

Sunday 18th April 2010							
	12:00 - 17:00	Onsite Registration and collection of Delegate bags					
	18:00 Onwards	Meet and Greet Reception Sponsored by Zetachem					
Monday 19th April 2010							
Official Opening Ceremony 08:30 - 10:05							
HALL 1AB		WISA President & Conference Chair: Mr. Dave Nozaic		Official Welcome			
		Prof. Roland Schulze		Key Note Address			
Session 2 10:35 - 12:40							
VENUE	TIME	PAPER REFERENCE		PRESENTER		TITLE	THEME
1AB	10:35 - 12:40	WORKSHOP		Prof Schulze, Dr A van Niekerk, R Hounsome and Dr R Heath		Climate change and carbon in the water sector	WORKSHOP
MR11	10:35 - 11:00						Management & Institutional Affairs
	11:00 - 11:25	77	30	Robyn	Tompkins	Incorporating International River Basin Management into Trans-Frontier Conservation Areas Management using a Systems Approach: A Conceptual Case Study	
	11:25 - 11:50	220	170	Gift	Manase	The strategic role of water in sustainable economic growth and development: Implications for South Africa	
	11:50 - 12:15	279	229	Suhayl	Rawhani	Bulk Potable Water Delivery in KwaZulu-Natal Implementing Umgeni Water's Capital Projects Programme	
	12:15 - 12:40	323	251	Alejandro	De Palencia	Targeting the needs in the water sector: the potential of Water Point Mapping. A case study from Tanzania	
MR12	10:35 - 11:00	120	73	Adrian	Van Heerden	Practical application and integration of internet-based tools for water demand at the Hemel and Aarde Estate in Hermanus, South Africa.	Potable Water
	11:00 - 11:25	128	81.2	Paul	Janse van Rensburg	Dual Grey and Drinking Water Reticulation Systems for High-Density Urban and Residential Dwellings in South Africa	
	11:25 - 11:50	142	95	Heinz	Jacobs	Assessing the impact of personal on-site water resources in serviced residential areas on water demand and wastewater flow	
	11:50 - 12:15	184	135	Marietjie	Griffioen	Modeling Water Demand on a Suburb Level	
	12:15 - 12:40	232	181.1	Stephen	Nyende-Byakika	The Hydraulic Impact of Water Supply Network Expansions	
MR21A	10:35 - 11:00	60	12	Herman	Wiechers	Water Quality Management as a Key Component of Catchment Management	Environmental Aspects
	11:00 - 11:25	109	62	John	Harrison	Prescription or Professionalism as a Process for EIA? – the Umdloti Wastewater Treatment Works EIA as a case study.	
	11:25 - 11:50	203	153	Nico	Rossouw	A Guide to the Visual Assessment of Eutrophication Problems	
	11:50 - 12:15	219	169	Lungile	Lukhele	Nanotechnology for Safe Drinking Water in South Africa: What are the Risks?	
	12:15 - 12:40						
MR21B	10:35 - 11:00	254	203.5	M X	Cele	Evaluation of a Woven Fabric Immersed Membrane Bioreactor (WFIMMF) for Wastewater Reclamation	Membrane Processes
	11:00 - 11:25	268	218	Sudhir	Pillay	Performance of an Anaerobic Baffled Reactor with a Membrane Post-Treatment Step Treating a Synthetic Blackwater	
	11:25 - 11:50	85	39	Heribert	Möslang	Membrane Bioreactors – Key Technology for Water Reuse	
	11:50 - 12:15	300	243	Martin	Pryor	Energy Efficiency for a SEA WATER DESALINATION PLANT in Namibia	
	12:15 - 12:40	326	255	Andrew	Layson	Introduction and application of advanced water treatment with membrane filtration in Europe, Australia and NZ	
MR22A	10:35 - 12:40	WORKSHOP		Heinz	Jacobs	Sewer system planning & design.	WORKSHOP
MR22B	10:35 - 12:40	WORKSHOP		L	Manus	WSP & BD	WORKSHOP

