

# 4<sup>th</sup> YWP-ZA Biennial, & 1<sup>st</sup> African IWA YWP Conference



## Conference Programme

16 – 18 NOVEMBER 2015

PRETORIA, SOUTH AFRICA

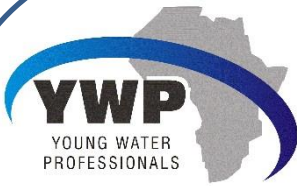


4<sup>th</sup> SOUTHERN AFRICAN REGIONAL BIENNIAL YWP CONFERENCE  
 &  
 1<sup>st</sup> AFRICAN IWA YWP CONFERENCE

CONFERENCE PROGRAMME: 3-day conference: 16<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup> November 2015

Council for Scientific and Industrial Research, International Convention Centre (CSIR ICC)

Our Sponsors



Early Registration: Sunday, 15<sup>th</sup> November

14:00 - 18:30	REGISTRATION (CSIR ICC Reception)
17:00 - 18:00	Networking Exercises & Welcome Function (CSIR ICC Foyer)

## DAY 1: Monday, 16<sup>th</sup> November

07:00 - 08:30	REGISTRATION and arrival refreshments (CSIR ICC Foyer)		
08:00 - 08:30	<i>Media Briefing (Amethyst Room)</i>		
08:00 - 08:15	<i>Briefing Session: For authors and chairmen of the day (All presentation venues)</i>		
Plenary	<b>SESSION 1: OPENING PLENARY: Stop Talking. Start Doing!</b> Chair: Dr Jo Burgess (WISA President; Previous YWP-ZA Chairperson and YWP-ZA Conference Chair (2010, 2011)) Venue: CSIR-Monash University Auditorium (Diamond Auditorium)		
08:30 - 08:45	<b>WELCOME:</b> Mr Stuart Woolley (YWP-ZA, Conference Chair), Mrs Shanna Nienaber (YWP-ZA, Chair)		
08:45 - 08:55	<b>The International Water Association:</b> Ms Sarah Tibatemwa (IWA, Director of IWA Africa)		
08:55 - 09:05	<b>The Water Institute of Southern Africa:</b> Mr Lester Goldman (WISA, CEO)		
09:05 - 09:50	<b>OPENING PLENARY ADDRESS:</b> Mr Dhesigen Naidoo (Water Research Commission, CEO)		
09:50 - 10:20	<b>PANEL DISCUSSION:</b> Mr Dhesigen Naidoo (Water Research Commission, CEO), Ms Sarah Tibatemwa (IWA, Director of IWA Africa), Mr Lester Goldman (WISA, CEO), Mr Ashwin Seetal (IWA-SA, Vice-chairperson)		
10:20 - 10:50	 <p>DPI Plastics Sponsored Tea Break (CSIR ICC Foyer) Posters 1-25 – Exhibition Area</p>		
Parallel sessions	CSIR-Monash University Auditorium (Diamond Auditorium)  	Mine Water Division Auditorium (Ruby Auditorium) 	Energy and Water Sector Education and Training Authority (EWSETA) Room (Amethyst Room) 
	<b>Session 2: Water Treatment</b> Chair: Ms Nosipive Ngqwala	<b>Session 3: Society</b> Chair: Dr Inga Jacobs-Mata	<b>Session 4: EWSETA Learning Hub Workshop: Process Controllers &amp; Lab Technicians</b> Chair: Ms Mapula Mametja
10:50 - 11:10	Impact of coagulants on the long term performance of rapid gravity filters for potable water treatment  Mr Lindelani Sibiyi, Umgeni Water, South Africa	A city that works for you? Identifying perceptions of stakeholders in a sanitation project  Miss Shamiso Kumbirai, University of Cape Town, South Africa	This workshop session is about exploring the work and career space of process controllers and lab technicians in the water sector.  Join us to learning more about the insights of specially selected junior process controllers, laboratory technicians and other practitioners.  Find out more about the career paths and options in the process controller and lab technician domain.  Unpack the challenges and opportunities facing young process controllers and lab technicians.  Explore the role that major institutions such as ERWAT and Rand Water play in supporting the careers of lab technicians and process controllers.  Please see detailed programme below for full details.
11:10 - 11:30	Preparation of sorbents from mango seed shells and their potential in removal of lead, cadmium and copper from aqueous solutions  Mr Malvin Moyo, Vaal University of Technology, South Africa	"Not so VIP"- Using public participation to ensure the provision of sustainable VIP latrines  Ms Lulama Ngobeni, iCOMMS Research Team (University of Cape Town), South Africa	
11:30 - 11:50	A continuous ion exchange process as pre-treatment to reverse osmosis: simultaneous removal of suspended solids and scaling elements  Ms Carien van der Walt, Multotec Process Equipment, South Africa	The role of trust and reciprocity in inter-organisational relationships for water quality governance  Mr Machaya Chomba, Water Research Node (Monash South Africa), South Africa	
11:50 - 12:10	A model for determining the feasibility of brackish water desalination using reverse osmosis to supply irrigation water to farmers  Mr Cornelius Coomans, Chris Swartz Water Utilization Engineers, South Africa	Institutions and human mobility in an African river fishery: A case study of Shimungalu Fishing Camp in the Kafue Flats of Zambia  Ms Sililo Agness Musutu, (Monash South Africa), South Africa	
12:10 - 12:30	Pilot assay of air binding on rapid gravity filters  Mr Lindelani Sibiyi, Umgeni Water, South Africa	<b>Open Discussion: Unpacking society in the context of the water sector:</b> A conversation about bringing society into the centre of how we think about water	
12:30 - 13:30	Mine Water Division Sponsored Lunch (CSIR ICC Foyer) 		

