

**SOUTHERN AFRICA & AFRICA 2003**

**ENVIRONMENTAL COURSES**

A series of environmental courses on the new environmental law, implementing environmental management systems and audits, water quality management, environmental risk assessment, air quality management, the legal framework for managing water in South Africa, etc will be held throughout the year by CEM (the Centre for Environmental Management) at the University of Potchefstroom (PU for CHE). Enquiries: Mrs Dydre Greeff/Mrs Madel Lottering.

Tel: (018) 299 2714 or (018) 299 2725.  
Fax: (018) 299-2726.

E-mail: [aokdg@puknet.puk.ac.za](mailto:aokdg@puknet.puk.ac.za) or [aokml@puknet.puk.ac.za](mailto:aokml@puknet.puk.ac.za)  
Website: <http://www.puk.ac.za/education/shortcourses/environment.html>

**WATER TREATMENT  
MARCH 31 - APRIL 2**

The 5<sup>th</sup> WISA Membrane Technical Division (MTD) workshop will be held at the Vaal River Resorts, Gauteng. Enquiries: Dr Andre Maartens, PO Box 2264, Evander 2280  
Tel: 082 326 3820  
E-mail: [amaartens@buckman.com](mailto:amaartens@buckman.com)

**FLOODS  
APRIL 2 - 4**

A three-day short course on floods and stormwater will be held at the Institute for Water and Environmental Engineering, Department of Civil Engineering, University of Stellenbosch. Topics include: River hydraulics and sediment transport, Flood hydrology, Reservoir sedimentation and channel deformation, Dealing with litter, Stormwater and the environment, Road drainage, Coastal flooding and Information technology applications.

Enquiries: Mrs Estelle Hettasch.  
Tel: (021) 808 2100  
Fax: (021) 808 4351  
E-mail: [hettasch@sun.ac.za](mailto:hettasch@sun.ac.za)

**ENVIRONMENTAL MANAGEMENT  
MAY 6 - 8 & OCTOBER 7 - 9**

A short course on environmental management will be held at the Post-Graduate Centre of the University of Pretoria.

Enquiries: Ms Marina Nell.  
Tel: (012) 420 5010.  
Fax: (012) 362 5285.  
E-mail: [marina.ce@up.ac.za](mailto:marina.ce@up.ac.za)

**WATER QUALITY  
MAY 19 - 21**

A course in SASS5 – a rapid method of water quality assessment – will be held at Merry Pebbles in Sabie, Mpumalanga. For more information, see page 31 in this magazine.

**WASTE MANAGEMENT  
MAY 20 - 21**

A short course on waste management will be held at the Post-Graduate Centre of the University of Pretoria.

Enquiries: Ms Marina Nell.  
Tel: (012) 420 5010.  
Fax: (012) 362 5285.  
E-mail: [marina.ce@up.ac.za](mailto:marina.ce@up.ac.za)

**SASAQS/ZSSA  
JUNE 29 - JULY 4**

A joint conference of the Southern African Association of Aquatic Scientists and the Zoological Society of Southern Africa will be held at the University of Cape Town.

Enquiries: Mrs H Battle  
Tel: (021) 650 3603  
Fax: (021) 650 3301  
E-mail: [hbattle@botzoo.uct.ac.za](mailto:hbattle@botzoo.uct.ac.za)  
Website: <http://www.wetandwildlife.uct.ac.za>

**HYDROLOGY  
SEPTEMBER 3 - 5**

The 11<sup>th</sup> South African national hydrology symposium and workshop will be held at the PE Technikon in Port Elizabeth, Eastern Cape. The theme will be: "Water resources in Southern Africa – the future is not what it used to be!"

Enquiries: Juanita McLean.  
Tel: (046) 6224014  
Fax: (046) 622 9427

E-mail: [juanita@iwr.ru.ac.za](mailto:juanita@iwr.ru.ac.za)  
Website: <http://www.ru.ac.za/institutes/iwr/S>

**SANCIAHS2003  
SEPTEMBER 3 - 5**

The 11<sup>th</sup> South African National Hydrology Symposium will be organised by the Department of Civil Engineering, PE Technikon and the Institute for Water Research, Rhodes University and will be held at the PE Technikon, Port Elizabeth. The theme will be "Water resources in Southern Africa - The future is not what it used to be!"