**Session 3  
13:40 - 15:20**

VENUE	TIME	PAPER REFERENCE		PRESENTER		TITLE	THEME
MR11	13:40 - 14:05	81	35	Derek	Hazelton	The Phiri case as a guide to achieving equity in sustainable services delivery	Management & Institutional Affairs
	14:05 - 14:30	242	191	Peter	Twesigye. R	Tariff Indexation as a Performance Driver for Service Delivery: The Case of NWSC Uganda	
	14:30 - 14:55	318	250	Barbara	Schreiner	Water regulation in South Africa - understanding the challenge.	
	14:55 - 15:20	139	92	Kevin	Wall	Water Services Infrastructure Asset Management: A Framework for National Implementation	
MR12	13:40 - 14:05	88	42	Amanda	Cassa	A Numerical Investigation Into The Behaviour Of Cracks In Water Pipes	Potable Water
	14:05 - 14:30	102	55	Ayesha	Laher	A Guide to Process Audits leading to plant optimisation.	
	14:30 - 14:55	255	205.2	Mias	van der Walt	The Development of the South African Oxidation and Disinfection Manual	
	14:55 - 15:20	225	175	Gideon	De Villiers	From raw water characterisation to design values: Treating the Nile River water at Khartoum, Sudan	
MR21A	13:40 - 14:05	223	173	Chavon	Williams	Mercury Consintrations in water resources potentially impacted by coal-fired power stations and artisanal gold mining in South Africa	Environmental Aspects
	14:05 - 14:30	280	230	Melanie	Wilkinson	Cost-benefit analysis of the use of humanure from Urine Diversion toilets on subsistence crops in the rural areas of South Africa	
	14:30 - 14:55	52	5	Pulane	Molokwane	Chromium (VI) removal in a packed mesocosm reactors	
	14:55 - 15:20	342	277.1	Petrus	Venter	Hartbeespoort Dam integrated biological remediation: Implementation of wetland and shoreline vegetation	
MR21B	13:40 - 14:05	326	254	Andrew	Layson	Benchmarking China's Solutions to Water Scarcity	Membrane Processes
	14:05 - 14:30	328	282	M.S	Osman	Treatment of Electrodialysis Reversal Brine using Membrane Distillation	
	14:30 - 14:55	327	270	Rhett	Butler	Latest Developments and Design Considerations for Low Pressure Membrane Filtration for Seawater RO Desalination Pre-treatment	
	14:55 - 15:20	326	256	Andrew	Layson	Operating Experience and guidelines for integrated polymer based clarification and Membrane Filtration	
MR22A	13:40 - 15:20	WORKSHOP: TBC				WORKSHOP	
MR22B	13:40 - 15:20	WORKSHOP	L	Manus	WSP & BD	WORKSHOP	

Session 4 15:40 - 16:55							
VENUE	TIME	PAPER REFERENCE		PRESENTER		TITLE	THEME
MR11	15:40 - 16:05	94	48.1	Josiah	Adeyemo	Multi-objective differential evolution (MDEA) for groundwater management	Management & Institutional Affairs
	16:05 - 16:30	151	104	Bekithemba	Gumbo	Financing and cost recovery of water demand management projects in Southern Africa	
	16:30 - 16:55	147	100	Wade	Edwards	A Franchising Model for the Operation and Maintenance of Membrane Technology-based Trade Effluent Treatment Plants	
MR12	15:40 - 16:05	259	209	Shakera	Arendze	Practical means of Solving Mud Ball problems in Sand Filter Media	Potable Water
	16:05 - 16:30	282	232	Lufefe	Siko	Operational Experiences at Coastal Water Recycling Plant	
	16:30 - 16:55	306	260	Thomas	Getting	An American Approach to Designing and Rehabilitating Gravity Filter Systems	
MR21A	15:40 - 16:05	245	194.2	Zama	Siqalaba	The Role Of Training and Capacity Building in the Implementation of Water Demand Management	Education and Training
	16:05 - 16:30	256	206	Gareth	McConkey	Capacity Building of process controllers at Water Services Authorities in The Western Cape through the use of The Municipal Assistant™	
	16:30 - 16:55	293	236	Christiaan	De Jager	A Toolbox of Bio-assays for Detection of Estrogenic Activity in Water	
MR21B	15:40 - 16:55	WORKSHOP		Annatjie	Moolman	Emerging issues of drinking water quality: Are our drinking water safe or not?	WORKSHOP: Emerging issues of drinking water quality: Are our drinking water safe or not?
	<p>The main aim of this workshop will be to encourage interaction and to strengthen the dialogue between the various stakeholders on the following issues:</p> <ul style="list-style-type: none"> <li>- What are the critical issues that we need to address going from the occurrence and fate of known and emerging pollutants to the process of monitoring, modelling and risk assessment of mixtures in water sources?</li> <li>- What should we have in place in order to develop policies to manage our water resources and prevent further pollution?</li> <li>- Are we capable to turn the processes around, do we have the capacity, do we have the insight and political will? <ul style="list-style-type: none"> <li>- What would be the costs?</li> </ul> </li> <li>- Do we have the capacity to do the necessary research or the infrastructure to undertake the monitoring? <ul style="list-style-type: none"> <li>- How do we address emerging pollutants and mixtures?</li> </ul> </li> <li>- What are all the contributing factors for the deterioration of the water quality?</li> </ul> <p>The target audience will mainly be researchers, water treatment ,water resource planners and managers.</p>						
MR22A	15:40 - 16:55	WORKSHOP		M	Murovhi	Water Reuse Registration	WORKSHOP
	<p>The main objectives of the Water Use Registration Workshop are:</p> <ul style="list-style-type: none"> <li>☑ To define the fundamental objectives, the purpose and the need of Water Use Registration in South Africa;</li> <li>☑ To outline all water use registration due processes;</li> <li>☑ To find out from the water users how they would like DWA to service them;</li> <li>☑ To explain the newly introduced Waste Discharge Charge System registration; <ul style="list-style-type: none"> <li>☑ To answer questions related to water use registration;</li> </ul> </li> <li>☑ To give a distinction between water use licensing and water use registration</li> </ul>						
MR22B	15:40 - 16:55	WORKSHOP		L	Manus	WSP & BD	WORKSHOP