Parallel sessions	<b>Session 5: Municipal Water</b> Chair: Dr Taurai Mutanda	<b>Session 6: Governance (Cooperation)</b> Chair: Mr Mahlomola Rangoako Martin	<b>Session 7: EWSETA Learning Hub Workshop: Process Controllers &amp; Lab Technicians</b> Chair: Mr Nico van Blerk
13:30 - 13:50	Characterization of organics for anaerobic digestion by modelling augmented biochemical methane potential test results  Ms Rudi Botha, Water Research Group (University of Cape Town), South Africa	Co-operative water quality management in the Crocodile River Catchment, focusing on the sugar industry  Ms Asiphe Sahula, Institute for Water Research (Rhodes University), South Africa	Refer to description above and see detailed programme below for full details.
13:50 - 14:10	Effect of increasing biomass of selected protozoan isolates on biodegradation of crude oil (petroleum) spill by-products polluted wastewater  Mr Leonard Kachieng'a, Tshwane University of Technology, South Africa	Power and hydro-hegemony: Understanding the dynamics of transboundary water interactions in post-apartheid Southern Africa  Ms Thobekile Zikhali, Human Sciences Research Council, South Africa	
14:10 - 14:30	Physical and chemical impacts on the integrity of <i>Ceratium</i> cells: A scanning electron microscopy investigation after conventional sedimentation  Mr Hendrik Ewerts, Rand Water, South Africa	<u>Water, sanitation and hygiene in resilient cities and urban areas</u> adapting to extreme waters: Case study eThekweni  Mr Julian Arran, Institute for Water and Wastewater Technology (Durban University of Technology), South Africa	
14:30 - 14:50	Seasonal impact on nitrification potential of activated sludge treating municipal wastewater  Mr Oluyemi Awolusi, Institute for Water and Wastewater Technology (Durban University of Technology), South Africa	The institutional arrangements for integrated water resources management: The Pongola – Umzimkulu catchment management agency in South Africa  Mr Quinex Chiluwe, Aecom South Africa (Pty) Ltd, South Africa	
<b>14:50 - 15:20</b>	<b>Tea Break (CSIR ICC Foyer)</b> <b>Posters 25-50 – Exhibition Area</b>		
Parallel sessions	<b>Session 8: Municipal Wastewater Treatment</b> Chair: Mr Geoff du Toit	<b>Session 9: Sanitation &amp; Hygiene</b> Chair: Mr Sivuyile Pezulu	<b>Session 10: EWSETA Learning Hub Workshop: Process Controllers &amp; Lab Technicians</b> Chair: Mr Nico van Blerk
15:20 - 15:40	A plant-wide steady-state design and analysis program for municipal wastewater treatment plants  Mr William Wu, Water Research Group (University of Cape Town), South Africa	<b>Guest Speaker:</b> International cooperative strategies and support to redress the sanitation landscape in Africa.  Mr Stuart Woolley, Water Research Commission, South Africa	Refer to description above and see detailed programme below for full details.
15:40 - 16:00	COD fractionation for process design and modelling  Mr Sihle Ntaka, Umgeni Water, South Africa	Overview of a medium infrared dryer process, 'LaDePa', for faecal sludge drying and pasteurisation  Dr Santiago Septien, Pollution Research Group (University of KwaZulu-Natal), South Africa	
16:00 - 16:20	Hourly variation pattern of effluent cod of anaerobic baffled reactors  Mr Bjoern Pietruschka, Bremen Overseas Research and Development Association (BORDA), Germany	Characterisation of pit latrine sludge from informal settlements in Mzuzu city in Malawi  Mr Khumbo Kalulu, University of Malawi, Malawi	
16:20 - 16:40	The performance of decentralised wastewater treatment systems at eThekweni municipality  Mr Mxolisi Cele, eThekweni Water and Sanitation, South Africa	An overview of faecal sludge management in Africa: Case studies from South Africa and the SRFA project  Dr Sudhir Pillay, Water Research Commission, South Africa	
16:40 - 17:00	Conference Photograph (Outside CSIR ICC Main Entrance, on stairs)		
<b>17:30 - 21:30</b>	<b>Africa Games &amp; Light Dinner (CSIR Sports Arena)</b>		

