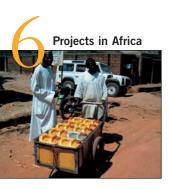


New office openings









Member Newsletter

Starting From Scratch

Editorial by IWA Executive Director, Mr Paul Reiter

If we were building whole cities anew and asked ourselves the question whether we would supply water and sanitation services in a similar way or different way than we do today, I guess the answer would be that we might accomplish things in a very different way.

The limitations of resources in many parts of the world, coupled with new technologies that operate efficiently at much smaller scale would probably result in a city with far less centralisation in terms of basic water and wastewater service and treatment strategies. Nodal, clustered and in-situ approaches would be likely be favoured because they permit much higher levels of reuse, saving both water and energy.

You might ask why I would pose such an impractical question, given that many cities are already built and for very good reasons, have water and wastewater systems that are highly centralised. But if you think about it, in many parts of the world, cities are either being built incrementally or are largely yet to be built. Los Angeles is adding approximately 100 thousand housing units serving 250 thousand new residents per year. Shanghai also adds about 250 thousand new residents per year. Experts estimate that of the next 2 billion people to be added to the earth's population over the next 20 years. 70% or more will be situated in urban areas. And In most cases, the largest share of this growth is located at the peripheries

So in a sense, we do have the ability to think about how we might service this growth differently from the approaches we have used in the

past ... almost as though we were starting from scratch. And in this context, and in a water and energy constrained future, the obvious question is this: are we as leading water professionals thinking enough about what future water and wastewater systems should look like, and how these systems would relate to urban design?

I would guess that most members would say that we should do significantly more and better thinking in this area. And that is precisely why a "Cities of the Future" initiative would make sense in the development of the Association at this time, building on the work of some of our leading members. Notable among these efforts is an initiative and recently released IWA book of the same name, Cities of the Future, sponsored by CDM and led by Paul Brown and Vladimir Novotny.

As Paul would say, we spatially design cities as a set of buildings and then insert the water infrastructure as a second step. However, if we are to think about the introduction of nodal, clustered and in-situ approaches, the design of the city needs to be different and suddenly we need to revise our thinking not just about the systems, but about how water planning relates to urban planning. Cities need to be built to take advantage of new opportunities for water and wastewater services, and vice-versa.

And to have this conversation, we need to have a broader group of people in the discussion than water engineers alone. We need to add architects and urban planners at a minimum and, ideally, urban politicians and urban policy



specialists. This is precisely the group that we wish to put together as part of the Cities of the Future workshop in the 2008 IWA World Water Congress in Vienna in September, 2008.

If this line of thinking is in your sights or is your passion, Vienna will provide an important opportunity to further our collective thinking, identify individuals who wish to collaborate and build on the very successful Cities of the Future workshop at the 2006 Beijing IWA Biennial Congress. I look forward to seeing you there and in the meantime, thoughts and comments are very much appreciated.

But before we look too far into the future, let me first wish you a happy and healthy festive season. I've personally enjoyed 2007 tremendously, mostly because of the wonderful people I get to work with in this association. Have a good start to 2008 and see you soon!

IWA News Update

New office openings in The Hague and Beijing

The International Water Association (IWA) has set-up a major operational office in The Hague to further its collaboration with international partners in the water sector.

"The Hague office offers us a myriad of opportunities to partner with the scientific, utility and industrial communities that are pro-actively engaging in solving problems of water supply and sanitation in both developed and developing countries", said Paul Reiter, IWA's Executive Director. "The role of the Dutch in this international context is remarkable, but perhaps not so surprising when you take a closer look at over centuries how well they have turned the threat of water into a strategic asset. Here we find a utility structure better set-up to holistically tackle the issues than many places in the world, technology hives that breed best practice and a clear commitment from the Dutch government to be a leader in this field both at home and

Based right in the heart of the "International City" that is home to some 150 international organisations, the IWA office opened officially in a ceremony hosted by the Mayor of The Hague on





November 14th. Together with the opening of new regional offices in Singapore and Beijing, it demonstrates IWA's continuing expansion and regionalisation into the heartlands of where water issues are tackled head-on.



