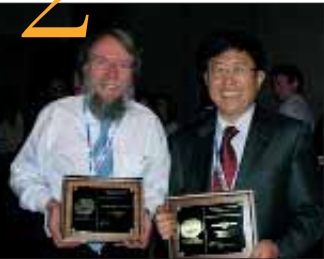


# Member Newsletter

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## News update from IWA Executive Director, Paul Reiter

October proved to be an extremely busy and successful month for IWA with a number of significant meetings held in Oaxaca, Mexico. These meetings culminated with a day long meeting of the Governing Board – the key decision forum for the Association – which was held on Friday 7th October. I will set out in this update the main outcomes from that series of meetings.

### The Oaxaca Programme of Events

Oaxaca is located in Central Mexico, less than 50 minutes flying time south of Mexico City. The Association scheduled a series of meetings there at the invitation of Ms Blanca Jimenez who is an Executive Committee member and member of the Mexican National Committee. The programme consisted of:

#### Monday & Tuesday

- Executive Committee Meeting

#### Wednesday

- Utilities Workshop
- Council of Distinguished Water Professionals Meeting
- Programmes Committee Meeting

#### Thursday

- Strategic Council

#### Friday

- Governing Board

We were extremely pleased to be able to lead a symposium on water issues on Tuesday and Wednesday involving local government representatives, utility representatives, academics and students.

### IWA President Elect: Dr David Garman



I am pleased to be able to announce that the Governing Board has elected Dr David Garman of Australia as the Association's President Elect. Dr Garman was elected as Senior Vice President of the Association in September 2004 and has had a long and active history in IWA affairs and in the water industry generally. He is the Executive Director of Environmental Biotechnology Co-operative Research Centre in Sydney, Australia.

David will take over from our current President, Professor Laszlo Somlyódy, during IWA's World Water Congress in Beijing in September 2006.

### World Water Congress 2006

Work is continuing on preparing for the IWA Biennial Congress and Exhibition that will take place in Beijing 10-14 September 2006. The Chinese Organising Committee recently conducted a warm up event at the Beijing International Congress

Centre. The First International Conference for China Urban Water Development drew around 1500 delegates, with invited speakers from around 20 countries.

The IWA Programme Committee is now commencing the task of reviewing around 1600 papers that have been submitted for the Congress. We are all indebted to the hard work of the Programme Committee and the referees, together with the London Secretariat support team who ensure we maintain a reputation for a high quality and valuable programme at our Congress.

### Beyond 2006: Vienna 2008 and Congratulations Montreal 2010

We are of course already looking beyond the 2006 Congress. The Austrian National Committee, together with our friends in Vienna, have already started work for the 2008 IWA Congress in Vienna.

I am also pleased to be able to announce that Montreal has been selected as the venue for the 2010 IWA Congress. At the Governing Board meeting, Mexico City and Montreal – the two contending cities of the 2010 Congress – decided to harmonise their proposals. This involved the proposition that an IWA Regional Congress be held in Mexico City in 2009, focusing primarily on Latin American water issues, followed by the IWA World Water Congress in Montreal in 2010. Congratulations must go to Ms Blanca Jimenez and Mr Peter Jones for their collaboration and insight in

## News update (continued from front page)

coming forward with this very exciting proposal.

### IWA Governance and Legal Structure

In order for IWA to continue to meet legal requirements, an internal review was initiated early in 2005 and some changes to the Association's legal structure are warranted. :

IWA is currently established as both a company (the charity) and an unincorporated entity sitting side by side – these two entities will be brought together as one single entity.

Rationalising our constituent documents which are currently contained in both the constitution and a Memorandum and Articles of Association.

Clearly defining the respective roles and responsibilities of the Governing Board and the Executive Committee. There may also be some minor name changes to these two bodies to better reflect their contemporary roles.

A final draft proposal will be submitted to the IWA Governing Members meeting in Beijing in 2006 for final approval. Legal advice is being taken by the Association on the preparation of the necessary changes and comments will be sought on them over the coming months.

### The Strategic Council

The Council covered a number of important issues including management of Specialist Groups, consideration of the 2006 to 2010 strategic plan and the formulation of policy positions. There was a strong feeling amongst the Council that if IWA was to truly be the world voice on water issues it needed to be able to present policy positions on key global issues. A formal policy paper based on material submitted to the meeting is now being prepared which will



Gerard Payen

ensure that IWA is able to develop sound and well supported policy positions on these critical global issues.

The Strategic Council also elected its first Vice Chairman. Gerard Payen of France who is well known to many IWA members was the successful candidate.

### Utilities

The utilities workshop was a well attended and vibrant event. One of the key outcomes of the workshop was the formation of IWA Utilities; a loose grouping within the Association dedicated to delivering a programme of activities

and events that is relevant to utilities. Three key events are on the Utilities agenda for the next twelve months:

- A utilities meeting at WasserBerlin in April 2006
- A further utilities leaders meeting to be held in Singapore in May 2006
- These will be followed by a series of workshops and activities at the Beijing Congress in September 2006.

For the first time it has also been agreed that time will be made available during these utilities events for public utilities to meet privately so that they may cover issues unique to their segment. More on page 7.

### Other Developments

#### The Council of Distinguished Water Professionals

The Council of Distinguished Water Professionals held its second meeting in Oaxaca. Co-chaired by Peter Wilderer and Jerry Gilbert, this group is eager to provide the benefit of its expertise and insights in areas such as joint meetings with young professionals and the provision of advice on key issues.

#### Announcement of New Global Award Programme for Project Innovation

This programme will recognise the enterprise and initiative of utilities consultants, applied researchers and equipment manufacturers and will be launched shortly with the first awards to be made in 2006.

**Paul Reiter**

**Executive Director**

## IWA Members win AEESP Outstanding Paper Award

IWA Members, Mooyoung Han and Desmond F. Lawler have received the prestigious Association of Environmental Engineering and Science Professors (AEESP) Outstanding Paper Award.

This award is given annually to recognize the authors of a landmark environmental engineering paper that has withstood the test of time and significantly influenced the practice of environmental engineering ([www.aeesp.org](http://www.aeesp.org)).

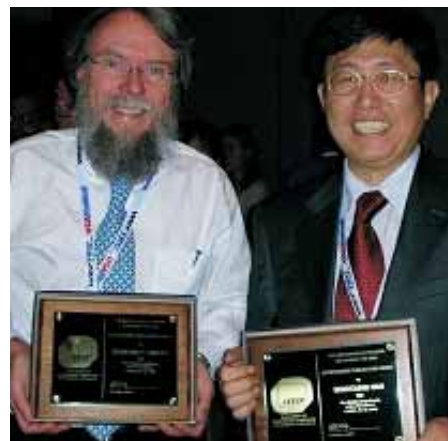
The paper by Han and Lawler, entitled "The (Relative) Insignificance of G in Flocculation" (J. of Amer. Water Works Assoc., v.84, #10, pp79-91, 1992), challenged the prevailing theory of how particles collide to form flocs, and suggested that flocculation tanks

should be designed differently.

Mooyoung Han is Professor, College of Engineering, School of Civil, Urban & Geosystem Eng., Seoul National University. He has been a member of IWA for 15 years including the period of IWSA membership. He is Secretary of the IWA Specialist Group on Particle Separation. He is also leading the IWA Rainwater Harvesting Task Force.

Desmond F. Lawler is Professor at the Department of Civil and Environmental Engineering at University of Texas, Austin. He was academic advisor of Han's Ph.D thesis.