## DAY 2: Tuesday, 17<sup>th</sup> November

07:00 - 08:30	Arrival refreshments (CSIR ICC Foyer)		
08:00 - 08:15	<i>Briefing Session: for authors and chairmen of the day (All presentation venues)</i>		
Plenary	<b>SESSION 11: TRANSDISCIPLINARY PLENARY: New paradigms for action and problem solving in the water sector:</b> Exploring transdisciplinarity  Chair: Mrs Shanna Nienaber (YWP-ZA, Chair) Venue: CSIR-Monash University Auditorium (Diamond Auditorium)		
08:30 - 09:00	<b>TRANSDISCIPLINARY PLENARY ADDRESS:</b> Prof Coleen Vogel (Global Change and Sustainability Research Institute, University of the Witwatersrand)		
09:00 - 9:50	<b>TRANSDISCIPLINARY PANEL DISCUSSION:</b> Prof Coleen Vogel (Global Change and Sustainability Research Institute, University of the Witwatersrand), Dr Oghenekaro Nelson Odume (UCEWQ-Institute for Water Research), Mrs Nikki Funke (CSIR, Senior Researcher), Dr Inga Jacobs-Mata (Executive Manager, Water Research Commission)		
09:50 - 10:20	<b>Tea (CSIR ICC Foyer)</b> <b>Posters 50-75 on exhibition</b>		
Parallel sessions	<b>CSIR-Monash South Africa Auditorium</b> (Diamond Auditorium)   	<b>Mine Water Division Auditorium</b> (Ruby Auditorium)  	<b>Energy and Water Sector Education and Training Authority (EWSETA) Room</b> (Amethyst Room)  
	<b>Session 12: Water Security Special Session</b> Chair: A/Prof Bimo Nkhata	<b>Session 13: Emerging Wastewater Treatment Techniques</b> Chair: Mr Geoff du Toit	<b>Session 14: EWSETA Learning Hub Workshop: Africa Leadership Skills Development</b> Chair: Ms Nora Hanke
10:20 - 10:40	Water Security is internationally increasingly recognized as a new paradigm for water governance. Both, water security and water governance are academic buzzwords that describe different 'things' for different people.  Water Security is sometimes referred to as a means, as an approach, or as the goal of water governance - or even as a theoretical framework. Building on results of scientific research of CSIR and Monash South Africa's Water Research Node, this multidisciplinary special session explores what Water Security means in different contexts of natural resource management.  This session offers an evidence-based, but also practically oriented discussion on what Water Security means in a developing country context and what local level challenges of participation and community-based natural resources management mean for achieving Water Security.  Please see detailed programme below for full details.	Evaluating a super saturated aeration system for treatment of highly concentrated blackwater  Mr Makgatha C Mpho, Steve Tshwete Local Municipality, South Africa	The Skills Hub is an experiential learning programme, both exciting and relevant to participants from the academic and technical backgrounds, who are starting off in their career.  This session aims to increasing the employability of young professionals in the water sector through a practically oriented experiential learning programme. The idea is to address some of the most urgent difficulties faced by young people entering the sector and create an employment value chain - what jobs are out there, how to get the job and how to excel in the job.  This workshop will equip the attendees with some basic skills and concepts to help you work towards excelling in your early careers.  Please see detailed programme below for full details.
10:40 - 11:00		Sustainable wastewater treatment using aerobic granular sludge - The innovative Nereda® technology  Mr Struan Robertson, Royal HaskoningDHV, South Africa	
11:00 - 11:20		Biogeochemical and kinetics characterization of sulfate reducing communities enriched from mine drainages  Mr Karabelo Moloantoa, University of the Free State, South Africa	
11:20 - 11:40		Ability of indigenous moderate halophilic bacteria in removing zinc and titanium oxide nanoparticles in wastewater  Miss Vanessa Weber, Tshwane University of Technology, South Africa	
11:40 - 12:00		A technological and economic exploration of phosphate recovery from centralised sewage treatment in a transitioning economy context  Ms Melissa Sikosana, University of Cape Town, South Africa	
12:00 - 13:00	<b>Lunch (CSIR ICC Foyer)</b>		
Parallel sessions	<b>Session 15: Water Management</b> Chair: Ms Leana Esterhuizen	<b>Session 16: Hydrology</b> Chair: Mr Ashton Maherry	<b>Session 17: EWSETA Learning Hub Workshop: Entrepreneurship 1</b> Chair: Ms Chantal Ramcharan-Kotze
13:00 - 13:20	The status of NRW reduction in the city of Tshwane  Mr Hannes Reyneke, WRP Engineers, South Africa	Pyrohydrology in African savannas: The effect of veld fires on soil hydrology  Ms Tercia Strydom, South Africa National Parks, South Africa	The objective of this session is to introduce entrepreneurship as a concept and option to take further innovations in the water and natural resource management fields.