December 7th opening of the new Beijing office with David Garman and Madam Nie Meisheng, vice president of China Urban Water and Wastewater Association

IWA Staff Update

The opening of a new IWA office in The Hague has seen the expansion of IWA's staff across the various departments. With the opening of regional offices around the world and IWA Headquarters still based in London, we would like to take this opportunity to confirm where we are all based!

IWA HEADQUARTERS - LONDON

IWA Finance and Administration

Satkunam Murugathas: Financial Controller Sharon Lewis: Assistant Financial Controller

IWA Publishing

Michael Dunn: Managing Director lan Morgan: Marketing Manager David Burns: Marketing Assistant Keith Hayward: Water21

Michelle Jones: Production Manager Paul Nagle: Journals Manager

Emma Gulseven: Journals Production Editor

IWA - The Hague

The following activities will now be coordinated out of The Hague Office:

- Support for the activities of the Specialist Groups, interest groups, Task Groups, and Association strategic programmes
- Support for the IWA Governing Assembly and Board of Directors
- Support for the Strategic Council and Association Committees
- Biennial and annual conference planning and execution
- Membership management and marketing

IWA Executive Office:

Paul Reiter: Executive Director Armand Van Oostrom: Chief Operating Officer

(New)

Bernie O'Neill: Executive Secretary Soo Van De Laar: Management Assistant (New)

Communications:

Andrew Walker: Communications Director

Membership & Marketing:

Chloe Menhinick: Membership Manager Skye Rytenskild: Corporate Membership Officer (New)

Vincent Edelkoort: Membership Administrator (New)

International Programmes:

Keith Robertson: Manager, International Programmes and Support Adrian Puigarnau: Programmes Officer Frances Lucraft: Programmes Officer Tom Williams: Programmes Officer Andrea Shufflebotham: Vienna Sponsor Liaison Officer (New)

Development Programme:

Darren Saywell: Development Director Ase Johannessen – Programme Officer-Development (New)

IWA - China

Rose Lang - Director - IWA China

IWA - Singapore

Ryan Yuen - Director - IWA Singapore

David Garman re-elected as IWA President



During the association's last Governing Assembly in October in Amsterdam, David Garman was reelected as IWA's president for a further 2 year term through to 2009.

The result was not a major surprise as David was officially inaugurated relatively recently at the 2006 Beijing World Water Congress. The Governing Assembly praised David's direction and energy during a time of considerable development within the Association, and was grateful for his offer to serve a further term.

ANDREW WALKER New Director of Communications



Andrew Walker, formerly of Siemens, joined the International Water Association as Director of Communications at the beginning of October. By creating a new position and

employing a dedicated communications professional, IWA plans to further enhance the multi-faceted communication work of this association, profile the IWA and its international activities, and "build awareness for the cause of water professionals and stakeholders within and outside the industry." He added, "I'm delighted to be joining IWA in a dynamic and international team and motivated to help take on some of mankind's most pressing issues in an industry I have become deeply attached to."

Walker spent 15 years as a communications professional at Siemens in various industries, including power, oil & gas, road traffic telematics, IT solutions, and the water business. Most recently, he co-led communications efforts to position Siemens Water Technologies as the number one technology company in the industry following the company's acquisition of USFilter in 2004.

Prize deadline is only months away

Less than four months now remain for those planning to enter nominations for the Prince Sultan Bin Abdulaziz International Prize for Water 2006-2008. Closing date for entries for any of the five prizes on offer is 31 December 2007.

The current round of the Prize, which will be awarded in 2008, is the third in the series initiated with the patronage of HRH Prince Sultan Bin Abdulaziz as a humanitarian contribution by the Kingdom of Saudi Arabia to the world and as an initiative to address the growing problem of water resources worldwide, which is being exacerbated by global warming.

The Prize is intended to reward the efforts of innovative academics and scientists as well as related organisations in the realm of water resources. It has been established to acknowledge the special achievements that have contributed to the development of scientific solutions to solve the problems associated with the provision as well as the preservation of adequate and sustainable water resources, particularly in arid regions.

A special new Creativity Prize, worth more than a quarter of a million dollars, has been added to the awards for this round. Worth 1 million Saudi Riyals (SR) or around US\$266,000, the Creativity Prize will be awarded to any original work (research, invention, technique etc) which is considered as a breakthrough in any water-



جائرة الأميـر سلطـان بن عبـدالعـزيـز العـالميــة للميــاه PRINCE SULTAN BIN ABDULAZIZ INTERNATIONAL PRIZE FOR WATER

related field. The work must be practically applicable, economically feasible and environmentally friendly.