Tuesday 20 April 2010

Session 1

08:00 - 10:05

VENUE	TIME	PAPER REFERENCE	PRESENTER	TITLE	THEME
1A	08:00 - 08:25	57 10	Moses Themba Makhweyane	Water Governance: How Water Service Authorities Darkened the Sun	Management & Institutional Affairs
	08:25 - 08:50	71 24	James Gibson	Operational Performance Measurement: The Case of Debre Birhan Water Supply and Sewerage Service in Ethiopia	
	08:50 - 09:15	87 41	Sizani Moshidi	Measuring and publishing water services delivery performance: A regulatory imperative	
	09:15 - 09:40	107 61	Michele Ann McDonald	Lessons Learned in transferring the water services function from national government to local government	
	09:40 - 10:05	143 96	Kevin Wall	The SAICE Infrastructure Report Card – Our take on Water Services	
1B	08:00 - 08:25	130 83	Sekomeng Modise	Reduction of fluoride and nitrate in rural groundwater using NF membranes	Community Water Supply & Sanitation
	08:25 - 08:50	144 97	Mike Masukume	Nitrate removal from Ground Water using modified Natural Zeolite	
	08:50 - 09:15	148 101	Cyprian Murutu	Investigation on limestone-derived apatite as a potential low cost adsorbent for drinking water defluoridation	
	09:15 - 09:40	164 116.1	Adesola llemobde	A model to predict toilet flushing demands within non-residential buildings, A Case Study of a university academic building	
	09:40 - 10:05	221 171.1	Anthony Von Loggenburg	Intergration of MBR with RO for water re-use	
MR11	08:00 - 08:25	103 56.1	Susan Delia Freese	Cost Implication of detergent phosphorus on wastewater treatment	Wastewater
	08:25 - 08:50	103 56.2	Dave Nozaic	Toxicity of commonly used household disinfectants to the activated Sludge process	
	08:50 - 09:15	111 64	Preshanthie Naicker	An Evaluation of an onsite biological Greywater Treatment System when exposed to different loading scenarios	
	09:15 - 09:40	182 133	Joanna Burgess	Biosorption and Bioaccumulation of copper and lead by Phanaerochaete chrysosporium and Pleurotus ostreatus.	
	09:40 - 10:05	247 196.2	Werner Rossle	AUTOMATED sVI measurements INcorporating SHORT-TERM temperature variations	
MR12	08:00 - 08:25	55 8	Emomotimi Bamuza-Pemu	Photocatalytic Degradation of Geosmin: an Evaluation of Process Efficiency	Potable Water
	08:25 - 08:50	82 36	Jacob Douw Van Eeden	Evaluation of technical audits on 61 water treatment works in the Western Cape	
	08:50 - 09:15	185 136	Thabo Innocent Nkambule	Natural Organic Matter (NOM) in South African Waters: Characterization and Methodology for Assessing Treatment Options for NOM in Water	
	09:15 - 09:40				
	09:40 - 10:05	188 138	Omotayo Rafiu Awofolu	How clean and safe are commercial and non-commercial bottled natural and mineral water in South Africa?	
MR21A	08:00 - 10:05	WORKSHOP	L Boyd	Implementation of Integrated WQM model for SA	WORKSHOP
MR21B	08:00 - 08:25	49 2	Phumza Tikilili	Microbial Removal of Polycyclic Aromatic Hydrocarbons from nuclear and radioactive wastewater	Industrial Water & Effluent
	08:25 - 08:50	76 29	Mthokozisi Sishi	Chloride removal from the Kraft Cycle at Mondi's Richards Bay Mill	
	08:50 - 09:15	98 53	Tabani Mtombeni	Brine Treatment using Freeze Desalination	
	09:15 - 09:40	249 198.2	Chris Brouckaert	An Anaerobic co-digestion scheme for treating high-strength and toxic wastes in eThekweni	
	09:40 - 10:05	273 223	Martha Van Schalkwyk	Recovery of Industrial Effluent: Case history of membrane biofouling and the successful treatment with alternating non-oxidising biocide and oxidising biocide	
MR22A	08:00 - 10:05	WORKSHOP	J Burgess	Cleaner Production Technologies in SA Mining Industry	WORKSHOP
MR22B	08:00 - 10:05	WORKSHOP	E Karar	WWC	WORKSHOP