13:20 - 13:40	Modelling the pressure – leakage response of a water distribution system using the FAVAD equation  Mr Asaph Mercy Kabaasha, University of Cape Town, South Africa	An erosion and sediment delivery model for semi-arid catchments  Ms Louise Bryson, Aurecon, South Africa	<p>“Stop Talking and Start Doing” is an apt descriptor for the Imvelisi Enviropreneurship session. This session will engage young researchers, students and professionals in a discourse and application of key entrepreneurship concepts to transform the philosophies of research into impactful and innovative solutions for our continent.</p> <p>Join us for a session where we share our ideas about different aspects of green entrepreneurship and then move to a really practical “doing session” where we canvas different ideas into business concepts.</p> <p>Please see detailed programme below for full details.</p>
13:40 - 14:00	Optimizing water services delivery in developing cities: an analysis of the adequacy of user participation in the water conservation and water demand management system of Gweru, Zimbabwe  Ms Winmore Kusena, University of KwaZulu-Natal, South Africa	Estimation of water balance using GROWA model: case study of the far-north region, Cameroon  Mr Ambe Emmanuel Cheo, Brandenburg University of Technology, Germany	
14:00 - 14:20	Prioritisation of emerging chemical pollutants in South African water systems  Mr Fritz Petersen, University of Pretoria, South Africa	A laboratory investigation of the treatment efficacy of permeable pavements  Mr Benjamin Biggs, University of Cape Town, South Africa	
14:20 - 14:40	Prevalence and characterization of bacteria isolated from abattoir effluents and the receiving water bodies in Benin City, Nigeria  Dr Etinosa Igbinosa, University of Benin, Nigeria	<p><b>Workshop:</b> A young water professionals approach to prioritising research needs for the impact of a shale gas industry in the Karoo</p> <p>Join us for an interactive session where YWPs will be asked to provide their opinions and professional views, on how to prioritise the research needs to address measuring the impact of the growing presence of the shale gas (fracking) industry in the Karoo region of South Africa.</p>	
14:40 - 15:00	Optimisation of an acid mine drainage treatment process using a geochemical modelling approach  Mrs Bronwyn P C Grover, University of the Witwatersrand, South Africa		
15:00 - 15:30	<b>Tea (CSIR ICC Foyer)</b> <b>Posters 75-100 on exhibition</b>		
Parallel sessions	<b>Session 18: Transdisciplinary Special Session</b> Chair: Mrs Shanna Nienaber	<b>Session 19: Groundwater</b> Chair: Mr Ashton Maherry	<b>Session 20: EWSETA Learning Hub Workshop: Entrepreneurship 2</b> Chair: Ms Chantal Ramcharan-Kotze
15:30 - 15:50	<p>It is increasingly being recognised that sustainable water resource management can be achieved through engaged and transdisciplinary research practice, which involves all stakeholders, including: policy makers, academics, private, and public sector players.</p> <p>This transdisciplinary special session showcases research that illustrates the value of engaged and action research practice in the context of social-ecological systems.</p> <p>Through the session, YWPs will learn about the practice of transdisciplinary research in the water sector and its broader implications to one's professional growth and water resource management.</p> <p>Please see detailed programme below for full details.</p>	<b>Guest Speaker:</b> Preekstoel Biofiltration Plant: Using bacteria to treat groundwaters rich in iron and manganese  Mr Geoff du Toit, Aurecon South Africa, South Africa	<p>Refer to description above and see detailed programme below for full details.</p>
15:50 - 16:10		Characterising radon concentrations of groundwater in an area considered for shale-gas exploration in the main Karoo basin  Ms Anya Eilers, Stellenbosch University, South Africa	
16:10 - 16:30		Flow test analysis and monitoring of the deep confined peninsula aquifer in blossoms (Oudtshoorn), Western Cape, South Africa  Mr David McGibbon, Umvoto Africa (Pty) Ltd, South Africa	
16:30 - 16:50		Defluoridation of ground water using mixed Mukondeni clay soils  T Ngulube, Department of Ecology and Resources Management, University of Venda, South Africa	
(18:00 for 18:30) 18:30 - 22:00	<b>Energy and Water Sector Education and Training Authority (EWSETA)</b> <b>Sponsored Gala Dinner (CSIR ICC – Amber Room)</b>		