In addition to this new Prize, four additional Prizes will be available for the best nominations in four topics in separate subsectors of water resources:

- l Surface Water:
 - Topic: Sedimentation Control in Surface Water Systems.
- 2 Ground Water
 - Topic: Exploration and Assessment of Ground Water
- 3 Alternative (non-traditional) Water Resources.

Topic: Innovative Methods and Systems in Desalination.

4 Water Resources Management and Protection

Topic: Water Demand Management in Urban Areas.

The Prize for each of these subsectors will be SR 500,000 (\$133,000 approx.). Winners will also receive a gold medallion, a trophy and a certificate which will be presented at a special award ceremony.

All the relevant details for nominations for the 2006-8 Prize can be found on the Prize website at: http://www.psipw.org.

For further information about the Prize, visit the website: http://www.psipw.org. or contact:

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: +966-1-4675571, Fax: +966-1-4675574, E-Mail: info@psipw.org

IWA Business Meetings - Amsterdam, October 2007

IWA Governing Assembly convenes in Amsterdam

The Association's Governing Members, representing the interests of each member country across the IWA family, met recently during the business meetings planned in Amsterdam in the first week of October. A total of 30 Governing Members were present, along with observers, to deliberate on a series of key issues for the Association, some of which are reported elsewhere in this newsletter. The Governing Assembly is a forum for members to help guide and steer the Association in its work and strategy, and an effective mechanism for a diverse exchange of views on common issues running through IWA.

In Amsterdam, a number of important points were set before the Governing Assembly for their review:

World Water Congress, 2012: Importantly, the Assembly was asked to review candidates and submissions for the hosting of the 2012 World Water Congress. Governing Members agreed that the quality of the submissions from technical, logistical and social perspectives from all the candidates was extremely high. Having heard from the teams leading the bids and from IWA Executive Director Paul Reiter, the Governing Assembly voted to approve Busan, Korea as the winning applicant for the hosting of the 2012 Congress.

Presidential election: the Governing Assembly was given an overview of the process for election of the Association's President, including detail on soliciting for candidates and nominations. Furthermore, a change in the constitution of IWA was approved in the Beijing meeting in 2006. This allows for officers of the Board to serve for two terms. With regard to the Presidency, this was in fact the case; with a single candidate standing, the Governing

Assembly elected and ratified David Garman to serve as President for an additional two year term commencing in 2008.

Governing Members' workshop: Following the other business of the Assembly, a short interactive session with Governing Members was scheduled. This focused broadly on how the London office can help Governing Members in their work and activities, and moreover on suggestions that Governing Members had for helping the London office. Three operational aspects were dealt with in detail, including how to recruit and retain members, how to market IWA more effectively and how to ensure closer engagement with Governing Members.

A report from the workshop will be made available for all Governing Members in due course.

Review of Strategic Council meeting outcomes, Amsterdam: 3rd October

Members of IWA's Strategic Council gathered together at the Amsterdam Water and Sewerage Company – Waternet – on 3rd October during the week of scheduled IWA business meetings. The Council, Chaired by Gerard Payen, which had met once already in 2007 in Paris, dedicated the first part of the meeting to an update on progress since Paris, namely in relation to the development of specific partnerships outside of the Association and a prioritised listing of IWA reference papers. Members of the Council recognised that much work had been undertaken between these meetings.

This set the context for the day's deliberations, which placed emphasis on a series of items of critical importance to the Association, namely:

- A review of the IWA Utilities and Global Development Solutions programmes:
 Council members helped to provide feedback and insights into the strategic direction and activities within both programmes, using small break-out groups to focus opinion and reach consensus. In short, while members recognised that both programmes have made a good start, there is still much room for improvement both in the delivery of outputs/outcomes and in engaging the right communities of practice. A noticeable point was to ensure sufficient convergence between the two programmes, whilst retaining their respective differences.
- Strategic Council election process: The Chair and Board of Directors of IWA have recognised the need to optimise where appropriate the mix of members within the Strategic Council. However, it was felt that total renewal of Council membership also posed a risk at a time when it was functioning well. A proposal for partial renewal, which will seek to optimise rotation across the different representative groupings in the Council, was approved with minor amendments. Thus, greater emphasis was placed on the transition process to achieve partial renewal, and this is where IWA London office must now focus its energy and attention.
- Reference paper review: three papers were reviewed in detail, in break-out groups. These were: sanitation options, climate change and adaptation, and energy & water. Many specific comments were received which will be excellent feedback for authors in readiness for a further evolution of these papers. The main point of consensus was that reference papers must contain and articulate clear, simple messages, in addition to more substantive technical information.
- Industrial forum: the Council was asked to consider the form and purpose of a forum which could be used to engage the industry member segment within the Association more effectively. The forum would help to link and provide a common language between industrial users of water, industry technology providers and other segments such as consultants, researchers and utilities. In the recent past (at the Beijing Congress) this was achieved through themed exhibition space; in order to evolve our offering to this constituency the Council was challenged to consider the needs of industry, the type of activities that this segment would engage in and how this community should interact at the IWA Congress.

The next Strategic Council meeting will be scheduled for the spring of 2008.

Busan, Korea selected for 2012 IWA Congress

In a tightly run contest, the city of Busan in south Korea beat its competitors to the post to win the bid to host the 2012 World Water Congress. The applicants made their pitch presentations to the Governing Assembly during the Amsterdam meetings in October in a style reminiscent of bids to host the Olympics. The very professional presentations by high-ranking delegations included very detailed reasoning spelling out the advantages of the bid and used video to give the Assembly a good insight of the location and what delegates might expect from the particular city in question.

"With Busan we have a city extremely well equipped to host the Congress that is in a highly-interesting area for water professionals", stated Paul Reiter. "The Governing Assembly was convinced by the commitment the Korean delegation demonstrated in their bid and how well it is aligned with IWA's strategic objectives." 2012 will be the 8th IWA World Water Congress following Vienna in 2008 and Montreal in 2010.



Vienna World Water Congress

Organisers of the IWA World Water Congress in Vienna from 7 to 12 September 2008 have received 1,346 papers.

Predictably for an IWA world congress, the most popular topic in Vienna will be wastewater treatment, with 36% of the papers received focusing on this theme. Drinking water treatment is the next most popular topic, with 19% of the papers.

Congress Programme Manager Tom Williams noted that there has been an increase on previous years in submissions for the tracks focusing on the design and operation of water systems and the management and planning of water services. "This reflects greater interest from practitioners and managers to participate in the congress," he said.

Of the cross-cutting themes, the science and practice of sustainable development has been the most popular, attracting 226 submissions, while 43 submissions were received on the climate change theme and 39 on managing water in cities.

Tom Williams provided the following comprehensive update on the Vienna congress for IWA members:

"We received submissions from five continents on the climate change theme. This highlights the truly global relevance of this issue and therefore the critical role IWA will play, as the leading international association of water professionals, in bringing disciplines together to lead the way in stimulating adaptive actions to mitigate the impacts of climate change.

"This will be the first time the congress has come to Europe for seven years. There have been big changes in water management over those years. The Water Framework Directive (WFD) came into force in 2000 and by 2008 we should see progress made on the development of river basin management plans.



"With the WFD in mind, there is no better place to be in 2008 than the Danube region, which boasts some of the international leaders in river basin management, reflected in the recent award of the International Thiess River Prize for Excellence in Water Management being won by the International Commission for the Protection of the Danube River (ICPDR).

"The European Community has expanded in recent years. This has created challenges for some of the accession countries but also opportunities to share their experiences and exchange knowledge with the global water community.

"Globally there have been advancements in the way we manage resources generally. Increasingly, service providers are looking towards a portfolio approach to water management and exploring new ways to introduce greater resource options such as desalination and water reuse. The technologies, risks and economical aspects of this paradigm shift are addressed throughout the technical programme; no more so than in the track of integrated water management.

"The UN has declared that 2008 will be the International Year of Sanitation, for which preparations are well under way. Through technical sessions and workshops, the Vienna congress provides a global platform from which water professionals can work towards securing real commitments to review, develop and

implement effective action to scale up sanitation programmes and strengthen sanitation policies."