The presentation was made at the recent WEFTEC conference that took place in Washington DC. (Oct 31, 2005)



IWA Members Desmond F. Lawler and Mooyoung Han

# 2006 Membership Renewal

The IWA Membership Team has been preparing for the 2006 membership renewal process over the last two months. We are constantly exploring ways to improve communications with our members and the benefits they receive as part of their membership package. In 2005 we offered members the opportunity to renew their membership for more than one year, with 15% individual and 10% corporate members taking up the offer. We hope many more will renew their membership for multiple years in 2006.

IWA will be introducing the following

changes to the current member benefits packages in 2006:

- As from January 2006, individual members are allowed to subscribe to both 'Water Research' and 'Water, Science and Technology' as their two discounted journals
- Small corporate members will receive one free journal and no longer have the option to subscribe to journals at the individual membership rate

IWA has substantially revised the 'Premium Membership' scheme and renamed it to the

Global Development Challenge Fund; this is in line with the Association's development of a dedicated programme for outreach and regional development. Please contact Darren Saywell, Regional Director, [darren.saywell@iwahq.org.uk](mailto:darren.saywell@iwahq.org.uk) for further information.

## Renew Online Today!

We want to encourage our members to renew their membership online at the following link [www.portlandpress.com/iwa/renewal.cfm](http://www.portlandpress.com/iwa/renewal.cfm) and to ensure that IWA has their correct contact details, by sending any updates to [members@iwahq.org.uk](mailto:members@iwahq.org.uk).

## 2006 IWA Membership Fees

INDIVIDUAL MEMBERSHIP RATES								
Membership Type	High Income Countries				Low Income Countries			
Individual (1yr - 2006)	£50	\$96	€76	JPY 10,400	£15	\$29	€23	CNY 230
Individual (2yr - 2006-2007)	£100	\$192	€152	JPY 20,800	£30	\$58	€46	CNY 460
Individual (3yr - 2006-2008)	£150	\$288	€228	JPY 31,200	£45	\$87	€69	CNY 690
Student/Retired (1yr - 2006)	£25	\$48	€38	JPY 5,200	£10	\$19	€15	CNY 110
Student/Retired (2yr - 2006-2007)	£50	\$96	€76	JPY 10,400	£20	\$38	€30	CNY 220
Student/Retired (3yr - 2006-2008)	£75	\$144	€114	JPY 15,600	£30	\$57	€45	CNY 330

CORPORATE MEMBERSHIP RATES								
Membership Type	High Income Countries				Low Income Countries			
Small (1yr - 2006)	£300	\$570	€455	JPY 62,420	£150	\$285	€227	CNY 2,310
Small (2yr - 2006-2007)	£540	\$1,027	€819	JPY 112,360	£270	\$513	€409	CNY 4,160
Small (3yr - 2006-2008)	£810	\$1,540	€1,228	JPY 168,530	£405	\$770	€614	CNY 6,240
Medium (1yr - 2006)	£750	\$1,426	€1,137	JPY 156,040	£375	\$713	€568	CNY 5,770
Medium (2yr - 2006-2007)	£1,350	\$2,567	€2,047	JPY 280,870	£675	\$1,283	€1,023	CNY 10,390
Medium (3yr - 2006-2008)	£2,025	\$3,850	€3,070	JPY 421,300	£1,013	\$1,925	€1,535	CNY 15,580
Large (1yr - 2006)	£1,700	\$3,233	€2,577	JPY 353,680	£850	\$1,616	€1,289	CNY 13,080
Large (2yr - 2006-2007)	£3,060	\$5,819	€4,639	JPY 636,620	£1,530	\$2,909	€2,319	CNY 23,550
Large (3yr - 2006-2008)	£4,590	\$8,728	€6,958	JPY 954,940	£2,295	\$4,364	€3,479	CNY 35,320
Institution (1yr - 2006)	£750	\$1,426	€1,137	JPY 156,040	£750	\$1,426	€1,137	CNY 11,540

## New IWA Corporate Members

The following organisations have recently joined IWA as corporate members:

### Danish Water Forum, Denmark

DWF is a network of Danish water organisations aimed at highlighting expertise and knowledge and facilitating concerted actions. [www.danishwaterforum.dk](http://www.danishwaterforum.dk)

### Dive Solutions, South Africa

Dive Solutions provides a complex & diverse range of underwater services to its civil and marine clientele in offshore, coastal & inland dive

locations around the world. [www.divesolutionssa.com](http://www.divesolutionssa.com)

### Goulburn Murray Water, Australia

Goulburn-Murray Water manages water storage, delivery and drainage systems, involving 70% of Victoria's stored water. [www.g-mwater.com.au/](http://www.g-mwater.com.au/)

### Greater Moncton Sewerage Commission, Canada

The GMSC has a long-term planning process and strategy to ensure that its treatment process and recycling operations evolve in a fiscally

responsible manner and encompass sound environmental objectives. [www.gmsc.nb.ca](http://www.gmsc.nb.ca)

### Institute for Global environmental Strategies (IGES); Japan

The Institute for Global Environmental Strategies (IGES), is a research institute that conducts innovative strategic policy research to support sustainable development in the Asia-Pacific region. [iges.or.jp/en/fw/index.html](http://iges.or.jp/en/fw/index.html)



## New corporate members (continued from previous page)

### Myron L Company, USA

Myron L Company has established itself as the leading manufacturer of high quality, simple to operate, yet low cost, conductivity and pH instrumentation for municipal, commercial and industrial water quality control, chemical concentration testing and process control. [www.myronl.com](http://www.myronl.com)

### National Institute for Rural Engineering, Japan

NIRE's work includes tests, research, studies, analyses, and appraisals concerning technologies related to agricultural engineering, in addition to training programs, and technical supports for administrative projects in terms of research on techniques for development, management and conservation of water resources for agriculture.

[www.nkk.affrc.go.jp](http://www.nkk.affrc.go.jp)

### Safloc S.L., Spain

Safloc specialises in Wastewater treatment using the most advanced techniques available. [www.safloc.com/](http://www.safloc.com/)

### SAMA Consulting Engineers, Iran

SAMA Corp. provides its customers with innovative water and utility technology solutions to improve their performance. Our services extend from water supply network design and modeling to NRW reduction and GIS. [www.samacorp.com](http://www.samacorp.com)

### SIAAP, France

Since 1970, SIAAP has cleaned the water used by the 8 million inhabitants within the

catchments area of the rivers Seine and Marne. SIAAP treats and transports up to 3 million cubic meters of water every day in its 4 purification plants. [www.siaap.fr](http://www.siaap.fr)

### X-Flow B.V., Netherlands

X-Flow is one of world's leading companies in the development and supply of innovative membrane technology to the global municipal and industrial markets. [www.xflow.nl/](http://www.xflow.nl/)

### Yarra Valley Water, Australia

Yarra Valley Water exists to provide water and sewerage services that contribute to the health and well being of its Customers and the Environment. [www.yvw.com.au](http://www.yvw.com.au)

## Update on the IWA Young Water Professionals Programme



*Recognising excellence in the water sector*

The Young Water Professionals Programme provides professional development and networking opportunities to young professionals and students in the water and wastewater sector under the age of 35.

### IWA Professional Development Award

This new award will recognise companies in the water sector that are making a significant contribution to the professional development of young employees (under the age of 35). The award seeks nominations of companies by young water professionals who have experienced significant support from their employer in developing their career. The award will be presented at the IWA World Water Congress in Beijing, 10-14 September 2006.