Further details are available from the IWR website (<http://www.ru.ac.za/institutes/iwr/SANCIAHS2003>).  
Enquiries: Juanita McLean  
Tel: +27 (0)46 6224014.  
Fax: +27 (0)46 6229427.  
E-mail: [juanita@iwr.ru.ac.za](mailto:juanita@iwr.ru.ac.za)

**IWA  
SEPTEMBER 14 - 19**

The International Water Association (IWA) will host a regional conference in Cape Town with the theme: *Water as the key to sustainable development in Africa*. Simultaneously with this event, the IWA specialist group on biofilms and the specialist group on health related water microbiology will also be having their international specialist conferences.

Enquiries: Prof TE Cloete, IWSA National Committee.  
Tel: (012) 420 3265  
Fax: (012) 420 3266  
E-mail: [tecloete@postino.up.ac.za](mailto:tecloete@postino.up.ac.za)  
Website: <http://www.iwaconferences.co.za/>

**WATER MICROBIOLOGY  
SEPTEMBER 14 - 19**

An international symposium on health-related water microbiology will be held in Cape Town.

Enquiries: Ms Heidi Botha, Organising Committee, 2003 Cape Town symposium (HRWM), Department of Virology, University of Pretoria, Pretoria.  
Tel: (012) 319 2351  
Fax: (012) 325 5550  
E-mail: [bothah@med.up.ac.za](mailto:bothah@med.up.ac.za)



THE INTERNATIONAL WATER ASSOCIATION (IWA)  
IS PLEASED TO ANNOUNCE:

# INTERNATIONAL WATER CONFERENCES

CAPE TOWN  
14-19 SEPTEMBER 2003

South Africa will host the following conferences on:

- **Water as the key to sustainable development in Africa**
- **Biofilms** (IWA Specialist group)
- **Health Related Water Microbiology** (Specialist group)

We look forward to receiving papers, posters and/or other scientific contributions to the conference, including your presence and active participation.

For more details visit: [www.iwaconferences.co.za](http://www.iwaconferences.co.za)  
email: [tecloete@postino.up.ac.za](mailto:tecloete@postino.up.ac.za)

For handout advertising and exhibition space:  
email: [marian@lantic.net](mailto:marian@lantic.net)



**SOUTHERN AFRICA & AFRICA 2004**

**WATER SUPPLIERS  
FEBRUARY 19 - 24**

The Union of African Water Suppliers (UAWS) will be holding its 12<sup>th</sup> bi-annual African congress in Accra, Ghana. Enquiries: Mr Dennis D Mwanza, Water Utility Partnership (WUP), 05 BP 2642, Abidjan, Cote d'Ivoire. Tel: +225 21 2408 28 Tel (direct line): +225 21 2408 13. Cell: +225 07 0199 01 Fax: +225 21 75 8656/7

**OVERSEAS 2003**

**URBAN WATER SUPPLY  
APRIL 2 - 4**

The 2<sup>nd</sup> international conference on the efficient use and management of urban water supply will take place in Tenerife, Canary Islands, Spain. Enquiries: Efficient 2003, Consejo Insular Aguas de Tenerife, C/Leoncio Rodriguez 7, 2<sup>do</sup> Edificio "El Cabo" 38003 Santa Cruz de Tenerife, Espana. Tel: +34 922 208800 Fax: +34 922 208 863 E-mail: [efficientwateruse@iwatenerife2003.org](mailto:efficientwateruse@iwatenerife2003.org)

**HYDROLOGY  
APRIL 7 - 10**

An international conference on hydrology in the Mediterranean and semi-arid regions will be held in Montpellier, France. Enquiries: Conference 2003, Laboratoire HydroSciences Montpellier, UMR 5569, BP 5045, 34032, Montpellier Cedex, France Tel: +33 4 6714 9020 Fax: +33 4 67149010 E-mail: [montpellier2003@msem.univ-montp2.fr](mailto:montpellier2003@msem.univ-montp2.fr) Website: <http://mpl.ird.fr/montpellier2003>

**WATER RESOURCES  
APRIL 7 - 11**

An international workshop on integrated water resources management will be

held in Denver, Colorado, USA. Enquiries: US Bureau of Reclamation. Tel: 1-303-445-2127 Fax: 1-303-445-6322 E-mail: [Rprincipe@do.usbr.gov](mailto:Rprincipe@do.usbr.gov) Website: <http://www.usbr.gov>

**PEDS 2003  
APRIL 22 - 25**

The first international conference on pumps, electromechanical devices and systems (PEDS) will be held in Valencia, Spain. Main topics will include: pumps and pumping stations in urban water management, pipe characteristics, materials and installation techniques, leak detection, water audit techniques, pressure surges control and urban water systems operation. Enquiries: Dr Enrique Cabrera. E-mail: [gcabrera@gmf.upv.es](mailto:gcabrera@gmf.upv.es) Website: <http://www.iahr.upv.es>