Details of the programme will be compiled in the invitation to register brochure which will be sent out in April 2008.

Delegates in Vienna will be able to see the world's latest cutting-edge technologies in the exhibition. Utilities, technology and product manufacturers, consultants, knowledge and research institutes, NGOs and the media will all be represented. The exhibition will include a number of national pavilions – from Germany, Austria, Israel, the Netherlands, Norway, Denmark, Singapore, as well as representation from the Danube region.

The City of Vienna is IWA's institutional partner for this event. The principal sponsors are Siemens, Suez, Veolia Water and the platinum sponsor is ITT. Some gold sponsorships are also available. The next printed event literature will be the invitation to register brochure. Intending gold sponsors will need to sign up in early 2008 in order to be featured there.

Enquiries

For more information visit www.iwa2008vienna.org or contact:

Conference: email 2008vienna@iwahq.org.uk, tel. +44 20 7654 5500 Exhibition: tel. +31 23 750 5105

World Water Monitoring Day leaving its mark

Every year, between September 18 and October 18, tens of thousands of people – young and old alike – in communities across the globe are involved in a simple initiative to measure the health of local water bodies. World Water Monitoring Day is a process of community engagement and raising awareness about the importance of water quality. As such, the learning and understanding that this process generates is far more important than the specific snapshot data that is generated; a fact that was recognised recently by the US National Association of Clean Water Agencies (NACWA), which awarded WWMD one of its prestigious annual Clean Water awards

The Award first and foremost recognises the achievements of those participating in the initiative. In 2006 this totalled approximately 30,000 people in 39 countries, monitoring water quality in nearly 4000 individual sites. Moreover, the Award recognises the role of the joint coordinators of WWMD – the International Water Association and the Water Environment Federation. IWA's primary role has been to extend the reach of the initiative internationally, and in 2007, coverage was increased significantly to 59 countries.

Following the end of the month-long monitoring period on October 18, the emphasis shifted towards the entering of data in the

WWMD database, and in synthesising the results, which will be ready for publication at the start of 2008. This year, IWA has worked hard to involve a range of different organisation types and members in the initiative – comprising Governing Members, Young Water Professionals, corporate members, and a whole spectrum of organisations, from government through to NGOs.

More details of the outcomes from 2007 will be made available at the WWMD website: www.worldwatermonitoringday.org. For further details of IWA involvement, contact Darren Saywell (email: darren.saywell@iwahq.org)

Interested in working on water and sanitation

projects in Africa?

IWA is a member of the UK based Partners for Water and Sanitation (PAWS) www.partnersforwater.org. PAWS is located at the Water, Engineering and Development Centre (WEDC) at Loughborough University, and is funded by the Department for International Development. The partnership was established in response to the Millennium Development Goal to reduce by half the proportion of people without sustainable access to safe drinking water and adequate sanitation by 2015. As part of IWA's continued efforts to provide opportunities for members to network their experience in low and middle income countries, PAWS and IWA have agreed to seek technical inputs from IWA members

The aim of PAWS is to help improve access to safe and sustainable water and sanitation for people in countries in Africa using expertise drawn exclusively from the UK water sector. PAWS is currently working in Nigeria, South Africa and Ethiopia and is seeking opportunities in Tanzania, Malawi and Sierra Leone. Locally recruited Country Managers are responsible for identifying where PAWS interventions can derive the most benefit for communities.

PAWS is a not-for-profit partnership which draws upon the wide range of technical, policy, management, and strategic skills from members which come from government, the private sector and civil society. PAWS does not donate money to projects, instead its partners donate their time and skills. Partners include UK water companies, development NGOs, law firms, trade unions and government departments and agencies. PAWS membership is free but input into projects is on a pro bono basis with all travel and expenses covered by PAWS. Support inputs will typically be short term; one to two weeks in a country within a longer-term framework or through remote desk-based advice and guidance.

PAWS works on projects at both a municipal and national level that aim to build capacity



Nigerian water vendor. The poor pay much more for their water through vendors as they often do not have access to piped water

through knowledge transfer. This includes strategic support on all aspects of sustainable water supply, water resource management and sanitation management including; governance structures, different forms of regulation, and socio-economic strategies. PAWS transfers knowledge by twinning local water service organisations and municipalities with similar organisations in the UK, through networking events, targeted seminars and inward and outward working visits at the secondary town and peri-urban levels.