For full details and to download a nomination form, please visit the Young Water Professionals website at [www.ywp.iwahq.com](http://www.ywp.iwahq.com)

### IWA Career Fair

The Young Water Professionals Programme is organising a career fair to be staged at the Beijing Congress. A Careers Fair offers the opportunity for young water professionals to meet a range of industry recruiters, to establish new contacts, ask specific questions and improve their career prospects. Staging this event at the IWA World Water Congress will provide a global platform for young water professionals to interact with a broad range of large employers. For more information about participating in the fair – both employers and young water professionals – please visit the young water professionals programme website or email [Tom.Williams@iwhq.org.uk](mailto:Tom.Williams@iwhq.org.uk)

### Young Researchers Conference

**3rd Biennial Young Researchers Conference, Singapore May 24-26, 2006**

The call for papers has now closed and the

review process is underway. We have received 205 submissions from 47 countries, which compares to 129 papers from 39 countries from the 2004 event. Authors will be notified of the review outcomes in the next month.

The 1st German Young Researchers Conference took place in Aachen October 27-28. The event was focused on Emerging pollutants and technologies and attracted over 60 delegates who enjoyed high quality platform and poster presentations. Preparations for the 2nd German Young Researchers Conference for 2007 are now underway. Thank you to all involved in the organisation of this event.

### Upcoming National Young Researchers Conferences

1st Australian Young Researchers Conference, New South Wales, February 15-17 2006

7th United Kingdom Young Researchers Conference, Bath, April 4-5 2006

For more information regarding Young Researchers Conferences, please see [www.ywp.iwahq.org.uk](http://www.ywp.iwahq.org.uk)

## Still time to nominate for the Prince Sultan prize – deadline 31 December 2005

This prize seeks to reward the best work of researchers in water resources. The Prize is especially intended for those seeking to solve the problems of arid or semi-arid regions. An award of \$133,000 will be made in each of five branches: Surface Water, Ground Water, Alternative (non-traditional) Water Resources,

Water Resources Management, Protection of Water Resources. Nomination information can be obtained from:

**Prince Sultan Bin Abdulaziz International Prize for Water**

**General Secretariat, Prince Sultan Research**



**Center for Environment, Water & Desert  
King Saud University, P. O. Box 2454, Riyadh  
11451, Kingdom of Saudi Arabia**

**Phone: +966 1 467 5571, Fax: +966 1 467 5574 E-Mail: [info@psipw.org](mailto:info@psipw.org),  
[www.psipw.org](http://www.psipw.org)**

# Supporting IWA's regional development



For 2006, IWA will be substantially revising and renaming the 'Premium Membership' scheme, in line with the Association's development of a dedicated programme for regional development in low, middle and transitional income countries. Membership renewal forms will allow contributions to the Global Development Challenges Fund, enabling individual, corporate and governing members to support a practical and concrete programme of engagement in these countries.

In return for bronze, silver or gold level contributions to the Global Development Challenges Fund, IWA has revised the available benefits that might appeal to contributors. This will include, inter alia:

- Special invitations to IWA's London office for tailor made briefings;
- Media and communication activities to recognize significant contributors;
- Marketing and branding opportunities, such as sponsorship of events or particular projects within IWA;
- Advisory mechanisms - helping to steer the work of the Association on outreach; and
- Receipt of dedicated, tailor made products, including an Annual Report on activities and progress.

These contributions will then be dedicated to IWA's programme on regional development, which is now operational. This programme is guided by three phases of development – first a needs assessment of how and where IWA can add value; secondly, a process of developing IWA's capacity to engage (through raising awareness of the programme, engaging across IWA's members) and thirdly, to deliver a suite of activities that will make a tangible difference on the ground. Typically, these activities will include

events, knowledge products, communications and local forms of action.

Recent examples of projects underway or completed point to the range of subjects and opportunities for member engagement in this programme. Examples include:

#### At the international level:

- Supporting the development of new governing members, such as Pakistan and Colombia,
- Events: IWA's role as a beacon leader on science and technology in the 4th World Water Forum, Mexico, March 2006
- UNICEF's request for IWA to update its



existing technology database into a more comprehensive technology compendium

#### At the regional level:

- ...in Central and Eastern Europe
- A strategy to support development of events ahead of the Vienna Biennial Congress in 2008
- ...in Africa
- A policy level forum focusing on the management and technical issues associated with faecal sludge management (supported by UNHABITAT)
- Local action methodology development in eastern and southern Africa
- ...in Latin and Andean America
- Development of plans for an experimental reference centre to support expansion in the sub-region
- ...in South Asia
- Completion of a post-disaster response & recovery framework document, based on experiences post-Asian Tsunami, 2004
- Positioning IWA's members and expertise at the forthcoming South Asian Ministerial Conference on Sanitation (March 2006)
- Engaging IWA specialist group members in the IWWA Ecological Sanitation conference, Mumbai, November 2005

For further information about the work of IWA's Challenges Fund and regional development programme, and why you should be part of the collective IWA contact [darren.saywell@iwahq.org.uk](mailto:darren.saywell@iwahq.org.uk) or telephone the London office on +44 207 654 5542.

## 60 Second Interview Series – Peter Wilderer

Peter A. Wilderer served at the Technical University of Munich, Germany as professor and director of the Institute of Water Quality Control and Waste Management from 1991, but retired from this position in 2004. Since then he has taken charge of the Institute of Advanced Studies on Sustainability of the European Academy of Sciences and Arts.

He joined IWA in 1968 as a PhD student. Over the years he served IWA in various functions, as member of the Scientific and Technology Committee, for instance, as chairman of the specialist group on Small Wastewater Treatment Systems, as editor of the journal *Water Research* and as editor-in-chief of the "Water Science and Technology" journal. More recently, he was appointed as co-chairman of the newly established IWA Council of Distinguished Water Professionals (CDWP).

### What do you consider to be the most significant recent change in your field of expertise to have occurred in the last 10 years?

Among the many advances which have been achieved over the past ten years three have had the greatest impact: membranes for solid-liquid separation, mathematical models combined with numerical simulation as research, design and operation tools, and the concept of decentralization which from my point of view is based on the recognition of the value of wastewater as a source.

### What do you consider to be the most significant future challenge that

### professionals must deal with in the next 10 years?

We are facing – worldwide - rapid urbanization caused by migration from rural areas to cities and from underdeveloped countries to developed ones. With the associated growth in population size, the demand for safe drinking water is increasing proportionally, and this will have to be provided from sources that are limited in size. In turn, with the increase in water consumption and related increases in the amount of wastewater generated, the need for building and operating sewers and wastewater treatment facilities increases, causing tremendous financial impacts to taxpayers, and on the carrying capacity of receiving waters in and downstream of metropolitan areas. The outcome of this situation is that investments have to be made within a very short period of time to avoid destabilizing urban societies. The traditional concept of urban water supply and sanitation appears to lack suitability in solving these local requirements within the time given. It must be substituted by novel means and concepts. Decentralization, rigorous application of membrane technology, computer aided supervision and control, recovery of safe water from wastewater, and water reuse are all possible answers which will gain increasing importance.

### Whom do you consider to be the leading experts in your field, outside of your own organization, and why?

Considering the dimension of the problems we are facing, I doubt that individuals will play a leading role in future. The future belongs to multi- and trans-disciplinary teams. Not only that engineers must listen and cooperate closely with chemists, microbiologists, administrators, law scientists and economists but that strengthened collaboration is needed between the social sciences and with civil society. The European Union Commission recognized the need for entering into this new area of urban water management by establishing the Water Supply & Sanitation Technology Platform ([www.wsstp.org](http://www.wsstp.org)) of which IWA is a prominent member. I advise my colleagues around the world to watch closely the

work done within WSSTP, and to contribute with both a critiques and with optimism to the various proposals suggested.