## DAY 3: Wednesday, 18<sup>th</sup> November

07:00 - 08:30	Tea / coffee / snack breakfast (CSIR ICC Foyer)		
08:15 - 08:30	Briefing Session: for authors and chairmen of the day (Mine Water Division Auditorium – Ruby Auditorium)		
Parallel sessions	<b>CSIR-Monash South Africa Auditorium</b> (Diamond Auditorium)  	<b>Mine Water Division Auditorium</b> (Ruby Auditorium) 	<b>Energy and Water Sector Education and Training Authority (EWESETA) Room</b> (Amethyst Room) 
	<b>Session 21: Governance (Policy)</b> Chair: Ms Suvritha Ramphal	<b>Session 22: Health Related Water Microbiology</b> Chair: Dr Eunice Ubomba-Jaswa	<b>Session 23: EWESETA Learning Hub Workshop: African Sessions – The Post-2015 Agenda</b> Chair: Ms Nora Hanke
8:30 - 8:50	<b>Guest Speaker:</b> Sustainable practices and corporate responsibility in large corporations: The Woolworth's Good Business Journey  Mr Justin Smith (Woolworths Marketing Group, Head of Sustainability)	Surviving the acid barrier: Responses of waterborne pathogenic <i>Vibrio cholerae</i> to simulated gastric fluid  Dr Atheesha Singh, University of Johannesburg, South Africa	This session aims to familiarise you with the Sustainable Development Goals (SDGs) and assist you in gaining insight into the associated research plans, funding mechanisms, and active youth organisations in this space.  Specifically, the session will introduce the SDGs to increase awareness of the greater global context in which water professionals operate in, and kick start a discussion around the available youth networks in the sector and how they currently link to the post-2015 agenda, as well as how each network could/should contribute to this vision.  It is hoped that this will increase YWP participation in the realisation of the SDGs and in so doing assist you in taking up a leading role in shaping the future of the African continent.
8:50 - 9:10	Support to the implementation and maintenance of reconciliation strategies for towns in the southern planning region  Mr Sinawo Jack, Umvoto Africa (Pty) Ltd., South Africa	Improving household level water treatment in Tanzania by chlorinating locally produced ceramic filter pots  Ms Fatuma Matwewe, Ifakara Health Institute, Tanzania	
9:10 - 9:30	Water treatment residues handling, disposal and reuse: The legislation governing it and the national status quo  Mrs Megan Schalkwyk, Umgeni Water, South Africa	Schistosomiasis, an indicator of community water supply and sanitation level-a comparative study of Mgbabor and Ntezi community, Ebonyi state Nigeria  Mr Ikechukwu Godwin, Safe Water and Sanitation Embassy, Nigeria	
9:30 - 9:50	An investigation into improving the payment for water within the Siyanda area of eThekweni  Mr Keke Mehlomakhulu, University of KwaZulu-Natal, South Africa	Prevalence and incidence of <i>Cryptosporidium</i> and <i>Giardia spp.</i> in South Africa and a Pan-African Context  Mrs Folasade Esther Adeyemo, Institute for Water and Wastewater Technology (Durban University of Technology), South Africa	
9:50 - 10:10	Polluting water with a veritable source of energy: The situation in the urban city of Lagos-Nigeria  Mr Timothy Ajayi, Ogun State Institute of Technology, Nigeria	Potentially pathogenic free-living amoebae isolated from a South African hospital water network  Mr Petros Muchesa, Water and Health Research Centre (University of Johannesburg), South Africa	
<b>10:10 - 10:40</b>	<b>Tea (CSIR ICC Foyer)</b>		
Plenary	<b>SESSION 24: CLOSING PLENARY: The role of business in a sustainable water future</b> Join us for a debate about how big business can think innovatively about water sustainability and put innovative ideas and processes into action. Let's explore how business can move beyond talk to doing innovative things for a water secure future.  Chair: Mr Stuart Woolley (YWP-ZA, Conference Chair) Venue: CSIR-Monash University Auditorium (Diamond Auditorium)		
10:40 - 10:50	Woolworths Holdings Ltd.: The Good Business Journey  Mr Justin Smith (Woolworths Marketing Group, Head of Sustainability)		
10:50 - 11:00	Strategic Water Partners Network: Building public-private partnerships for the water sector  Ms Zama Siquabala (Strategic Water Partners Network, Programme Manager)		
11:00 - 11:10	Imvelisi: Enviropreneurs to plug into green supply chains  Mrs Shanna Nienaber (YWP-ZA, Chair)		
11:10 - 11:20	A Good Success Story: A model business for a sustainable water future  Mr Ashwin Seetal (IWA-SA, Vice-chairperson)		

