

IFAT Africa 2017

- | DWA-Special I
„Wastewater – the untapped Resource“
- | DWA-Special II
„Technology Adaptation – Sewage and Sludge Treatment “
- | University Challenge Africa (UCA)
- | The German Water Industry
German Pavilion/German Water Partnership

September 12 – 14, 2017, Johannesburg Expo Centre (JEC)



Clear concepts. Clean environment. Shaping the future with the DWA.

DWA PUBLICATIONS

Set of Rules

DWA experts formulate new findings as well as proven technical procedures in standards and guidelines and thus make an important contribution to the protection of the environment and material goods. They transform legal requirements into practical recommendations for action.

Journals, software, books

The journals *KA – Korrespondenz Abwasser* and *KW – Korrespondenz Wasserwirtschaft*, software for the application of technical rules, specialist books, summary reports, dictionaries and brochures provide target-group-specific information and support engineers, operating staff and municipalities in their everyday work.

DWA TRAINING

Events and competitions

Continuous vocational qualification and targeted youth development are important offers by the DWA. Conferences, seminars and other professional events keep engineers and operating personnel up to date. Professional competitions for aspiring academics and specialist staff motivate and draw the attention of employers to good employees.

International activities

Internationally, the DWA cooperates with state development cooperation organisations. It trains multipliers, develops curricula and compiles teaching materials, in order to qualify the operating personnel of water management plants abroad, thereby improving the environmental, social and occupational safety standards.

DWA NETWORK

Knowledge pool

The DWA sees professional, interdisciplinary and cross-border exchange as a motor for personal and professional development. The DWA views itself as a network that brings together different groups. Part of this is the neighbourhoods in which employees of wastewater treatment plants, sewer operations, landfills, providers of water body maintenance and municipalities come together and share their knowledge.

Research and development

The DWA is a link between science and practice. It presents the need for research to science and the Federal Ministry, and incorporates research perspectives in its Set of Rules and its training programme.

DWA SERVICE

Library

Specialist books and specialist articles on all water management related issues can be found in the DWA Library. In addition, the DWA literature database contains around 56,000 titles and articles. The bibliographic data of books, series of papers, journal articles, electronic publications and so-called "grey literature" can be researched here. (en.dwa.de/dwa-library.html)

Safety management

Operators of wastewater systems and dams and those responsible for the maintenance of water bodies can test and certify their Technical Safety Management (TSM) with the DWA-TSM. The TSM demonstrates that quality standards are observed and regulations adhered to. (en.dwa.de/tsm.html)

Auditing

For flood precautions, the DWA offers municipalities and water associations the opportunity to put their protective measures to the test. The DWA audit proposes measures to prevent or limit damage. (www.dwa.de/audit)

DWA-Special I

Tuesday, 12th of September 2017, 2 pm – 4.30 pm, Forum I (Hall 5)

Wastewater – The untapped Resource

Organized in corporation with the Water Institute of Southern Africa (WISA)



Moderation: *Dr. Friedrich Hetzel, Head of Department Water and Waste Management, DWA, Hennef, Germany*



2 pm	Opening <i>Dr. Friedrich Hetzel, Head of Department Water and Waste Management, DWA, Germany</i> <i>Achim Wurster, Vice-Chair of the Board, WISA, South Africa</i>
2.10 pm	Domestic wastewater reuse overview and research in South Africa <i>Chris Swartz, Professional water utilisation engineer, Cape Town, South Africa</i>
2.35 pm	Managing wastewater outside the urban sewerage edge – lessons from German-South-African Collaboration <i>Carley Truyens, Project coordinator, Borda-Africa, Durban, South Africa</i>
3 pm	Wastewater treatment at a production factory; a case study of Nestlé Ghana <i>Emmanuel Antwi Akoto, Ayisi & Associates, Accra, Ghana</i>
3.25 pm	Mine water reuse overview and research in South Africa <i>Achim Wurster, Process Engineer, independent, Pretoria, South Africa.</i>
3.50 pm	Sludge as a resource – energy, nutrients and environment <i>Roland Knitschky, International Cooperation, DWA, Germany</i>
4.10 pm	Discussion with Plenary

DWA-Special II

Wednesday, 13th of September 2017, 3 pm – 5 pm, Forum I (Hall 5)

Technology Adaptation – Sewage and Sludge Treatment

Organized in corporation with the German Academic Exchange Service (DAAD) and the University of Siegen (CICD) – supported by the Federal Ministry for Economic Cooperation and Development BMZ, Germany



Moderation:

Roland Knitschky, German Association for Water, Wastewater and Waste (DWA), Hennef, Germany

Michael Kaleke Kabungo, Kalumbila Town Development Corporation, Kalumbila, Zambia