**WATER & DRAINAGE  
APRIL 28 - 30**

This conference and exhibition which addresses the water supply, wastewater and drainage industry will be held in the Putra World Trade Centre, Kuala Lumpur, Malaysia. The theme is "Managing our Resources - the changing value of water". Enquiries: Water & Drainage 2003 Secretariat. E-mail: [melissa@protemp.com.my](mailto:melissa@protemp.com.my) Website: <http://www.water-drainage.com/>

**RIVER BASINS  
APRIL 28 - 30**

The 2<sup>nd</sup> international conference on river basin management will be held in Las Palmas, Gran Canaria, Spain. Enquiries: Stacey Hobbs E-mail: [shobbs@wessex.ac.uk](mailto:shobbs@wessex.ac.uk) Website: <http://www.wessex.ac.uk/conferences/2003/>

**GROUNDWATER  
MAY 2003**

The third international symposium on water resources in karst and hard formations will be held in Esfahan, Iran. Enquiries: Dr A Afrasiabian, Director of National Karst Study and Research Centre, PO Box 15875-3584, Teheran,

I.R. Iran. Tel: +98 21 7520474 Fax: +98 21 7533186. E-mail: [karstsympo2003@yahoo.com](mailto:karstsympo2003@yahoo.com)

**IRRIGATION  
MAY 12 - 15**

The 2<sup>nd</sup> international conference on irrigation and drainage will take place in Phoenix, Arizona, USA. Theme: "Water for a sustainable world - limited supplies and expanding demand. Enquiries: Larry Stephens Tel: 303 628 5430 Fax: 303 628 5431 E-mail: [stephens@uscid.org](mailto:stephens@uscid.org)

**AQUACULTURE  
MAY 19 - 23**

The annual meeting of the world aquaculture society - Aquaculture 2003 - will be held at the Bahia Convention Centre in Salvador, Brazil. Theme - "Realising the potential: Responsible aquaculture for a secure future". Enquiries: Conference Manager. 2423 Fallbrook Place, Escondido, CA 92027, USA. Tel: +1 760 432 4270 Fax: +1760 432 4275 E-mail: [worldaqua@aol.com](mailto:worldaqua@aol.com)

**AQUIFERS  
MAY 28 - 30**

The first international workshop on aquifer vulnerability and risk will be held in Salamanca, Gto Mexico. The aim will be to develop a multidisciplinary network forum for groups working with aquifer vulnerability and risk assessment methodologies. Enquiries: Dr Ramiro Rodriguez. E-mail: [rrdz@tonatiuh.igeofcu.unam.mx](mailto:rrdz@tonatiuh.igeofcu.unam.mx) Website: <http://www.igeofcu.unam.mx/avr03> or <http://www.cotascerca.com/avr03>

**FOREST WASTEWATERS  
JUNE 2 - 4**

The 7<sup>th</sup> international symposium on forest wastewaters will be held in Seattle, USA. Enquiries: Ms Sirpa Sandelin, Satakunta Polytechnic, Centre for Adult & Continuing Education, Tekniikantie 2, FI-28600 Pori, Finland.

Tel: +358 5050 20130  
 Fax: +358 26203 105  
 E-mail: [sirpa.sandelin@tp.spt.fi](mailto:sirpa.sandelin@tp.spt.fi)

### **WATER QUALITY JUNE 9 - 13**

A short course on the design of water quality monitoring networks will be presented in Fort Collins, Colorado, USA.

Enquiries: Thomas G Sanders, Course Director, Department of Civil Engineering, Colorado State University, Fort Collins, CO 80523. Fax: (970) 491 7727  
 Tel: (970) 491 5448  
 E-mail: [TGS@engr.colostate.edu](mailto:TGS@engr.colostate.edu)  
 Website: <http://www.engr.colostate.edu/depts/ce/>

### **AWWA 2003 JUNE 15 - 19**

The American Water Works Association will hold its annual conference and exhibition in Anaheim, California. Membership in AWWA is not a requirement for presentation.