11:10 - 11:50	<b>CLOSING PANEL DISCUSSION:</b> Mr Justin Smith (Woolworths Marketing Group, Head of Sustainability), Mrs Shanna Nienaber (YWP-ZA, Chair), Ms Zama Siqalaba (Strategic Water Partners Network, Programme Manager), Mr Ashwin Seetal (IWA-SA, Vice-chairperson)
11:50 - 12:00	<b>CONFERENCE AWARDS CEREMONY:</b> Conference Organising Committee
12:00 - 12:10	<b>CLOSING OF CONFERENCE:</b> Mr Stuart Woolley (YWP-ZA, Conference Chair)
12:10 - 13:00	Lunch (CSIR ICC Foyer)
13:00 - 17:00	Optional Conference Tours

## DETAILED PROGRAMMES FOR SPECIAL SESSIONS AND WORKSHOPS

### Session No. 4, Day 1

10:50 - 12:20	<b>EWSETA Learning Hub Workshop: Process Controllers &amp; Lab Technicians 1</b> Chair: Ms Mapula Mamejja
10:50 - 11:05	Guest Speaker: Youth Learnerships in KZN and Limpopo Mr Takalani Mda (The Mvula Trust)
11:05 - 11:20	Experiences of a Trainee Projects Engineer at the Swaziland Water Services Corporation Ms Zandile Tengetile Ndlovu, Swaziland Water Services Corporation, Swaziland
11:20 - 11:35	Experience in the water sector as director of Kenya Youth Network Mr Elphas Were, Kenya Economic Youth Network (KEYNET), Kenya
11:35 - 11:50	Suitability and risk assessment of Decentralised Wastewater Treatment Plant (DEWATS) effluent for re-use in agriculture Mr Matti Hanisch, Bremen Overseas Research and Development Association, Germany
11:50 - 12:05	Water resource management through African water stewardship programs, capacity building, awareness raising, and project implementation Ms Larissa Duma, Bremen Overseas Research and Development Association, Germany
12:05 - 12:20	Sustainable agriculture by utilizing human waste products to close the nutrient cycle Mr Matti Hanisch, Bremen Overseas Research and Development Association, Germany

### Session No. 7, Day 1

13:30 - 14:50	<b>EWSETA Learning Hub Workshop: Process Controllers &amp; Lab Technicians 2</b> Chair: Mr Nico van Blerk
13:30 - 13:45	Formal presentation: Wastewater Treatment Process Control Dunyiswa Kosi, Johannesburg Water
13:45 - 14:05	Guest Speaker: The FETWater Programme and WISA process controller accreditation Ms Anita Pillay (WISA Process Controllers Division)
14:05 - 14:50	Q&A session, and open discussion: Wastewater Treatment Process Control