Session 2 10:35 - 12:40							
VENUE	TIME	PAPER REFERENCE		PRESENTER		TITLE	THEME
1A	10:35 - 11:00	317	273	Kathy	Eales	Equity and Efficiency in Water Services: the Climate Change Dimension'	Management & Institutional Affairs
	11:00 - 11:25	67	18	Kevin	Wall	Bucking the Water Services Trend - Franchising O&M in the Eastern Cape	
	11:25 - 11:50	181	132	Jeffery Amos	Mtsweni	An Institutional Framework for Stakeholder Consultation in Trans-boundary River Basin Management	
	11:50 - 12:15	78	31	Oliver	Malete	Implementation of an Integrated Water Quality Management (IWQM) Model – A South African Context	
	12:15 - 12:40						
1B	10:35 - 11:00	234	183	Nicola	Rodda	Effect Of Solid Laundry Powder And Liquid Laundry Detergent On Plants And Soil Irrigated With Laundry Water	Community Water Supply & Sanitation
	11:00 - 11:25	221	171.4	Anthony	Von Loggenburg	Membrane Bioreactors (MBR) for Landfill Leachate Treatment	
	11:25 - 11:50	235	184	Zanele Precious	Nhlabatsi	Synthesis and Characterization of Copper-containing Carbon nanotubes and their use in the removal of impurities in water	
	11:50 - 12:15	249	198.3	Chris	Brouckaert	Modelling of Anaerobic Digestion for Incorporation into a plant-Wide Wastewater Treatment Model	
	12:15 - 12:40	137	90	Nolufefe	Mdingi	Investigating the suitability of using effluent greywater from the AUBR for irrigation	
MR11	10:35 - 11:00	272	222	Wolf	Raber	Development of contextually adapted strategies to manage health risks related to agricultural irrigation with treated wastewater - a case study in Magabheni, South Africa	Wastewater
	11:00 - 11:25	307	248	Vernon	Somerset	Development of Electrochemical Sensors for Heavy Metal Analysis in Water Samples	
	11:25 - 11:50	350	266	Leonardo	Manus	Raising wastewater treatment performance through incentive & risk-based targeted regulation	
	11:50 - 12:15	209	159	Rob	Boyd	Solar Drying and composting of sewage sludge without a bulking agent	
	12:15 - 12:40	248	197.2	Michelle	Vogts	Anoxic - Aerobic Digestion of Waste Activated Sludge from Biological Nitrogen and Phosphorus Removal Systems	
MR12	10:35 - 11:00	244	193.2	Pavel	Polasek	SANS 241, Blue Drop Certification and other Relevant Issues	Potable Water
	11:00 - 11:25	251	200.2	Chris	Swartz	Risk Assessment and Risk Management in Water Supply Systems: State-of-the-Art and case studies in Southern Africa	
	11:25 - 11:50	310	258	Karen	Jordaan	The development of a DNA and/or RNA profiling for bacterial dynamics studies of in freshwater systems	
	11:50 - 12:15	276	226	Monique	Grundlingh	Monitoring of Cryptosporidium Oocysts and Giardia cysts in large Volumes of Drinking Water	
	12:15 - 12:40						
MR21A	10:35 - 12:40	WORKSHOP		Stephan	Roux	Immersed Membrane Bioreactors for Wastewater Remediation – An Overview	WORKSHOP
<b>The purpose of this workshop is to introduce immersed membrane bioreactor (IMBR) technology to potential local users. The workshop is aimed at municipal and industrial wastewater treatment practitioners who have not previously been exposed to IMBR technology.</b>							
MR21B	10:35 - 11:00	298	241	Marc	Wesseler	Advanced Water Treatment for industrial process and waste water by ozonation	Industrial Water & Effluent
	11:00 - 11:25	50	3	Simphiwe	Chabalala	Reduction of Uranium(VI) to Uranium (IV) by three facultative anaerobes, a performance evaluation	
	11:25 - 11:50	54	7	Evans	Chirwa	Simultaneous Cr(VI) Reduction and Phenol Degradation in a Trickle Bed Reactor   System	
	11:50 - 12:15	63	15	Mahlatshe	Sekhula	Recovery of Cu(II) from synthetic industrial wastewater using maize tassel	
	12:15 - 12:40	150	103	Boitumelo	Mankazana	pH conditions of wastewater systems: An important parameter for an effective comparison in the removal of heavy metals by protozoa and bacteria.	
MR22A	10:35 - 12:40	WORKSHOP		J	Burgess	Cleaner Production Technologies in SA Mining Industry	WORKSHOP
MR22B	10:35 - 12:40	WORKSHOP		E	Karar	WWC	WORKSHOP