In South Africa PAWS is working with the Department of Water Affairs and Forestry to develop a regulatory framework for water services. They are also running Customer Care workshops, providing legal input on the draft Water Services Bill, advice on contract

management and support to the new Catchment Management Agencies. Local level support is being given to municipalities under the framework of their Water Services Development Plan. For example, drafting long term water services strategies; developing customer care and communication strategies, advising on cost recovery and tariff setting options, technical and strategic support in water loss management and pressure reduction, advising on local bylaws and conducting 'on the job' training for staff.

In Nigeria the focus to date has been to build partnerships with key stakeholders such as the Ministry of Water Resources, donors and NGOs such as WaterAid to identify where PAWS can add value to their projects. Projects to date include advice to the State Technical Unit on implementing the National Water and Sanitation Sector Reform programme of the European Commission, institutional analysis, support to the development of the National Water Resource Bill, small towns water supply and sanitation projects.

PAWS has just appointed a new Country Manager in Ethiopia who will take forward existing and develop new projects through strategic alliances with key stakeholders. Existing projects include training staff on detection and management of leakage, providing trainers to the technical vocation college, commenting on the draft regional legislation for water resources management and developing a strategy for recommissioning schemes.

If you are interested in becoming a member of PAWS then please contact the PAWS Secretariat Secretariat@Partnersforwater.org or call +44 (0) 1509 222614



60 second interview - Dr Sam Godfrey

Project Officer - Water and Environmental Sanitation United Nation Children's Fund (UNICEF) Bhopal Field Office, Bhopal, India

Dr Sam Godfrey is a Chartered Water and Environmental Manager (CWEM). With a Ph.D. in groundwater microbiology, he combines "cutting edge" scientific knowledge with "grass roots" field work in developing countries. He has worked for the United Nations, Engineering Consultancies, NGO and academic organisations as both a manager and technical advisor on both rural and urban water and sanitation programmes and since 2005 he has been working as Project Officer for UNICEF in Central India. His specific responsibilities include the introduction, dissemination and implementation of Water Safety Plans and water reuse in water scarce and fluorosis affected rural communities.

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

In the water sector there has been a substantial change from a "quantity" to a "quality" driven approach. With the increased risk of anthropogenic and industrial pollution in many countries, water professionals are being forced to examine new ways of addressing the looming Millennium Development Goals (MDGs) in 2015. Due to the high occurrence of both emerging pathogens and toxic inorganic chemicals in ground and surface water sources, the third edition of the World Health Organization (WHO) Guidelines for both Drinking Water and Wastewater outlines a fundamental change in the approach to control water quality. The WHO recommends a move away from traditional end point testing of water quality and a move towards risk assessment and risk management practices. At the field level this has major implications; ranging from the need to revise national standards which are risk-based (as opposed to only epidemiologically based) to the need to reengineer drinking water supply and wastewater supply systems to meet modified performance targets, and the development and application of appropriate risk assessment and risk management techniques.

What do you consider to be the most significant future challenge that professionals must deal with in the next 10 years?

Rapid population and industrial growth in developing countries is placing increased strain on groundwater resources. For example, India

has 25 per cent of the world's population, with 80 per cent of its population reliant on only 4 per cent of the world's share of groundwater resources. The most significant future challenge therefore facing countries like India is how to move from a "water supply" to a "water management" approach to service provision. Emerging economies need to adapt traditional water supply technologies to address the increased demand for large scale economic application. This is not only a challenge for water professionals in developing countries, but is also a major challenge for professionals working in both academic and international organisations. Having worked for 5 years as a researcher and lecturer at the Water, Engineering and Development Centre (WEDC), Loughborough University, UK, I am increasingly aware of the mismatch between water engineering education and water engineering application for developing countries. There is a void between the "low cost - low technology" and "high cost - high technology" schools of teaching. Both, in my opinion, are not appropriate for emerging developing economies. Instead, investment into "appropriate sustainable water management" technologies which may be low or high tech/and/or low or high cost is required. Good examples of this include greywater reuse, rainwater harvesting, small scale reverse osmosis and nano-filtration technologies.