Enquiries: AWWA, 6666 W. Quincy Ave., Denver, CO 80235  
 Tel: 303 794 7711  
 Fax: 303 794 3951  
 Website: <http://www.awwa.org>

### **WATER POLLUTION JUNE 18 - 20**

The 7<sup>th</sup> international conference on modelling, monitoring and prediction of water pollution will be held in Cadiz, Spain.  
 Enquiries: Rachel Green, Conference Secretariat, Wessex Institute of Technology, Ashurst Lodge, Ashurst, Southampton, SO40 7AA  
 Tel: 44 (0) 238 029 3223  
 Fax: 44 (0) 238 029 2853  
 E-mail: [rgreen@wessex.ac.uk](mailto:rgreen@wessex.ac.uk)

### **WASTEWATER JUNE 23 - 25**

An international conference on wastewater sludge as a resource will be held in Trondheim, Norway.  
 Enquiries: Prof Hallvard Odegaard, Dept of Hydraulic and Environmental Engineering, N-7034 Trondheim, NTNU.  
 Tel: +47 73 594759

Fax: +47 73 590 544  
 E-mail: [hallvard.odegaard@bygg.ntnu.no](mailto:hallvard.odegaard@bygg.ntnu.no)

### **WATERSHED MANAGEMENT JUNE 29 - JULY 3**

An international conference on Watershed management for water supply systems will be held by the American Water Resources Association (AWRA) in New York City, New York, USA. Topics will be from the fields of science and technology, policy and management and education and outreach.  
 Enquiries: Peter E Black, Organising Chair, SUNY College of Environmental Science and Forestry, Syracuse, NY 13210 USA

Tel: 1(315) 470 6571  
 E-mail: [pebchair@esf.edu](mailto:pebchair@esf.edu)  
 (or [bestweb.net](http://bestweb.net))

### **ROCK DRAINAGE JULY 12 - 18**

The 6<sup>th</sup> international conference on acid rock drainage (6<sup>th</sup> ICARD) with the theme "Application and Sustainability of Technologies" will be held in Cairns, North Queensland, Australia.

Enquiries: Ms Miriam Way, Events Manager, The AusIMM, PO Box 660, Carlton South VIC 3053 Australia  
 Tel: 61 3 9662 3166  
 Fax: 61 3 9662 3662  
 E-mail: [miriam@ausimm.com.au](mailto:miriam@ausimm.com.au)

### **ACTIVATED SLUDGE JULY 28 - AUGUST 1**

The 14<sup>th</sup> annual short course on the methodologies and laboratory techniques to generate process control parameters for operating an activated sludge process will be held in Estes Park, Colorado.

Enquiries: Thomas G Sanders, Course Director, Department of Civil Engineering, Colorado State University, Fort Collins, CO 80523  
 Fax: (970) 491 7727  
 Tel: (970) 491 5448  
 E-mail: [TGS@engr.colostate.edu](mailto:TGS@engr.colostate.edu)  
 Website: <http://www.engr.colostate.edu/depts/ce/>

### **BASIN MANAGEMENT AUGUST 17 - 22**

The 7<sup>th</sup> international conference on diffuse pollution and basin management will be held in Dublin, Ireland.

Enquiries: IWA Conference Secretariat, Centre for Water Resources Research, Civil Engineering Department, University College Dublin, Earlsfort Terrace, Dublin 2, Ireland  
 Tel: 00 353 1 7167 499  
 Fax: 00 353 1 7167399  
 E-mail: [dipcon@ucd.ie](mailto:dipcon@ucd.ie)  
 Website: [www.ucd.ie/~dipcon/dipcon.htm](http://www.ucd.ie/~dipcon/dipcon.htm)

### **BIOFILM SYSTEMS SEPTEMBER 2003**

The 5<sup>th</sup> international conference on biofilm systems will be held in Noordwijkerhout, the Netherlands.

Enquiries: Mark van Loosdrecht, TU-Delft, Julianalaan 67, 2628 BC Delft, the Netherlands.  
 Tel: +31 15278 1618  
 Fax: +31 152 78 2355  
 E-mail: [m.c.m.vanloosdrecht@tnw.tudelft.nl](mailto:m.c.m.vanloosdrecht@tnw.tudelft.nl)

### **WASTEWATER PLANTS SEPTEMBER 1 - 4**

The 9<sup>th</sup> conference on the design, operation and costs of large wastewater treatment plants will take place in Prague, Czech Republic.

Enquiries: Prof Dr Jiri Wanner, Dept of Water Technology and Environmental Engineering, Prague Institute of Chemical Technology, Technicka 5, CZ-166 28 Praha 6, Czech Republic.  
 Tel: +420 2243 53149.  
 E-mail: [jiri.wanner@vscht.cz](mailto:jiri.wanner@vscht.cz)

### **IRRIGATION SEPTEMBER 1 - 5**

The 4<sup>th</sup> international symposium on irrigation of horticulture crops will be held in Davis, California, USA.

Enquiries: Conference & Event Services, One Shields Avenue, Davis, CA 95616, USA.  
 Fax: (530) 752 5791  
 Website: <http://www.cevs.ucdavis.edu>