### Which report, product or service from your organization deserves more attention and why?

As a member of the European Academy of Sciences and Arts, my contribution to the discussion on problems and solutions in urban water management goes beyond the spectrum of engineering sciences. Our approach is to provide platforms for intensive inter- and trans-disciplinary dialogues. A workshop held in 2003 dealt with the impact of local cultures on global sustainability, addressing a new perspective for science and engineering, economics and politics (Wiley-VCH Publisher, ISBN 0-470-85608-4). Currently in preparation is a workshop on the importance of education and training for promotion of sustainability, to be held in February 2007. In fact, this workshop will start in November 2005 with the presentation of impulse statements by its members, and will be discussed through Internet based conferences in coming months.

Based on the common understanding gradually evolving, no formal presentation will be given during the 2007 workshop; rather the two and half day meeting in a Northern Bavarian monastery will be used for dialogues and contemplation only. The results of the discussions will eventually be published in the form of a book. I strongly believe that this type of workshop will provide very valuable guidelines for the design of our common future.

### In what ways would you like to see IWA change in the next 5 years?

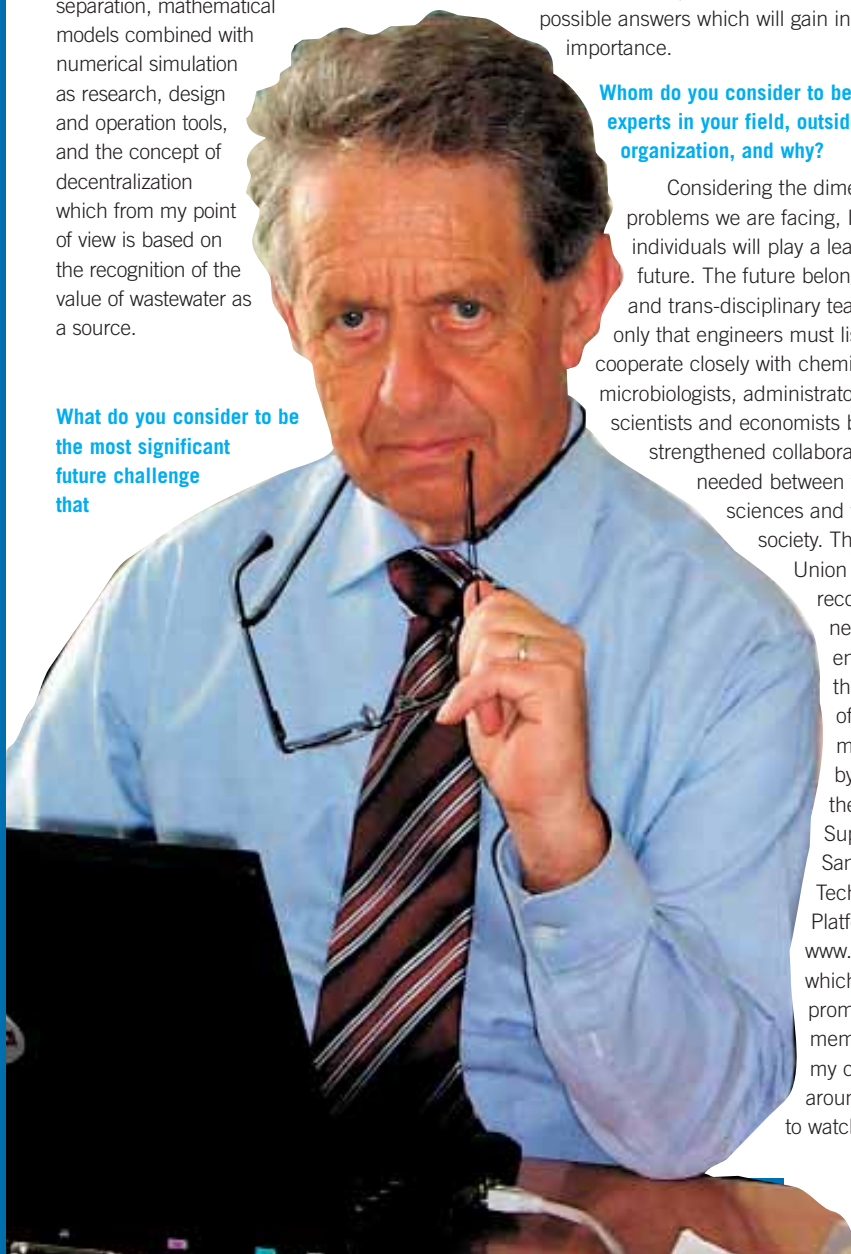
The strength of IWA stems from its members; their expertise and dedication. To take advantage of the wealth of membership expertise, it will be necessary to provide members with an environment for listening to each other, and drawing concepts and decision from dialogues. Large conferences are a good opportunities for members to meet and to talk to each other, but the exchange of thoughts and wisdom requires rather smaller events. I would be happy if the "old" concept of small specialized conferences, workshops and task groups could be re-invented and prioritized by IWA management, and if sponsors could become active in co-financing such important group work.

### Contact points

**Prof. i.R. Dr.-Ing. Dr. h.c. Peter A. Wilderer**  
**Institute of Advanced Studies on Sustainability**  
**Moosweg 5, 83727 Schliersee, Germany**

**Email:** [peter@wilderer.de](mailto:peter@wilderer.de); [paw@bv.tum.de](mailto:paw@bv.tum.de)

**Internet:** [www.advances.de](http://www.advances.de)





# Launch of IWA Utilities

A comprehensive series of activities is planned for the coming year that will be of particular relevance to Utilities, their people and to all our other members with an interest in utilities management and operation.

Utilities are an important and integral part of the IWA family. IWA Utilities has been established to ensure that utilities – public and private – have a forum to share common issues, present a voice on global matters and deliver a challenging and practical programme.

## IWA's Programme of Events and Activities

IWA offers a wide range of programmes supporting Utilities. These include: Specialist Groups on topics relevant to utilities' activities; an extensive conference programme, which culminates in the World Water Congress, next held in Beijing in 2006; taskforces and special projects on technical or operational issues; and reports and publications on a full range of utility and other matters, among other things.

## Dedicated Utility Activities

IWA Utilities offers a programme of initiatives to provide an additional focus for services to individual and corporate utility members and to enhance networking opportunities for all those involved with or interested in utilities matters. IWA Utilities will be of particular interest to utility leaders, managers and practitioners.

## What does IWA Utilities include?

As with any IWA programme, IWA Utilities will be driven by its members. Utility representatives, regulators, governments and others will value both the IWA Utilities



Programme as well as the other benefits and opportunities within the association:

- A programme of dedicated meetings and events in 2006 for CEOs and utility leaders that include:
- Utility Leaders Meeting at Wasser Berlin, April 2006
- Utility Leaders Meeting in Singapore, May 2006 (immediately prior to the Young Researchers Conference)
- Workshops and Meetings complementing the Biennial Congress in Beijing, September 2006

The Berlin and Singapore Meetings will comprise open sessions and the opportunity to network privately. Regionally based, they will offer global perspectives:

- Linkages with and between national utility associations to add an international perspective and regional and international connections
- Opportunities for utility representatives to take roles in the governance of IWA through its various committees.