3 pm	Introduction <i>Moderators</i>
3.05 pm	Validated design of a new generation of trickling filters – example of the new, world-wide applicable, set of German design approaches for wastewater treatments plants (EXPOVAL) <i>Dr. Christian-D. Henrich, Director Engineering – ENEXIO Water Technologies GmbH, Germany</i>
3.30 pm	The developing world challenge of faecal sludge management: challenges and opportunities <i>Dr. Sudhir Pillay, Research Manager, Water Research Commission WRC, Pretoria, South Africa</i>
3.55 pm	A green and economic approach towards alum sludge handling <i>M.Sc. Mahmoud Hussein, Water and Wastewater Quality and Environmental affairs Director, Drinking Water Quality Department, Holding Company for water and wastewater HCWW, Kairo, Egypt</i>
4.20 pm	The occurrence and implications of nanoparticles within the waste water systems in sub-Saharan Africa <i>Dr. Benards Okeyo, Head of department of environmental science, Pwani University, Kilifi, Kenya</i>
4.45 pm	DAAD-Alumni Program of the German Federal Ministry for Economic Cooperation and Development BMZ <i>Stefan Bienefeld, Head of Development Cooperation and Transregional Programme, German Academic Exchange Service (DAAD), Bonn, Germany</i>

German Water Partnership

Wednesday, 13th of September, 2017 · 1 pm – 3 pm, Forum I (Hall 5)



German Water Partnership

German Solutions to African Challenges in the Water Sector



Moderation: *Christine von Lonski -General Manager, German Water Partnership, Germany*



1 pm	Introduction <i>German Water Partnership</i>
1.05 pm	German Water Partnership – commitment in Kenia as an example for a cooperation with Africa <i>German Water Partnership</i>
1.20 pm	Recovery of potable water from acid mine drainage in the Johannesburg area <i>LANXESS Deutschland GmbH</i>
1.35 pm	IDESSA Projekt 4.0 <i>GO Systemelektronik GmbH</i>
1.50 pm	Water saving infrastructure for Africa – valuable references from South Africa <i>Pure Rain Technologies Pty Ltd INTEWA SA</i>
2.05 pm	Efficient pumping – a holistic approach <i>HOMA Pumpenfabrik GmbH</i>
2.20 pm	From integrated engineering to integrated operation – digitalization in the water industry <i>Water & Wastewater Siemens AG</i>
2.35 pm	Membrane solutions to African (waste)water solutions <i>MICRODYN-NADIR GmbH, Memcon Pty Ltd</i>
2.50 pm	Discussion/summary

1st University Challenge Africa

Thursday, 14th of September, 2017 · 10.00 h – 14.00 h, Forum II (Hall 5)



POWERED BY DWA & IFAT

Under the Auspices of DAAD (German Academic Exchange Service)

A challenge for the engineering student talents

Come and watch the first University Challenge Africa (UCA). Student teams from African universities prove their skills and compete against each other in the following two activities:

1) IWRM – Integrated Water Resources Management

Infrastructure measures from water management, waste management and energy management have to be combined using DWA environment cards.

2) Reporting

Student teams prove their skills in researching and gathering information at the fair, focusing on a fictitious employer. The accumulated knowledge needs to be applied by writing a reporting with a pre-defined focus. Further information follows on-site.

Awards ceremony: 14.30 – 15.00 h

Prize:

The winning team will participate in the Young Water Professionals' Programme in Munich (Germany) in May 2018. Participation as well as travel costs are sponsored by the Wilo-Foundation.

For further information

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Visit the German Water Industry

German Pavilion/German Water Partnership

Exhibitor German Pavilion – Hall 5

ARJES GmbH		PPU UMWELTECHNIK GMBH	
Armatec FTS GmbH & Co. KG		PUTZMEISTER SOLID PUMPS GMBH	
Buss-SMS-Canzler GmbH		Rädlinger primus line GmbH	
DAAD - Deutscher Akademischer Austauschdienst		Sesotec GmbH	
Düker GmbH		Steinert Elektromagnetbau GmbH	
ENEXIO Water Technologies GmbH		TOMRA Sorting GmbH	
Flottweg SE		TRACTO-TECHNIK UK Ltd.	
Gebr. Bellmer GmbH		URT Umwelt- und Recycling-technik GmbH	
Hermann Sewerin GmbH		WEBER ENTEC GMBH & Co. KG	
KAESER Kompressoren SE		Werner Doppstadt Umwelt-technik GmbH & Co. KG	

Exhibitor German Water Partnership – Hall 5, Stand C 21

Aqseptence Group GmbH		HOMA Pumpenfabrik GmbH	
CONTINENTAL INDUSTRIE GmbH		INTEWA GmbH	
GO Systemelektronik GmbH		LANXESS Deutschland GmbH	

German Pavilion

The Federal Ministry for Economic Affairs and Energy decides on and supports official participations in the Federal Republic of Germany's international trade fairs and exhibition programme.

German Water Partnership

German Water Partnership is a central coordination and contact office of the German water sector serving foreign partners and clients.



Visit DWA at IFAT Africa!



14.09. 10 pm | University Challenge Africa (ICA)

FORUM II

German Pavilion



Exhibition Hall 5

FORUM I

12.09. 4 pm | DWA-Special I
 13.09. 1 pm | GWP: German solutions to African challenges in the water sector
 3 pm | DWA-Special II

Exhibitor German Pavilion – Hall 5