Session 3 13:40 - 15:20							
VENUE	TIME	PAPER REFERENCE		PRESENTER		TITLE	THEME
1A	13:40 - 14:05	160	112	Gordon	Nameni	Cost Effective Treatment of Pathogenic Microorganisms in Groundwater Using Oligodynamic Nanoparticle Impregnated Sand	Environmental Aspects
	14:05 - 14:30	236	185.2	Folasade	Adeyemo	Stormwater Pollution in Agricultural areas	
	14:30 - 14:55	172	123	David	Odusanya	Levels and Congener profile of PBDES in landfills sediments Pretoria, South Africa	
	14:55 - 15:20	340	275	Zoran	Cukic	Characterisation of Hartbeespoort Dam sediment body	
1B	13:40 - 14:05	254	203.1	Lingam	Pillay	A Gravity-fed Microfilter for Point-of-use Potable Water Production in Rural Areas	Community Water Supply & Sanitation
	14:05 - 14:30	253	202.2	Babatunde	Bakare	Pit latrine additives: Laboratory and field trials	
	14:30 - 14:55	283	233.1	Nicolas	Reynaud	Classifying and monitoring DEWATS-plants in Java	
	14:55 - 15:20	395	287	Sergio	González	Selection of Pipeline corrosion control strategy and impact on economics of water conveyance	
MR11	13:40 - 14:05	113	66	Bertu	Bester	Unit cost-functions for value estimation of waterborne sewer infrastructure	Wastewater
	14:05 - 14:30	119	72	Altus	De Klerk	Description of the 'Sanitown <sup>®</sup> ' model as a benchmark for comparative hydraulic analyses of waterborne sewer systems	
	14:30 - 14:55	252	201	Paul	Gaydon	Clean-Sheet Budgeting for Maintenance – A Simple Accurate Approach!	
	14:55 - 15:20	335	269	Vusi	Mema	Impact of poorly maintained wastewater and sewage treatment plants: Lessons from South Africa	
MR12	13:40 - 15:20	WORKSHOP				Waste Water Treatment Solutions, Improved Service Delivery and Delta Management NETHERLANDS AND SOUTH AFRICA experience based projects	WORKSHOP
		Over the past 5 years, Dutch companies, municipalities, water boards and research organisations have formed strong partnerships in South Africa with Provincial governments, municipalities, education institutions and NGOs in planning and implementing experienced-based projects that have allowed the sharing and exchange of knowledge and technologies for improving water service delivery and water resource management. This workshop will look at the value add propositions of some of the leading projects showcasing their contributions to improved service delivery, the value of enhanced technology and improved water resource management.					
MR21A	13:40 - 15:20	WORKSHOP		K	Wall	Water Services Franchising Partnerships	WORKSHOP
MR21B	13:40 - 14:05	152	105	Katlego	Setshedi	Removal of Heavy Metals from Aqueous Solution Using Hydrotalcite-like Nanostructured Materials	Industrial Water & Effluent
	14:05 - 14:30	215	165	Luis	Carvalho	How To Avoid Costly Water Treatment Mistakes in Industry	
	14:30 - 14:55	249	198.1	Chris	Brouckaert	A protocol for the Quantitative Assessment of Industrial Effluents for Discharge permitting	
	14:55 - 15:20	275	225.2	Stephan	Roux	Pollution control – Cost impacts of a strategy for pollution control at source vs point of use treatment strategies (A Case Study)	
MR22A	13:40 - 15:20	WORKSHOP		J	Burgess	Cleaner Production Technologies in SA Mining Industry	WORKSHOP
MR22B	13:40 - 15:20	WORKSHOP		E	Karar	WWC	WORKSHOP

Session 4 15:40 - 16:55							
VENUE	TIME	PAPER REFERENCE		PRESENTER	TITLE	THEME	
1A	15:40 - 16:05	TBC					
	16:05 - 16:30						
	16:30 - 16:55						
1B	15:40 - 16:05	TBC					
	16:05 - 16:30						
	16:30 - 16:55						
MR11	15:40 - 16:05	61	13	Moses	Lebitso	Protein from activated sludge process as supplement in animal feed – a pilot application	Wastewater
	16:05 - 16:30	164	116.5	Adesola	Ilemobade	Perceptions towards wastewater reuse and a proposed model for institutional and commercial settlements in South Africa	
	16:30 - 16:55	228	178	Tichatonga	Gonah	Towards sustainable reuse of marginal quality water in Syria. Some Challenges and potential opportunities	
MR12	15:40 - 16:05	191	141	Philip	De Souza	Electronic Water Quality Management System (eWQMS) New Developments: Use of a System Engineering Process to aid improved data Quality Assurance/ Quality Control	Information Technology
	16:05 - 16:30	227	177	Brendon	Wolff-Piggott	Supporting Water Management and Engineering with Open Source Geoinformation Technology	
	16:30 - 16:55						
MR21A	15:40 - 16:55	WORKSHOP: TBC				WORKSHOP	
MR21B	15:40 - 16:55	WORKSHOP: TBC				WORKSHOP	
MR22A	15:40 - 16:55	WORKSHOP	J	Burgess	Cleaner Production Technologies in SA Mining Industry	WORKSHOP	
MR22B	15:40 - 16:55	WORKSHOP	E	Karar	WWC	WORKSHOP	
<b>19:30 Onwards</b> <b>Gala Dinner at ICC</b> <b>Sponsored by SIEMANS</b>							