Specialist Groups focused on utility matters: Statistics & Economics; Efficient Operations & Management of Urban Water Systems; Marketing & Communications; Design, Operation & Maintenance of Drinking Water Treatment Plant, and new groups are under way dealing with Institutional Governance & Regulation; Strategic Asset Management; Procurement and Water Security

Specific publications such as WAMI (Water Asset Management International) and WUMI (Water Utility Management International) in addition to IWA Publishing's other highly respected journals

## How to get involved

We welcome both Corporate and Individual members. For further information contact the London office by telephone or at [members@iwahq.org.uk](mailto:members@iwahq.org.uk)

For specific queries on IWA Utilities or the Utilities Programme, contact Tom Mollenkopf, IWA Deputy Director on the number below or at [tom.mollenkopf@iwahq.org.uk](mailto:tom.mollenkopf@iwahq.org.uk),

Web: [www.iwahq.org.uk](http://www.iwahq.org.uk)  
Telephone: +44 207 654 5500



# Krakow Conference Report

## Nutrient Management in Wastewater and Recycle Streams, Krakow, Poland, September 2005

Two IWA Specialist Groups - Nutrient Removal and Recovery and Design, Operation and Costs of Large Wastewater Treatment Plants Group - got together to organize this successful conference. The conference was chaired by Prof. Jan Oleszkiewicz, University of Manitoba, Canada and organized on behalf of IWA by LEMTECH Consulting and with the support of the Polish Association of Water and Wastewater Plant Operators (PZITS), Poznan Technical University and the University of Manitoba, Canada.

The conference objective was to transfer the most appropriate technology to the new EU accession countries, which are on different levels of advancement in meeting the European Union

effluent quality requirements. The meeting has succeeded in bringing the participants to mix and greet with the established experts, scientists, consulting engineers, municipalities and governmental decision makers from 38 countries and from the EU headquarters.

The emphasis of the conference was on highlighting technologies that generate sound environmental and economical results. The attendees heard about the emission standards as currently implemented in EU and about emission standards – which often lead to application of the best available technology. Through the discussion of the complex issues the participants were made aware of the need for total waste management within the entire watershed.

The ancient City of Krakow was outstanding in providing the magic atmosphere for participants to relax and enjoy the after hours the

world's oldest Salt mine Wieliczka, magnificent buildings of sacral institutions and mansions, number of romantic castles, scene of jazz, bistros and fine restaurants.

## IWA Poland

IWA Executive Director, Paul Reiter, also attended the conference. While there he had discussions with Professor M Gromiec of the Institute of Meteorology & Water Management, Warsaw, about creating a renewed IWA Governing Members Committee in Poland. This is particularly relevant now with the rapid changes and developments that are now taking place in Poland. The proposed new IWA Poland committee will include representation of all water interests to include all water interests to include representatives from: regulators, utilities, researchers consultants industry and Equipment manufactures.

# Process Benchmarking – Opportunity to Participate

An important opportunity exists for IWA Utilities members to join in a major benchmarking project enabling participating utilities to see how their performance measures up against some of the world's most innovative authorities. The project is managed by the Water Services Association of Australia (WSAA) and is focused on comparison of the most significant drivers of cash cost in the industry. The first component of the rolling programme proposed by WSAA is on Mechanical and Electrical Maintenance. This project will be carried out by one of the world's leading consulting firms.

The benchmarking exercise includes a qualitative and a quantitative analysis of processes employed in the industry to achieve the service levels required. The quantitative phase examines the cost and service levels for each of these activities. After those data are compiled, interviews are conducted with

participating utilities to get an understanding of the processes that they undertake to deliver the level of service at that particular cost. Analysis is then undertaken to identify themes that explain the cost/service level trade-offs employed by the participating utilities.

As mentioned, the current project examines Mechanical and Electrical Maintenance. It is proposed that the future rolling programme include:

**2007 – Customer Service**

**2008 – Asset Management**

**2009 – Civil Maintenance**

Process benchmarking undertaken by WSAA in previous years initially included only WSAA members (the 15+ largest utilities in the country). As WSAA has expanded so too has the scope of the benchmarking exercise, such that the current round of benchmarking is likely to include

international utility companies from the United States, New Zealand, Canada and Europe.

The opportunity to participate in the process benchmarking exercise is a component of the recently announced IWA Utilities initiative, through which IWA will extend programmes specifically directed to the utilities segment of its membership. Participation in the process benchmarking exercise is open to all IWA Utility members. There is a cost to participation, but case studies based on previous exercises show that significant benefits accrue to participants through the opportunity to identify key cost drivers, their effectiveness compared to the levels of service demanded and the performance of other utilities.

IWA will shortly write to all Utility members with more information. In the meantime, further details are available from IWA Director, Member Services and Programmes, Andrew Speers at [andrew.speers@iwahq.org.uk](mailto:andrew.speers@iwahq.org.uk)

## Two New IWA Task Groups launched

IWA is pleased to announce the formation and endorsement of two new IWA Task Groups on "Guidelines for Use of Activated Sludge Models" and "Benchmarking of Control Strategies for Wastewater Treatment Plants". Both task groups will have a three-year programme and expect to produce IWA Scientific and Technical Reports on the completion of their work.

### Benchmarking of Control Strategies for Wastewater Treatment Plants

[www.iwahq.org.uk/template.cfm?name=bg\\_benchmarking\\_control\\_strategies](http://www.iwahq.org.uk/template.cfm?name=bg_benchmarking_control_strategies)

This task force falls within the activities of the IWA Specialist Group on Instrumentation Control and Automation that is currently chaired by Dr Zhiguo Yuan, University of Queensland, Australia. The goal of this Task Group is to develop tools that encompass other processes within a wastewater treatment system (primary treatment, sludge treatment, etc.) as well as tools that will enable the evaluation of long-term control strategies and monitoring tasks (i.e. the automatic detection of sensor and process faults). Work on these extensions has already been initiated and is the current focus of the work related to Benchmark Simulation Model

no.1 Long-Term (BSM1\_LT) and Benchmark Simulation Model no.2 (BSM2). Other extensions are also being considered, such as chemical precipitation, enhanced biological phosphorus removal and reactive settling (BSM3).

### Guidelines for Use of Activated Sludge Models

[www.iwahq.org.uk/template.cfm?name=bg\\_guidelines\\_for\\_use\\_of\\_activated\\_sludge\\_models](http://www.iwahq.org.uk/template.cfm?name=bg_guidelines_for_use_of_activated_sludge_models)

This task force falls within the activities of the IWA Specialist Group on Systems Analysis and Integrated Assessment that is chaired by Peter Vanrolleghem, University of Ghent, Belgium. The goal of this group is to set up an internationally accepted framework to deal with the ASM type models in practice. This framework will make modelling more straightforward and systematic especially for practitioners and consultants. It will help also to define quality levels for simulation results, a procedure to assess this quality and to assist in the proper use of the models.

The framework will describe a methodology for goal-oriented application of activated sludge models demonstrated by means of concise guidelines about the procedure of a simulation study and some illustrative case studies. The case studies will give examples for the required data quality and quantity and the effort for calibration/validation with respect to a defined goal.

### On IWA Task Groups

IWA Task Groups have a finite life and are formed in order to perform a defined task e.g. production of IWA Scientific and Technical Report, Manual of Best Practice, Position Paper. Each task group has a maximum life span of 3 years.

