



Monday: 02 March 2009

- 09:00-09:45 Official Opening of the Conference by the Deputy Minister Environmental Affairs and Tourism Rejoice T. Mabudafhasi and the Ambassador of the Federal Republic of Germany Dieter W. Haller Master of Ceremony: Patrick Swartz, Mayor City of Stellenbosch (invited)
- 09:50-10:10 Bärbel Höhn (Member of the German Federal Parliament) T.B.A.
- 10:10-10:30 Rivka Kfir (Director Water Research Commission, RSA) T.B.A.
- 10:30-11:00 Coffee Break

Session 2 "Climate Change"

- 11:00-11:30 (Keynote) <u>Hannes Rautenbach</u> (Univ. Pretoria, RSA) Climate Change: Is it becoming a Reality in South Africa?
- 11:30-11:50 <u>Mark Summerton</u> (Umgeni Water, RSA) The Impact of a Changing Climate on Water Yield,
- 11:50-12:10
 Sebastian Schmuck (Univ. Duisburg-Essen, GER)

 Benchmarking greenhouse gas emissions of wastewater treatment plants
- 12:10-12:30 <u>Joseph Alcamo</u> (Univ. Kassel, GER) Climate change and water resources
- 12:30-12:50 Sipho Dube and <u>Herman Wiechers</u> (Dube Ngeleza Wiechers, RSA) Addressing Climate Change challenges facing South Africa
- 12:50-14:00 Lunch

Session 3 "Socio-Economic Aspects"

14:00-14:30	(Keynote) <u>Hans-Curt Flemming</u> (Univ. Duisburg-Essen, GER) Water, Religion and Culture
14:30-14:50	<u>Alexandra Lux</u> (Institute for Socio-Ecological Reasearch, GER) Social-ecological reflection of water economics and Integrated Water Resource Management (IWRM)
14:50-15:10	<u>DD Tewari</u> (Univ. KwaZulu Natal, RSA) Water Markets In South Africa: How Successful They will be?
15:10-15:30	<u>Nicole Kranz</u> (FU Berlin, GER) What Drives Business Actors to Make a Contribution to Sustainable Water Management?

15:30-16:30 Poster Session

Session 3 "Socio-Economic Aspects" (continued)

- 16:30-16:50 <u>Konrad Soyez</u> (Potsdam University, GER) Communal Water House
- 16:50-17:10 <u>Friederike Arnold</u> (Humboldt University Berlin, GER) Technology Mediation and its implications for a Communal Water House

Special Lecture:

17:10-17:40	<u>Eugene Cloete</u> (Univ. Pretoria, RSA)
	Nanotechnology in water - current status and future perspectives

19:00-21:00 Reception by the German Ambassador

Tuesday, 03 March 2009

Session 4 "Water Quality"

(Keynote) <u>Trevor Britz</u> (Univ. Stellenbosch, RSA) Microbially Polluted Irrigation Water: Potential Impact on Food Safety
<u>Jens Dahlmann</u> (Applied Biosystems, GER) Different ways of enhancing productivity in trace analysis of pesticides in food and water samples using sensitive LC/MS/MS technology
<u>Malebo Matlala</u> , Jonathan Taylor and Leon van Rensburg (North West University, RSA) The use of Diatoms for analysing water quality in wetlands, a South African perspective_
<u>M. Seidel</u> , A. Wolter, C. Peskoller, R. Niessner (TU München, GER) Combining rapid enrichment processes with microarrays for the detection of multiple pathogenic bacteria in drinking water
Coffee Break
(Keynote) <u>Bin Hu</u> (Univ. Wuhan, PRC) New trends in environmental water analysis
<u>R. Köster</u> , T. U. Wagner, B. Hetzer (Karlsruhe Institute of Technology, GER) Highly sensitive detection of environmental pollutants -aquatic colloids- in drinking water by Laser-induced Breakdown Detection (NPA/LIBD)
Marié Julsing (Spectro Analytical Instruments, RSA) Improvement of the sensitivity utilizing pneumatic nebulization with subsequent removal of the solvent
<u>Hans-Christian Sorge</u> (IWW, GER) An important tool to perform a responsible drinking water supply
<u>Christian Thomasius</u> and Elke Eckert (Berlin Water, GER) An Integral Rehabilitation Strategy for Urban Water and Sewerage Networks
Lunch

Session 5 "Water Treatment"