### Session No. 10, Day 1

15:20 - 16:40	<b>EWSETA Learning Hub Workshop: Process Controllers &amp; Lab Technicians 3</b> Chair: Mr Nico van Blerk
15:20 - 15:35	Formal presentation: Testing Laboratory Mr Crosby Bhembe (East Rand Water Care Association, Lab Chemist)
15:35 - 15:50	Formal presentation: Testing Laboratory Ms Palesa Mahase (East Rand Water Care Association, Laboratory Technician)
15:50 - 16:05	Guest Speaker: Laboratory practices and their significance beyond the lab. Dr TG Barnard (University of Johannesburg, Director of Water and Health Research Centre)
16:05 - 16:40	Q&A session, and open discussion: Testing Laboratory



## Session No. 12, Day 2

10:20 - 12:00	Session 12: Water Security Special Session Chair: A/Prof Bimo Nkhata
10:20 - 10:35	<b>Keynote Presentation</b> Prof Suzan Oelofse (Council for Scientific and Industrial Research, Principal Researcher)
10:35 - 10:50	When policy hits reality: Structure and processes in South African water governance Mr Jan Janosch Förster, Water Research Node (Monash University Australia), South Africa
10:50 - 11:05	Trends and myths in mixed communal water resources in Sekhukhune and eThekweni municipalities Mr Elliot Moyo, Council for Scientific and Industrial Research, South Africa
11:05 - 11:20	The role of organisational nesting in risk sharing - a case study of water security in the South African sugar industry Mr Busani Masiri, Water Research Node (Monash South Africa), South Africa
11:20 - 11:35	Participatory approach to water monitoring: a case study of Nainital district, India Mr Jitender Taneja, Water Research Node (Monash South Africa), South Africa
11:35 - 12:00	Discussion and closing A/Prof Bimo Nkhata (Monash South Africa, Director Water Research Node)

## Session No. 14, Day 2

10:20 - 12:00	EWSETA Learning Hub Workshop: Africa Leadership Skills Development Chair: Ms Nora Hanke
10:20 - 10:30	Opening of the session and introduction to session Ms Nora Hanke, Energy and Water Sector Education and Training Authority (EWSETA), South Africa
10:30 - 10:50	What type of job can I get?: Career pathways in the water sector Dr Inga Jacobs-Mata, Water Research Commission, South Africa
10:50 - 11:10	Getting the job: How to sell yourself on a two-page CV Mr Ashton Maherry, Council for Scientific and Industrial Sciences, South Africa
11:10 - 11:30	Excelling in the job: How to have the right attitude for the job Ms Candice Moodley, Energy and Water Sector Education and Training Authority (EWSETA), South Africa
11:30 - 12:00	Q&A session

## Session No. 17, Day 2

13:00 - 15:00	EWSETA Learning Hub Workshop: Imvelisi Enviropreneurship 1 Chair: Ms Chantal Ramcharan-Kotze
13:00 - 13:15	Welcome and introduction to Imvelisi Mrs Shanna Nienaber (YWP-ZA, Chair)
13:15 - 13:45	<b>Opening presentation:</b> Entrepreneurship in Africa - Can our youth/graduates make the entrepreneurship leap? And what will it take? Mr Gareth Taylor (Awethu Project, Head of Incubation)
13:45 - 15:00	<b>Panel Theme:</b> Enviropreneurship – Converting research outputs into sustainable products, technologies and innovations. Why is this so important for Africa? And what is our role in achieving this?  <b>Panel:</b> Dr Mandla Msibi (Water Research Commission, Group Executive: Innovation and Impact), Technology Innovation Agency (TBC), Ms Amy Remane (SAB Miller, Sustainable Development Analyst), Dr Jerry Gule (Total South Africa, StartUpper), Mr Theo Pistorius (Imvelisi Enviropreneur; Owner of IntegritSense), Ms Michelle Hiestermann (Imvelisi Enviropreneur; Owner of Shintsha), Mr Sivuyile Pezulu (Imvelisi Enviropreneur; Owner of InDalo Enviro Solutions (Pty) Ltd)

