40	Role of sand prawns as ecosystem engineers in temporarily open/closed southern African estuaries	PW Froneman	
10:00	Mediating interactions among lower trophic levels: community stability, induced by early life-history fish, in the estuarine plankton	Ryan Wasserman	
10:20	<b>Tea</b>		
	<b>Estuarine Ecology</b>		<b>Ecotones</b>
	<b>Chair: Janine Adams</b>		<b>Chair: Jeanne Gouws</b>
10:40	Preliminary Results From Selected Estuaries Monitored As Part Of The National Estuarine Monitoring Programme (Nesmp) In South Africa.	Gerhard Cilliers	The role of amphibians in linking terrestrial and aquatic habitats in the Kowie catchment
			Likho Sikutshwa

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11:00	Development of an estuary management plan: Lessons learned in the CAPE estuaries programme	Pierre de Villiers	Reciprocal aquatic/terrestrial trophic subsidies through aquatic birds in a South African hydrological catchment: Project outline and preliminary findings.	Jeff Hean
	<b>Ecotoxicology and pollution</b>		<b>Ecotones</b>	
	<b>Chair: Victor Wepener</b>		<b>Chair: Jeanne Gouws</b>	
11:20	Field Validation of Metal Contamination at the Richards Bay Harbour	Refiloe Mofokeng	The importance of ecotones for the classification of biomonitoring sites: A case study from the Marico River	Hermien Roux
11:40	Imposex in Marine Gastropods from the Atlantic coast of South Africa	N Roos	Links between lateral vegetation zones and flow	Karl Reinecke
12:00	Lysosomal membrane stability in the mussel <i>Mytilus galloprovincialis</i> , as a biomarker of Tributyltin exposure	Reinette Snyman	Habitat Connectivity between Salt Marshes and Terrestrial Vegetation: Indicators of Change	Dimitri Veldkornet
12:20	The risk of eating fish from the Olifants River (Limpopo)	Sean Marr	A method for determining appropriate buffer zones for wetlands, rivers and estuaries	Ian Bredin
12:40	The health status of the African longfin eel, <i>Anguilla mossambica</i> , from three Eastern Cape Impoundments, South Africa.	Kyle Mc Hugh		
<b>13:00</b>	<b>Lunch</b>			
14:00	Frogs and acid rain – is there a threat in the Kruger National Park?	Wynand Vlok	<b>WRC Workshop: Ecosystems and Global Change</b>	
14:20	Aquatic ecosystem sensitivity to the effects of sulphur and nitrogen deposition in South Africa	Chris Curtis		
14:40	The hatching success of branchiopod crustaceans from selected South African pans and the impact that Acid Mine Drainage has on this success	Aidan Henri		
15:00	The impact of Acid Mine Drainage from Coal Mining Activities on the riverine invertebrates of the Mpumalanga Highveld: A case study on the Boesmanspruit.	Christa Thirion		
<b>15:20</b>	<b>Tea</b>			

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15:40	The challenges of maintaining environmental realism in aquatic nano-ecotoxicology: a bit of the same old or a new science?	Victor Wepener			
16:00	<b>Workshop: “How can ecotoxicology contribute to water resources management in South Africa?”</b>				
19:30	<b>Gala dinner</b>				
<b>THURSDAY 4 JULY 2013</b>					
09:00	<b>Optional workshop and fieldtrips</b>				
08:00	<b>NR Training Workshop:</b>			<b>A method for determining buffer zones for wetlands, rivers and estuaries (WRC Project:K5/2200)</b>	<b>Ian Bredin &amp; Doug Macfarlane</b>
09:30	Leg 1 Depart From: Die Herberg To: Heuningnes Estuary Transport & Guide: R 120.00 pp	Excluding Refreshments  Lunch: R 75.00 pp			
09:30	Leg 2 Depart From: Die Herberg To: ABI Wetlands Transport & Guide: R 120.00 pp	Excluding Refreshments  Lunch: R 75.00 pp			
09:30	Leg 3 Depart From: Die Herberg To: Historic Features Agulhas Transport & Guide: R 120.00 pp	Excluding Refreshments  Lunch: R 75.00 pp			
12:00	<b>NR Training Workshop:</b>				

Please note: All Field Excursion return to Die Herberg Hotel at 15:00

### CONFERENCE SECRETARIAT



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