## Haejin Woo 1966 - 2005



All employees at the Dept of Environmental Engineering, Pusan National University, would like to extend their sympathy to her husband Dr. Kim, 6 years-old daughter Eunha and her family.

Haejin Woo had been very busy as a conference secretary for preparing IWA ICA 2005 Conference (Instrumentation, Control and Automation). She was also serving as a chairwoman of our Department of Environmental Engineering. She was a role model, especially for the female students in our university since she was only single female professor out of about 180 professors in the college of engineering.

When she was graduated from the Pusan National University she received the Prime Minister's award recognizing her outstanding scholarship during 4 years of her undergraduate period. She was a brilliant and hard working researcher in the area of co-metabolic biodegradation of trichloroethylene which was her PhD dissertation topic.

Her research interests were on wastewater treatment, especially in the modelling and control area. She did good work also on separation of suspended solids using fiber filters with excellent cooperation with industries. Her research activities were recognized with an award given by the Korean Society of Environmental Engineers for outstanding papers published.

Haejin also served on various committees related to other activities including member of the advisory board for the Ministry of Environment and as a reviewer for the Technical Evaluation Board for turn-key design in the Ministry of Construction & Transportation.

### A New Online Journal from IWA Publishing

#### Water Practice and Technology

This online journal will be launched during 2006. It will be an invaluable source of information for water practitioners active in utilities, consultants, managers and engineers practising in the water industry.



# IWA Specialist Groups

Specialist Groups form the basis of IWA and are important vehicles for all “water people” interested in interactions on scientific, technical and management topics throughout the world. The Groups, formed as coalitions of individuals around subjects of common interest, provide a sound structure of networks for international specialists to share knowledge, information, skills, and make good professional and business contacts.

This issue of the newsletter features the activities of seven IWA Specialist Groups active in the research and practice of:

- Use of Macrophytes in Water Pollution Control
- Ecological Sanitation
- Chemical Industries
- Forest Industry
- Waste Stabilisation Ponds
- Wastewater Treatment Systems Utilizing Submarine Outfalls
- Pretreatment of Industrial Wastewaters

## Specialist Group on Use of Macrophytes in Water Pollution Control

The aims of this group are to:

- Act as a link between scientists working on the scientific and technical aspects of the use of macrophytes in wetland systems (Constructed Wetlands, Reed Beds, Treatment Wetlands and converted natural wetlands) for water pollution control and resource recovery;
- Contribute to co-ordinating research activities, defining research needs and promoting the exchange of results;
- Develop a commonly-accepted model on the functioning of macrophyte-based wastewater treatment systems and produce guidelines;
- Establish standardised guidelines for reporting performance of macrophyte-based wastewater treatment systems.

### Events

- The group held its 9th Biennial Conference on Wetland Systems for Water Pollution Control in Avignon, France in September 2004. The conference was held in conjunction with the Waste Stabilisation Ponds Group's conference. The two conferences were run one after the other over a 5-day period with a joint day in the middle. This allowed the discussion of joint interests and the interfaces between the unit processes.
- The Group's 10th Biennial Conference will take place in Lisbon, Portugal from 23 to 29

September 2006. The deadline for abstracts from authors who wish to offer oral or poster papers is 30 November, 2005 which should be submitted via the conference website at [www.wetconf10.adp.pt](http://www.wetconf10.adp.pt).

For more information about this group visit their webpage at: <http://www.iwahq.org.uk/template.cfm?name=sg13> or contact the Chair: Prof. Raimund Haberl, email: [haberl@iwga-sig.boku.ac.at](mailto:haberl@iwga-sig.boku.ac.at) and/or Secretary: Mr Paul Cooper, email: [paul.cooper@ukonline.co.uk](mailto:paul.cooper@ukonline.co.uk).

## Specialist group on Ecological Sanitation

The EcoSan group focuses on sustainable sanitation systems enabling nutrient and water reuse, mainly by source separation. The full range of options is covered, from high, medium to low-tech and from decentralised to centralised solutions.

With regard to current practice in sanitation there is a need for more options to address the requirements for the diverse geographical and socio-economic conditions around the world. There is a dramatic need for safe and cost efficient sanitation in unserved and underserved areas and the ambitious Millennium Development Goals (MDGs) can probably only be met if the profession takes up new tools.

### Events

- Meetings at Third World Water Forum, Kyoto, 2003 and the IWA Biennial conference in Marrakesh 2004.
- First specialist conference in Lübeck, Germany, 2003. The event attracted 350 participants and was co-organised with the German technical co-operation organisation - GTZ.
- Presently the group is helping with the preparation of the Beijing World Water Congress in reviewing the respective papers.

- The group will be present at the World Water Forum Mexico 2006 in March and co-convene an ecosan-workshop at the specialist conference “Small 2006” in Merida, Mexico.
- The next ecosan specialist group conference is planned for September 2006 in Hamburg, Germany.
- The Indian Water Works Association (IWWA) will host an international conference on Ecological Sanitation that will take place in Mumbai, India, 25-26 November 2005. This event is supported by the Ecosan group in association with GTZ Germany, the Government of Maharashtra and AILS, the All India Institute of Local Self Government

Ecosan attracts research groups and companies, however, research is very much oriented towards waterborne ecosan like vacuum-biogas systems, the blackwater-loop and urine diverting flush-toilets.

Dry systems with urine diversion have been installed increasingly and there are more than one million units in operation. Surveys show that professional operation is a key to success, and this becomes easier with larger numbers of people served in the same region. It has been observed that the group members are usually not working in the low-tech field with their research, even if there is some involvement in projects. This field is still operated by development aid organisations mainly – to come to scale it will require the water profession, too.

With respect to the name ‘Ecological Sanitation’ there has been a decision at the group's last meeting in Marrakech 2004 to name this type of sanitation “Resources Management Sanitation”. As a technical term this is meant to describe those technologies that aim at recovery of nutrients and water and can include Ecosan as well as DeSaR (Decentralised Sanitation and Reuse) like it was introduced by Prof. Gaze Lettinga and Prof. Peter Wilderer. If the profession will accept the term Ecosan this will



The group visits the system at rousillon, conferences in Avignon [photo: Heribert Rustige]



*Planted Eucalyptus forest*  
(photo: Cláudio Mudado Silva)

be fine, too. In this case it should be understood that there is not only low-tech solutions under this name.

For more information on the group see the group's page on internet on at:  
<http://www.iwahq.org.uk/template.cfm?name=sg52>

or contact the Chair: Prof. Dr.-Ing. Ralf Otterpohl, Email: [otterpohl@tuhh.de](mailto:otterpohl@tuhh.de) or

Co-chair: Assoc. Prof. Håkan Jönsson; Email: [Hakan.Jonsson@bt.slu.se](mailto:Hakan.Jonsson@bt.slu.se)

You are also very welcome to join the group as a new member!

## Specialist Group on Chemical Industries

This group identifies water pollution problem areas and defines technologies for solutions; a clearinghouse for technical information worldwide on industrial waste management including the chemical and petrochemical wastes.

### Events

- Trends in Sustainable Production , 13-15 November 2002, Nimes, France
- Sustainable Development and Production for Chemical Industries with the Environment (Chemical Industries 2005):
- Waste and Wastewater Management, Tsukuba & Kashima, Japan, July 14-16, 2005

Chemical Industries face a new challenge regarding sustainable development and production with environmental compatibility. Sound management of toxic chemicals is one of the major global concerns for chemical industries.