14:00-14:30	(Keynote) <u>Jo M. Barnes</u> (Univ. Stellenbosch, RSA) Health Aspects of the Re-Use of Household Wastewater
14:30-14:50	<u>Monika Reitz</u> (RWTH Aachen, GER) Treatment of grey and black water on board of see-going vessels
14:50-15:10	<u>Heinz Maus</u> , Kai Thormeyer (RWG Ruhr-Wasserwirtschafts-Gesellschaft mbH, GER) Potential for Synergism by Co-Treatment of Municipal and Industrial Wastewate
15:10-15:30	Christoph Brepols, <u>Kinga Drensla</u> , Norbert Engelhardt, Norbert Gröning, Henning Heidermann, Andreas Janot, Heinrich Schäfer (Erftverband, GER) Ten years of operation and research in municipal membrane bioreactor facilities
15:30-16:30	Poster Session
16:30-16:50	Myint M. Sein, Alexandra Jarocki, Torsten C. Schmidt, Alfred Golloch, Clemens von Sonntag (Univ. Duisburg-Essen, GER) Oxidative Treatment of Organic Water Contaminants Tributyltin chloride, TCPP, TnBP, Iopamidol and Diclofenac in Wastewater Effluents by O ₃ and O ₃ /H ₂ O ₂
16:50-17:10	Wolf von Tümpling, Andrea van der Veen, Martina Baborowski, Claudia Kraft, Jörg Kraft, Margarete Mages, Mihály Óvári (UFZ, GER) Dynamics of heavy metals and arsenic in river sediments after mining spills in the catchment area of the Hungarian Tisza
17:10-17:30	Dieter Stetter, Oliver Dördelmann (IWW Mülheim, GER) Heavy metal removal using ion exchange processes - research projects, approval and application in germany
19:00-21:00	Conference Dinner

Wednesday, 04 March 2009

Session 6 "IWRM "

09:00-09:30	(Keynote) N.N. T.B.A.
09:30-09:50	<u>Jörg Londong</u> and Dietrich Borchardt (Bauhaus Univ. Weimar, GER) Prioritisation of measures for water pollution control in river basin management
09:50-10:10	E.O. Igbinosa, <u>A.I. Okoh</u> (Uni. Fort Hare, RSA) Impact of discharge wastewater final effluents on the qualities of a receiving watershed in a typical rural community of the Eastern Cape Province
10:10-10:30	<u>A. Smit</u> , G. Mackintosh, P. De Souza [,] A. Blanckenberg (Stellenbosch Municipality, RSA) Stellenbosch Municipality Drinking-Water Quality Management: Lessons Learnt
10:30-10:50	Coffee Break
10:50-11:10	<u>Christine Kübeck</u> , Wolfgang van Berk, Axel Bergmann, Carsten Hansen, Christoph König (TU Clausthal, GER) Raw Water Quality Management - Hydrogeochemical Modelling
11:10-11:30	<u>U. Jack</u> , G. Mackintosh, G. Offringa and Jo Burgess (Emanti Management Pty, RSA) Development and Implementation of a Drinking Water Supply System Management Tools and Guidelines

Session 6 "IWRM" (continued)

11:30-11:50 K. Streuders, <u>P. De Souza</u>, F. Stevens, S. Moorgas (DWAF, RSA) Use of a Performance Management Tool for Driving Improved Municipal Water Quality Management: Northern Cape Experience

Session 7 "Funding Oportunities"

12:00-12:15	<u>Peter Wolfmeyer</u> (ZENIT GmbH, GER) The Enterprise Europe Network - Opportunities for international Technology Transfer in the water sector
12:15-12:30	Tanja Fröhlich (German Embassy, GER) German-South African research cooperation in the water sector
12:30-12:45	<u>Robert Kriger</u> (NRF, RSA) Public Funding Structures in South Africa
12:45-13:00	Discussion
13:00-13:15	Closing enviroWater
13:15-14:30	Lunch
14:30-18:00	Various Workshops & Short Courses

(see Announcements)

Poster Contributions

The poster will be on display during the whole conference. For the presentation we will have dedicated poster sessions on Monday, 02 March 2009 (tentative time: 16:30-16:50) and on Tuesday, 03 March 2009 (tentative time: 15:30-16:30).

<u>Alfred Golloch</u> (CAI, GER) The Removal of X-Ray Contrast Media from Wastewater - an Environmental Problem

<u>Jens Dahlmann</u> and Stefan Pflugmacher (Applied Biosystems, GER) Low level quantification, identification, and characterization of cyanobacterial toxins using LC/MS/MS with library searching capabilities

<u>Jens Dahlmann</u> and Jan Lembcke (Applied Biosystems, GER) Recent Challenges in LC-MS/MS Laboratories. How to overcome the challenges of Fast LC in combination with Fast Scanning

<u>Mark D Imisides</u> (Aqua Diagnostic Pty Ltd, Australia) Optimization of Wastewater Treatment Plant operation by the real-time estimation of influent BOD with PeCODÔ technology

<u>Yvonne Rühe</u>, Christoph Plogmeier, Guenter Meon (Univ. Braunschweig, GER) Development of a Decision Support System (DSS Lake Chao) for the Mitigation of Eutrophication of Lake Chao, China

<u>Kinga Drensla</u>, Norbert Engelhardt, Henning Heidermann, Andreas Janot (Erftverband, GER) Practice and experience with the chemical cleaning of membranes