Wednesday 21 April 2010

Session 1

08:00 - 10:05

VENUE	TIME	PAPER REFERENCE		PRESENTER		TITLE	THEME
1A	08:00 - 08:25	179	130	Nancy	Maksimoski	Community Health Club Methodology in informal settlements: case study from eThekweni municipality, KZN, South Africa	Community Water Supply & Sanitation
	08:25 - 08:50	193	143	Ronnie	McKenzie	Scope for pressure management in South Africa	
	08:50 - 09:15	205	155	Zakhele	Kunene	The provision of sanitation services in informal settlements in the City of   Johannesburg	
	09:15 - 09:40	222	172	Lusanda	Jiya	Is Community Mobilisation a Licence to Trade? Lessons from Operation Gcin'Amanzi	
	09:40 - 10:05	231	180	Siphumelele	Mdletshe	Challenges experienced and lessons learnt - Operation & Management of Ilembe Rural Water Supply Scheme	
1B	08:00 - 08:25	164	116.4	Adesola	Ilemobade	New Guidelines for Non-Domestic Water Estimation in South Africa	Community Water Supply & Sanitation
	08:25 - 08:50	190	140	David	Raymer	Are we facing a water/sanitation crisis in South Africa - Why?	
	08:50 - 09:15	243	192.1	Nicola	Rodda	Guidelines for sustainable use of greywater in small-scale agriculture and gardens in South Africa	
	09:15 - 09:40	271	221	Richard	Holden	Urban Sanitation Technologies: Is there a Realistic Alternative to Waterborne   Sewage?	
	09:40 - 10:05	294	237	David	Still	Management of Faecal Waste from On-Site Sanitation in South Africa: How are we doing?	
MR11	08:00 - 08:25	51	4	Nonhlanhla	Ngwenya	Studies on bacterial activity, population dynamics and diversity during bioremediation of aqueous systems contaminated with fission products	Wastewater
	08:25 - 08:50	70	23	Japie	Schoeman	Evaluation of a South African clinoptilolite for the removal of ammonia-nitrogen from secondary effluent	
	08:50 - 09:15	146	99	Mpho	Ramphao	The Impact of Anaerobic Pre-Treatment and MLE Process on the Design of Biological Nutrient removal at Darling WWTW	
	09:15 - 09:40	149	102	Zinhle	Marrengane	The impact of wastewater composition, operating parameters and plant configurations on filamentous bacterial populations at Darvill Wastewater Works.	
	09:40 - 10:05	163	115	Maggy Ndombo B	Momba	Removal profile of Cryptosporidium and Giardia from inadequately treated wastewater – A case study in Tshwane, Northern Gauteng Province	
MR12	08:00 - 08:25	84	38	Natasha	Potgieter	Improving health-related microbial quality of drinking water at the point of use with ceramic Potters for Peace filters: effects on rural people living with HIV/AIDS	Health Related Aspects
	08:25 - 08:50	91	45	Faye	Balfour	Water Quality Testing Information Toolkit for laboratories and Water Services   Authorities	
	08:50 - 09:15	97	52	Batsirai	Majuru	The effect of new small community water supply services on health	
	09:15 - 09:40	157	109.2	Jo-Anne	Geere	Domestic water carrying and its implications for health in Limpopo Province, South Africa	
	09:40 - 10:05	266	216	Annatjie	Moolman	Quality of Domestic Water Supplies Guidelines: 10 years of relevance to the sector.	
MR21A	08:00 - 10:05	WORKSHOP: TBC				WORKSHOP	
MR21B	08:00 - 08:25	106	60	Sarah	Skinner	Applying Comparative Risk Analyses for determining best options for rehabilitation	Mine Water
	08:25 - 08:50	176	127	Rainier	Dennis	Fuzzy Logic Risk Model: A Tool to Assess the Impacts of Mining on Groundwater Systems	
	08:50 - 09:15	99	54	Hangwi	Bologo	Treatment of acid mine drainage using magnesium hydroxide	
	09:15 - 09:40	158	110	Hannes	Joubert	Removal of sulfide from effluents with ferric hydroxide	
	09:40 - 10:05	200	150	Priyal	Dama-Fakir	The effect of salinity in brines produced from the treatment of mine water on evaporation rates	
MR22A	08:00 - 10:05	WORKSHOP		P	Reddy	Small Wastewater Treatment Works	WORKSHOP
MR22B	08:00 - 10:05	WORKSHOP		E	Karar	TBC	WORKSHOP