Many developed countries have introduced open activities on chemicals generated by industries such as Regulation of Pollutant Release and Transfer Register. These activities

promote chemical industries to attain a higher level of water and waste management for toxic chemicals.

For more information on the group see the group's page on internet on at:  
<http://www.iwahq.org.uk/template.cfm?name=sg19>

or contact the Chair: Prof A. J. Englande Jr, E-mail: [aenglan@tulane.edu](mailto:aenglan@tulane.edu) and/or

Secretary: Dr Torleiv Bilstad, Email: [torleiv.bilstad@uis.no](mailto:torleiv.bilstad@uis.no)

## Specialist Group on Forest Industry

This group has been active for almost 20 years. It contributes to the development of environmental issues within the forest industry, from the perspective of water. The group organises symposia and workshops, publishes a newsletter and proceeds to maintain a homepage/discussion forum under IWA group pages on the website.

### Events

- Symposia on Forest Industry Wastewaters (and Environmental Effects) have been organized since 1984
- The 8th Symposium, third outside Tampere, Finland, is well on its way, and will be held on 9 – 12 April, 2006 in Vitoria, Espirito Santo, Brasil. The high relative share of paper and poster proposals from South-America and Brasil in particular showed that the venue was correctly chosen. The Symposium will occur at the same time as the Fate and Effects of Pulp and Paper Mill Effluents constituting an integrated program that will cover a vast array of aspects pertaining to internal and external environmental controls of pulp and paper plants.
- The groups' planning strategy (joint/separate) and venue for organising the symposium in 2008-9 e.g. in Finland or China has started.
- The next symposium will be in either Finland or China 2008. If in Finland, there will be a serious effort to include aspects of Russian forest industry in the programme because that is the third "hot spot" of global forest industry. In China industrial activity is growing rapidly and this group will have an important role in discussion and decision making.

For more information on the group see the group's page on internet on at:  
<http://www.iwahq.org.uk/template.cfm?name=sg18>

or contact the Chair: Antero Luonsi, Email: [antero.luonsi@ymparisto.fi](mailto:antero.luonsi@ymparisto.fi) and/or

Secretary: Sirpa Sandelin, Email: [sirpa.sandelin@samk.fi](mailto:sirpa.sandelin@samk.fi)

## Specialist Group on Waste Stabilisation Ponds

This group aims to promote the use of waste stabilisation ponds for wastewater treatment in both industrialised and developing countries; coordinate studies on the performance of full-scale and pilot-scale waste stabilisation ponds for municipal, agricultural and industrial wastewater treatment; exchange information and develop international technology transfer mechanisms; and identify research needs for the future development of ponds systems.

### Events

- The 6th international specialist group conference was held in Avignon, France in September 2004. This conference was run 'back to back' with the 9th Conference of the IWA Specialist Group on the Use of Macrophytes in Water Pollution Control. The event provided an overview of the latest technological developments and the most significant advances in the knowledge of physical and biological mechanisms involved in the removal of nutrients and micro-organisms.
- Owing to the growing interest in the possibilities offered by combinations of stabilisation ponds and constructed wetlands for further effluent polishing and improved treatment performances, a full day was devoted to joint sessions with the 9th International Conference on Wetland Systems for Water Pollution Control (the selected proceedings of which were published as Water Science and Technology 51(9)).
- The group's next conference to be held 25-27 September 2006 in Thailand. Further information can be found at <http://www.serd.ait.ac.th/iwa>. The abstract submission deadline is 9th December 2005.

For more information on the group see the group's page on internet on at:  
<http://www.iwahq.org.uk/template.cfm?name=sg16>

or contact the Chair: Dr Andy Shilton, Email: [A.N.Shilton@massey.ac.nz](mailto:A.N.Shilton@massey.ac.nz)

## Specialist Group on Wastewater Treatment Systems Utilizing Submarine Outfalls

The relatively low cost and reliability of ocean outfalls can provide an effective solution to wastewater disposal in coastal areas with little environmental impact. This is becoming even more important given the great sanitation needs of the world, particularly in view of the rapidly increasing numbers of people living near coastlines. Implementation of an outfall project can be a complex task that is often controversial, however.

The purpose of this specialist group is to advance the science and technology of marine

wastewater disposal and to facilitate communication between practitioners and other stakeholders in the field. The group recognizes the considerable potential for wastewater treatment systems that utilize the natural receiving capacity of marine waters. The design of submarine outfalls depends on many disciplines, including oceanography, marine sciences and biology, civil and environmental engineering, construction, economics, and public relations. These diverse disciplines are rarely brought together in a single group.

#### Events

The group decided to combine their conferences and meetings with the MWW International Conferences on Marine Waste Water Discharges and Coastal Environment. Since 2000, these bi-annual MWW conferences have enabled their outfall community to meet periodically; the last was held in Catania, Italy, 27n Sept-2 Oct 2004.

The next conference, MWW 2006, which will be held in Antalya, Turkey, in November 2006 (instead of Santander, Spain as originally planned). This conference will be co-sponsored

by IWA, as have been the preceding ones. It is anticipated that a number of papers presented at MWW2006 will be subsequently published.

#### Publications

Two members of the group's managing committee, Philip Roberts and Henry Salas, are writing a book on the design of ocean outfalls and wastewater treatment for marine wastewater discharge. This book will be published jointly by IWA and the World Bank in early 2006.

Two shorter monographs: "Outfall Success Stories," and "Outfall Design Failures" will be published shortly.

For more information on the group see the group's page on internet on at: <http://www.iwahq.org.uk/template.cfm?name=sg15> or contact the Chair: Philip Roberts, Email: [proberts@ce.gatech.edu](mailto:proberts@ce.gatech.edu)

#### Specialist group on Pretreatment of Industrial Wastewaters

This group covers strategic aspects of pretreatment programmes (technical, administrative,

fiscal); impact of industrial discharges on municipal treatment works; characterisation and categorisation of industrial wastewaters; end of the pipe treatment technologies; in plant technologies; recycle, material recovery and waste minimisation; treatment and disposal of toxic sludges.

Over the last few years the activity of this Group decreased. If you are interested in becoming active in this group, have suggestions for future activities, or are willing to help organise a conference/workshop on this topic, please contact Urszula Rychta at [HYPERLINK "mailto:Urszula.Rychta@iwahq.org.uk"](mailto:Urszula.Rychta@iwahq.org.uk) Urszula.Rychta@iwahq.org.uk and/or Chair of the group Prof. Andreas Andreadakis, Email: [andre1@central.ntua.gr](mailto:andre1@central.ntua.gr)

For a full list of IWA's specialist groups and their activities view the IWA website - <http://www.iwahq.org.uk/template.cfm?name=groups>. To take advantage of this networking opportunity, and become a member of any specialist group (or change your group membership) simply contact the IWA membership department ([members@iwahq.org.uk](mailto:members@iwahq.org.uk)) and tell us which groups you would like to join.

## New IWA Events

### Hydroinformatics, 4 - 8 September 2006, Nice, France

The Hydroinformatics Conference is a significant event in the continuous effort of three international associations - International Association of Hydraulic Engineering and Research (IAHR), International Association of Hydrological Sciences (IAHS) and International Water Association (IWA) - associated for the first time with the Société Hydrotechnique de France (SHF) to actively promote and accelerate both research and applications of hydroinformatics in the world. The call for papers is now open for submissions. Prospective authors are invited to submit an abstract of not more than 300 words via the conference website by 4th January 2006 at [www.hic06.org](http://www.hic06.org)

### Sustainable Sludge Management: State of the art Challenges and Perspectives, 29 - 31 May 2006, Moscow, Russia

The primary aim of this conference is to discuss the sustainability issues dealing with sludge management, treatment, re-use and disposal. The conference will be organized in conjunction with the 7th International Trade Fair and Congress "Water: Ecology and Technology" ECWATECH-2006 (30 May-2 June 2006). Sludge management and wastewater treatment issues also will be in focus of ECWATECH-2006 congress.