Christoph M. König, <u>Torsten Seidel</u> (delta h Ingenieurgesellschaft, GER) 3D MULTICOMPONENT REACTIVE TRANSPORT MODELING OF NITRATE REDUCTION IN THE CATCHMENT AREA OF WATER WORKS ON THE NIEDERRHEIN IN GERMANY

<u>Khalid Y. Muwembe</u>, Lukiya Tazalika, Deus Bamanya (Ministry of Water and Environment, Makerere University, UGANDA) Using Remote Sensing for Assessment and Monitoring of Drought Related Surface Water Stress in Pastoral Areas of Uganda

Werner Bidlingmaier, Eckhard Kraft, <u>Jörg Londong</u>, Jasmin Heinze (Bauhaus Univerität Weimar, GER) Transferring Environmental Engineering and Sanitation Knowledge – long distance learning and cooperations

<u>E. Yücesoy</u>, Martin Denecke, R. Widmann (Univ. Duisburg-Essen, GER) Estimation of Actual Biomass in Activated Sludge by Determination of Protein Concentrations with the Modified Lowry Method

<u>Natasha Potgieter</u> (Univ. of Venda, RSA) Evaluation of point-of-use intervention strategies to improve the microbiological quality of stored drinking water in rural communities in South Africa

E.E.O. Odjadjare, <u>A.I. Okoh</u> (Univ. Fort Hare, RSA) Quality of the final effluents of wastewater treatment facility in a typical urban community of the Eastern Cape: Physicochemical regimes, Salmonella and Listeria species survival as case studies

<u>Anthony I. Okoh</u>, Augustina N. Osode (Univ. Fort Hare, RSA) Wastewater treatment in a sub-urban community of the Eastern Cape: compliance status of final effluent in terms of physicochemical qualities and Escherichia coli prevalence

<u>Chicgoua Noubactep</u> (Univ. Göttingen, GER) Affordable "Drinking Water for all": an Achievable Goal

<u>Ratnaningtyas Budhi Lestari</u> (Univ. Duisburg-Essen, GER) Inside to the coagulation and precipitation process in the Nalgonda technique for drinking water defluoridation

<u>Torsten C. Schmidt</u>, Ulrich Borchers (Univ. Duisburg-Essen/IWW Mülheim, GER) Chemical Indicators of Water Quality

Rüdiger Kaus (FH Niederrhein, GER)

Measurement uncertainty arising from sampling Overview about the new EURACHEM-Guide

Poster Contributions (continued)

<u>Rüdiger Kaus</u> (FH Niederrhein, GER) Use of uncertainty information in compliance assessment Overview about the new EURACHEM-Guide

<u>Rüdiger Kaus</u> (FH Niederrhein, GER) Method development of a quick determination of pesticides with LC-MS/MS and direct injection

<u>Holger Lutze</u> (Univ. Duiburg-Essen, GER) Elimination of Taste and Odor Compounds and Bromate Formation during Ozonation and the AOP O_3/H_2O_2

<u>Jo M. Barnes</u>, M.M. Slabbert (Univ. Stellenbosch, RSA) The Antibiotic Resistance of E. coli Organisms Surviving Improper Water Chlorination

<u>N. Huisamen</u>, G.O. Sigge & T.J. Britz (Univ. Stellenbosch, RSA) Investigation of the Water Quality of the Eerste and Plankenburg Rivers as Irrigation Sources and the Impact on the Safety of Fresh Produce

<u>Amanda S. Brand</u>, Gunnar O. Sigge & Trevor J. Britz (Univ. Stellenbosch, RSA) Assessment of microbiological quality of the Berg River as asource of irrigation water for raw and minimally processed crops

S.Henden, M.Horstkott, I.Kirstein, J.Bergmann, W.Junge, A.Perschke and <u>H.Franke</u> (Univ. Duisburg-Essen, GER)

Algae-bioreactor as a filter for exhaust gases and waste water with high organic carbonic contents

<u>R. Brown</u>, T. Manxodidi, L. Rossouw, B. Gaile, P. de Souza (Emanti Management, RSA) Challenges Associated with River Health Management: The Stellenbosch Experience

<u>Karl Molt</u> (Univ. Duisburg-Essen, GER) Infrared Spectrometric Purity Control of Organic Liquids and Water

<u>S. M. E. Ngobe</u>, E Varkevisser (Rand Water, RSA) Socioeconomic aspects of water (virtual water, water and society): Water in the environment - Rand water urban water systems

Enos Ngobe (Rand Water, RSA) Water and security: Essential service agreement and strikes

<u>Gilles Bornert</u> (DRSSA Brest, France) Water Quality Management in Critical Situations: The French Experience

Further poster presentations are still accepted. Please email your proposal as soon as possible to <u>info@envirowater.de</u>