## Session No. 18, Day 2

15:30 - 16:50	Transdisciplinary Special Session Chair: Mrs Shanna Nienaber
15:30 - 15:45	Using game structuring to make decisions for equitable water resources allocation taking into account uncertainty Mr Gregory Pienaar, Institute for Water Research (Rhodes University), South Africa
15:45 - 16:00	Exploring the role of environmental ethics in water resource management in social-ecological systems Dr Nelson Odume, Institute for Water Research (Rhodes University), South Africa
16:00 - 16:15	The differential impact of access to land, water and ecosystem services on human wellbeing in the lower Sundays River Valley, South Africa Ms Karabo Chadzingwa, Department of Environmental Science (Rhodes University), South Africa
16:15 - 16:30	Evaluation of low-cost technology options for sustainable water supply and sanitation in two peri-urban areas of Lusaka, Zambia Ms Yvonne Chiliboyi, Institute for Water Research (Rhodes University), South Africa
16:30 - 16:50	<b>SPEEED PRESENTATIONS:</b> Fostering knowledge and active citizenship relating to local water issues in Makana municipality - the importance of citizen based research and social learning processes. Mr Matthew Weaver, Institute for Water Research (Rhodes University), South Africa  The ecological risk assessment of acid mine drainage in South Africa Mr Emmanuel c. Vellemu, Institute for Water Research (Rhodes University), South Africa  A systems-thinking approach to e-government strategy formulation for water service delivery in South African local municipalities: the Sundays River Valley Municipality Mr Osah Joshua, Institute for Water Research (Rhodes University), South Africa  Trend analysis and variability of hydrologic time series in the Mbuluzi catchment Mr Coli Ndzabandzaba, Institute for Water Research (Rhodes University), South Africa

## Session No. 20, Day 2

15:30 - 16:50	EWSETA Learning Hub Workshop: Imvelisi Enviropreneurship 2 Chair: Ms Chantal Ramcharan-Kotze
	<b>Panel Theme:</b> An Introduction to Business Model Canvas Development  <b>Panel:</b> Ms Chantal Ramcharan-Kotze (GreenMatter, Head: Marketing & Stakeholder Management), Mr Theo Pistorius (Imvelisi Enviropreneur; Owner of IntegritSense), Mr Godfrey Madzivire (Imvelisi Enviropreneur; Postdoc at Durban University of Technology), Mr Sivuyile Pezulu (Imvelisi Enviropreneur; Owner of InDalo Enviro Solutions (Pty) Ltd), Ms Michelle Hiestermann (Imvelisi Enviropreneur; Owner of Shintsha)
	<b>Working Session:</b> Applying the Business Model Canvas (value proposition and customer segments focus) <ul style="list-style-type: none"> <li>• Do you have a business idea?</li> <li>• How much have you considered in developing your idea?</li> </ul>
	<b>Best ideas:</b> Top three ideas emanating from the business canvas development
	<b>Closing of Workshop:</b> Taking things forward – how and where to from here?  Ms Chantal Ramcharan-Kotze (GreenMatter, Head: Marketing & Stakeholder Management)

## Session No. 23, Day 3

08:30 - 10:10	<b>EWSETA Learning Hub Workshop: African Sessions – The Post-2015 Agenda</b> Chair: Ms Nora Hanke
	PART I – Research Themes
08:30 - 08:35	Formal Introduction to the session  Ms Nora Hanke, Energy and Water Sector Education and Training Authority (EWSETA), South Africa
08:35 - 08:45	What is the post-2015 agenda? Where is the agenda at?
08:45 - 08:55	What is there left to research? Who plans the R&D agenda and where can I find it?
08:55 - 09:10	Questions and Answers
	PART II – Youth Involvement
09:10 - 09:20	African Minister's Council on Water (AMCOW) Policy and Strategy on Mainstreaming Youth in the Water Sector
09:20 - 09:30	How does the World Youth Parliament for Water speak to the post-2015 agenda in Africa?
09:30 - 09:40	How does Water Youth Network speak to the post-2015 agenda in Africa?
09:40 - 09:50	How does WaterNet speak to the post-2015 agenda in Africa?
09:50 - 10:00	How does AfWA YWP speak to the post-2015 agenda in Africa?
10:00 - 10:10	How does IWA YWP speak to the post-2015 agenda in Africa?
	Closing of Session
	Ms Joanna Fatch (WaterNet YWP)