Contact: Dr. Sergey Malygin, Conference Secretariat (c/o SIBICO International), PO Box 173 Moscow 107078 Russia, Tel/Fax: +7 095 101 4621, +7 095 782 1013 (multi-line)

E-mail: [IWAconference@sibico.com](mailto:IWAconference@sibico.com);  
Website: <http://IWAsludge.sibico.com>;  
ECWATECH website: [www.ecwatech.com](http://www.ecwatech.com)

### Innovations in coping with water and climate related risks, 25 - 27 September 2006, Amsterdam RAI, The Netherlands

Water managers and scientists will present new developments in coping with climate related risks in the water sector. The conference will address Risk assessment methodologies, Communicating about risks and risk reducing measures, 'Room for the River' in practise and Innovations in technologies (forecasting, construction, water utility operations). It will run parallel to the bi-annual Aquatech exhibition. Deadline for submission of abstracts: 1 January 2006.

Contact: Conference Secretariat, Buerweg 51, 1861 CH Bergen, The Netherlands. E-mail [info@moorga.com](mailto:info@moorga.com) or go to [www.moorga.com](http://www.moorga.com) (latest news).

National Organising Committee: Leonie Bolwidt e-mail: [L.Bolwidt@riza.rws.minvew.nl](mailto:L.Bolwidt@riza.rws.minvew.nl)

### IV International specialized conference on sustainable viticulture: Winery waste and ecologic impacts management, 5-8 November 2006, Viña del Mar, Chile.

This symposium offers a carefully selected program of internationally selected submitted

oral contributions, supplemented by posters detailing the latest research findings. Attendance at this event will enable you to:

- Gain an instant update on research and developments on sustainable viticulture and waste management.
- Exchange ideas and experiences and gain new directions for your work.
- Interact with an international interdisciplinary audience – meet old acquaintances and make new contacts.
- The event will cover topics relevant to Environment Management as well as Technologies of Treatment/Disposal/Characterization.

Authors are invited to submit extended abstract (2 pages) indicating if it is submitted as oral or poster presentation, before March 15 2006. The Scientific Committee will evaluate the submitted abstracts.

CONFERENCE SECRETARIAT: Gonzalo Ruiz

Escuela de Ingeniería Bioquímica; Universidad Católica de Valparaíso; General Cruz 34. Valparaíso; CHILE. Phone +56-32-273640; Fax +56-32-273803. e-mail: [winery2006@ucv.cl](mailto:winery2006@ucv.cl) [www.winery2006.ucv.cl](http://www.winery2006.ucv.cl)

### Marine Wastewater Discharges and Coastal Environment

Please note that the above conference due to take place in Santander, Spain, 25 - 29 September 2006 will now take place in Antalya, Turkey, 6 - 10 November 2006. For more information please visit [www.mwwd.org](http://www.mwwd.org)



# News from IWA Publishing – [www.iwapublishing.com](http://www.iwapublishing.com)

We are delighted to bring you news of EIGHT NEW BOOKS from IWA Publishing:

## \* A New Legal Framework for Managing the World's Shared Groundwaters \* A Case-study from the Middle East



Author: Fadia Daibes-Murad

What are the rules of international water law that govern the use of the transboundary aquifers shared by Palestine and Israel? This book addresses this issue through an interdisciplinary approach, identifying at first the special problems tied to the management of shared groundwater, and next critically analysing the applicable rules of international law.

Water Law & Policy Series

ISBN: 1843390760 · November 2005 · 352 pages · Hardback  
IWA Members Price: £52.50 / US\$105.00 / €78.75

## \* Activated Sludge Separation Problems \* Theory, Control Measures, Practical Experiences



Editors: V Tandoi, D Jenkins, J Wanner

This report describes the main reasons for the growth of the microorganisms in activated sludge, and the biological molecular tools today available for the identification of the main biomass components. The wide range of experiences around the world is documented and the methods to avoid the proliferation of these organisms are presented and critically reviewed.

Scientific and Technical Report No. 16

ISBN: 1900222841 · December 2005 · 232 pages · Paperback  
IWA Members Price: £52.50 / US\$105.00 / €78.75

## \* Hydrology and Water Law – Bridging the Gap \* A Case-study of HELP Basins



Editors: J Wallace, P Wouters

With "integrated water resources management" the current buzzword in international circles, the real question is: how to operationalise a truly multidisciplinary approach to the effective management of shared watercourses. This book will act as a guide to how future water laws and policies can be made more effective via the use of accurate and up to date hydrological information.

Water Law & Policy Series

ISBN: 1843390701 · December 2005 · 380 pages · Hardback  
IWA Members Price: £52.50 / US\$105.00 / €78.75

## \* International Law and Sustainable Development \* Lessons from the Law of International Watercourses



Author: A Rieu-Clarke

This book offers a critical analysis of past attempts to develop legal frameworks for promoting sustainable development at the international level, and advocates for a fresh approach based on lessons learnt from the law of international watercourses.

Water Law & Policy Series

ISBN: 1843390752 · November 2005 · 268 pages · Hardback  
IWA Members Price: £52.50 / US\$105.00 / €78.75

## \* Mathematical Modeling of Biofilms \*



Author: IWA Task Group on Biofilm Modeling

Whether we want to promote good biofilms or eliminate bad biofilms, we need to understand how they work and what works to control them. Mathematical models help us understand the complex phenomena that occur in biofilms. This report provides the foundation to understand the models and to select the most appropriate one for a given use.

Scientific and Technical Report No. 18

ISBN: 1843390876 · November 2005 · 208 pages · Paperback  
IWA Members Price: £48.75 / US\$97.50 / €73.50

## \* Preventing Legionellosis \*



Author: William F McCoy

Legionellosis is preventable. The biological hazard caused by Legionella bacteria in water systems can be eliminated or reduced to acceptable levels under operating conditions. The book will give the scientific basis for the worldwide technical consensus on the prevention of legionellosis.

ISBN: 1843390949 · November 2005 · 152 pages · Hardback  
IWA Members Price: £48.75 / US\$97.50 / €73.50

## \* Water Recreation and Disease \*

### Plausibility of Associated Infections: Acute Effects, Sequelae and Mortality



Author: Dr Kathy Pond

This book sets out to identify the more severe waterborne diseases and their sequelae which may be acquired while undertaking water-based recreation in marine, freshwater, spas/whirlpools and swimming pools. The review systematically brings information together on the ecology and health aspects of a variety of pathogens where cases attributed to recreational use of water have been documented.

WHO Emerging Issues in Water & Infectious Disease Series  
ISBN: 1843390663 · October 2005 · 264 pages · Hardback  
IWA Members Price: £45.00 / US\$90.00 / €67.50

## \* Water Rights \*

### An International and Comparative Study



Author: Desheng Hu

This book identifies the essential elements a well-structured water rights system. It is the first to discuss water rights holistically, putting the three aspects of water rights (the property right of water resources, the human right to water and the environmental right to water) into a single, well-organised water rights system under the principle of sustainable development.

Water Law & Policy Series

ISBN: 1843391082 · December 2005 · 208 pages · Hardback  
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