Session 2 10:35 - 12:40							
VENUE		PAPER REFERENCE		PRESENTER		TITLE	THEME
1A	10:35 - 11:00	342	277.2	Petrus	Venter	Addressing desertification and global warming through Integrated Water Resource Management (IWRM) principles	Integrated Water Resource Management
	11:00 - 11:25			Sameer	Morar	Overview:Hartbeespoort Dam Integrated Biological Remediation Programme	
	11:25 - 11:50		274	Gert	Steyn	Foodweb restructuring and monitoring of the Hartbeespoort Dam	
	11:50 - 12:15		265	Zoran	Cukic	Characterisation and managing of internal nutrient load (sediments) of the Hartbeespoort Dam	
	12:15 - 12:40		278	Vuoko	Laurila	Information,Communication and knowledge Centre (ICC) for the Harties Metsi a Me Programme and Catchment	
1B	10:35 - 11:00	69	21.1	Mark	Shepherd	Reducing Non-Revenue water in the Durban Central Business District	Community Water Supply & Sanitation
	11:00 - 11:25	80	33.1	Matodzi Michael	Mokoena	The effect of water-service delivery on the risk of infection posed by water in household containers	
	11:25 - 11:50	114	67	Olufisayo Akinlolu	Olufayo	Assessment of sand reservoir water storage using rainfall analysis at specific rainfall thresholds	
	11:50 - 12:15						
	12:15 - 12:40	281	231	Shawn	Moorgas	Enhancement of Existing electronic Water Quality Management System (eWQMS) for Sustainable Water Services Programme in KZN	
MR11	10:35 - 11:00	145	98.2	Vincent	Ojijo	A comparative study of the performance of South African coal fly ash and carbonaceous adsorbents in the removal of melanoidin from wastewater.	Wastewater
	11:00 - 11:25	202	152	Zaheer	Ortell	Introducing Membrane Technology for Municipal Wastewater Treatment at the Zandvliet Wastewater Plant, Cape Town, South Africa	
	11:25 - 11:50	263	213	George	Ekama	The impact of urine diversion on biological nutrient removal activated sludge systems.	
	11:50 - 12:15	394	286	Garth	Gademan	Aerobic Granular Activated Sludge	
	12:15 - 12:40	336	268	A.G.	Pienaar	Development and assessment of a ceramic membrane bioreactor for wastewater purification purposes	
MR12	10:35 - 11:00	86	40	Ivy	Thomas	Microbiological quality of irrigation water and minimal processed food products produced by rural subsistence farmers in the Limpopo Province of South Africa	Health Related Aspects
	11:00 - 11:25	110	6.3	Nicola	Rodda	Microbial quality of drinking water from groundtanks, standpipes and community tankers at source and point of use in eThekweni Municipality, and its relationship to health outcomes	
	11:25 - 11:50	138	91	Colette	Khabo-Mmekoa	The Prevalence of Enteric Pathogens in drinking water and its impact on the health of HIV/AIDS individuals in KwaZulu Natal Province , South Africa	
	11:50 - 12:15	155	107.2	David	Hawksworth	The effects of temperature and relative humidity on the viability of Ascaris eggs in urine diversion waste	
	12:15 - 12:40	175	126	Carin	Bosman	The Hidden Dragon: Nitrate Pollution from Open-Pit Mines – A case study from the Limpopo Province, South Africa	
MR21A	10:35 - 12:40	WORKSHOP		Tony	Bowers	ISOE	WORKSHOP: ISOE
MR21B	10:35 - 12:40	WORKSHOP		Mandla	Msibi	REVIEW OF THE NWRS	WORKSHOP: REVIEW OF THE NWRS
		<p>The revision of the NWRS will address all stakeholders within the water sector. A number of legislations may affect or impact on the management of the water resources; therefore it is highly important to include the relevant stakeholders, and water sector service providers. The stakeholder engagements should therefore extend to include all stakeholders, role-players, institutional arrangements, government agencies- that impact in any way, either directly or indirectly on the management of water resources.</p> <p>During the Workshop we will generally present:</p> <ol style="list-style-type: none"> <li>1. The approach to the revision of the document.</li> <li>2. The Four sub-strategies</li> <li>3. The 7 enabling strategies</li> <li>4. Implementation</li> <li>5. And time for discussion.</li> </ol> <p>All water sector people, engineers, consultants, government officials, water managers, water services, water quality/quantity, Water allocation, groundwater</p>					
MR22A	10:353 - 12:40	WORKSHOP		P	Reddy	Small Wastewater Treatment Works	WORKSHOP: Small Wastewater Treatment Works
MR22B	10:353 - 12:40	WORKSHOP		E	Karar	TBC	WORKSHOP: TBC
		Description to follow					

Session 3 13:40 - 15:20							
VENUE	TIME	PAPER REFERENCE		PRESENTER		TITLE	THEME
1A	13:40 - 14:05	117	70	Tiaan	Wright	Methodology for identifying and assessing groundwater use in serviced residential areas of the Cape peninsula	Ground Water
	14:05 - 14:30	167	118	Pannie	Engelbrecht	Artificially recharging the Langebaan Road Aquifer, South Africa	
	14:30 - 14:55	277	227	Helen	Seyler	Groundwater modelling an essential tool for aquifer management and yield limit determination - case study from Gateway wellfield Hermanus	
	14:55 - 15:20	295	238	Elizabeth	Theron	Evaluation of the Aardvark constant head soil permeameter to predict saturated hydraulic conductivity	
1B	13:40 - 14:05	68	19.2	Nozibele	Mjoli	Turning sanitation policy into practice	Community Water Supply & Sanitation
	14:05 - 14:30	72	25	Neil	Armitage	An evaluation of the effectiveness of a Sustainability Index in assessing water management in the cities of East London and Port Elizabeth	
	14:30 - 14:55	124	77	Godfrey	Mwiinga	Water Conservation and Water Demand Management in Practice	
	14:55 - 15:20	334	272	RICARD	Giné	The enhanced Water Poverty Index: Targeting the water poor at different scales	
MR11	13:40 - 14:05						Wastewater
	14:05 - 14:30	233	182	Joseph Kapuku	Bwapwa	Performance analysis of an anaerobic baffled reactor treating complex particulate wastewater in ABR membrane-bioreactor unit	
	14:30 - 14:55	253	202.1	Katherine	Foxon	Anaerobic digestion of domestic wastewater: The role of microbial selection pressure in the rate and extent of digestion	
	14:55 - 15:20	391	276	Heidi	Snyman	South African Sludge Management Guidelines - Innovation and Impact	
MR12	13:40 - 14:05	WORKSHOP		Mandla	Xulu	Introduction: Challenges facing the implementation of the Waste Discharge Charge System (WDCS) in the Crocodile (West) Marico Water Management Area	WORKSHOP: Waste Discharge Charge System
	14:05 - 14:30			Johan	Mare	Implementing the Waste Discharge Charge System in the Crocodile (West) Marico Water Management Area	
	14:30 - 14:55			Hendrik	Enslin	Development of information systems for the Crocodile (West) Marico Water Management Area to support the implementation of the Waste Discharge Charge System	
	14:55 - 15:20			Petrus	Venter	Workshop on WDCS (to continue during session 4)	
	<p><b>The WDCS is earmarked for implementation as from April 2011 and it is of the utmost importance to inform delegates about the requirements, challenges and constraints faced with the implementation of this initiative. The Crocodile (West) Marico Water Management Area is the pilot area for the implementation of the WDCS and the Harties Metsi a Me project is used as the vehicle for testing the system. Several important lessons learned need to be shared with major stakeholders such as Metropolitan Councils, Local Authorities, Provincial Government, industry and mining. The Harties Metsi a Me programme is endorsed by the North West Provincial Government and supported by Finnish government through international liaison and funding.</b></p>						
MR21A	13:40 - 15:20	WORKSHOP: TBC				WORKSHOP	
MR21B	13:40 - 15:20	WORKSHOP: TBC				WORKSHOP	
MR22A	13:40 - 15:20	WORKSHOP	P	Reddy	Small Wastewater Treatment Works	WORKSHOP	
MR22B	13:40 - 15:20	WORKSHOP	E	Karar	TBC	WORKSHOP	

Session 4 15:40 - 16:55							
VENUE		PAPER REFERENCE		PRESENTER		TITLE	THEME
1A	15:40 - 16:05	TBC					
	16:05 - 16:30						
	16:30 - 16:55						
1B	15:40 - 16:05	105	59	Sarah	Skinner	Providing groundwater information for the reconciliation strategy for DWAF All Towns Northern Region Study	Community Water Supply & Sanitation
	16:05 - 16:30	141	94.1	Deborah	Cousins	A Guideline for the Integration of Community based Procurement for O&M of Basic Water and Sanitation Services	
	16:30 - 16:55	134	87	Claudius	Zindoga	Reducing vandalism and increasing the sustainability of community services	
MR11	15:40 - 16:05	66	17	Alan	Brent	Towards an appropriate framework for the selection of sustainable sewage purification processes in South Africa	Community Water Supply & Sanitation
	16:05 - 16:30	95	50	Godfrey	Mvuma	Towards a comprehensive framework to govern the main sustainability issues of inland industrial complexes	
	16:30 - 16:55	131	84	Jason	Rosenfeld	Stimulating Incremental Improvements to Community Water Supply through Community Health Clubs in the Umzimkhulu Local Municipality	
MR12	15:40 - 16:55	WORKSHOP		Petrus	Venter	WDCS Workshop: Demonstration of online electronic registration, WDCS desktop assessment and modeling, data acquisition, validation and verification	WORKSHOP: Waste Discharge Charge System <i>(continued)</i>
MR21A	15:40 - 16:55	WORKSHOP: TBC					WORKSHOP
MR21B	15:40 - 16:55	WORKSHOP: TBC					WORKSHOP
MR22A	15:40 - 16:55	WORKSHOP		P	Reddy	Small Wastewater Treatment Works	WORKSHOP
MR22B	15:40 - 16:55	WORKSHOP		E	Karar	TBC	WORKSHOP
<b>Farewell Function Sponsored by Umgeni Water</b>							
<b>17:00 Onwards</b>							
<b>Thursday 22 April 2010</b>							
<b>Technical Tours - Please contact the Conference Secretariat for bookings</b>							