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

The thinkers in the World Health
Organisation scientific committees continue to
make substantial intellectual and technical
inputs into the water sector. Specifically, Dr
Jamie Bartram has created a legacy in his ability
to transfer high end scientific knowledge from
North America/Australia/Europe to developing
countries.

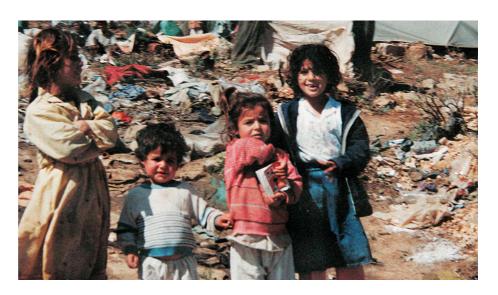


In what ways would you like to see IWA change in the next 5 years?

IWA is rapidly becoming the premier think tank in the water sector. It would be useful to have some additional IWA offices located in developing countries to encourage greater IWA national and regional representation in South America, Africa and Asia.

Career defining moments; changes in direction or thinking; core lesson learned

I began my career as a young water scientist working as a volunteer for 6 months on a groundwater development project in Northern Uganda. My mentor on the project was a tall Ugandan engineer called "Tim." One day we were stranded deep in the bush due to heavy rains and had to sleep under the long wheeled base truck containing the borehole drill pipe and pumps. The local villagers served us their delicacy of fried rat and maize pap. After the meal, Tim told me that there are three strengths one needs in the international water sector, "a strong mind, a strong body and an even stronger stomach!'.



Get your project the recognition it deserves! International Water Associat Project Innovation / Gobal Winner 2

The IWA Project Innovation Awards recognise excellence and innovation in water engineering projects throughout the world.

Key Features of the Award

- recognises success in both project conception and end results
- · focuses on engineering and water
- builds on national award programmes to create a set of regional and global awards
- web and email based application and judging

Regions

- · North America (run by the AAEE)
- Europe
- East Asia and Pacific

Categories

- · applied research projects
- planning projects
- design projects
- · operations/management
- · small projects

Cycle

- regional winners and runners-up advance to the global competition
- global awards are given at the IWA World Water Congress every 2 years, with the next one announced in Vienna, Austria in September 2008.



Glen Daigger from CH2M Hill receiving the 2006 Global Award in Beijing

Submissions to the award series are welcomed from individuals, companies, organisations and governmental bodies.

The deadline for submissions is **February 29th, 2008**. Sponsoring opportunities are still available. Interested? Please visit www.iwahq.org



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.

For a full list of IWA's specialist groups and their activities view the IWA website http://www.iwahq.org/templates/ld_templates/lay out_633184.aspx?ObjectId=633829 . 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) and tell us which groups you would like to join.

This issue of the newsletter features the activities of four groups active in the research and practice of:

- Statistics and Economics
- Marketing and Communication
- Materials and Corrosion
- Water Reuse

Statistics and Economics

The scope of this Group is to provide a forum to debate how utilities are financed, their various water tariff structures and the measurement of performance. Through periodical worldwide surveys the Group provides water industry statistics on countries water facts updating abstraction, consumption and water charging figures. Workshops and seminars are organised annually in order to share information and experiences of fundamental and practical issues about current pricing and funding practices.

Through its activities the Group is focused on satisfying the needs of the Group's membership while at the same time positively cooperating with other IWA Specialist Groups so helping to deliver relevant aspects of the Association's Strategic Plan.

Forthcoming events

2009 will see the Group organising a second conference in Alexandroupolis, Greece 3-5 July on International Finance and Charging Regimes in the water sector. For further details about this conference please go to the following link:

http://www.iwahq.org/templates/ld_templates/layout_633184.aspx?ObjectId=656006

The Group restructured the leaflet on International Statistics for Water Services which was presented at the 2006 Beijing Congress. This leaflet covered charging levels and water service key figures. This leaflet will be edited by IWA Publishing and presented at the next World Congress in Vienna 2008.

Browse the IWA website http://www.iwahq.org.uk/template.cfm?name=sg 37 - for an updated view of the Group's activities, published documents and newsletter.

The main contacts for the group are the Chair, Dr. Renato Parena renato.parena@smatorino.it; Vice-Chair Carlos Sanclemente: escsanclem@agbar.es and the secretary Dr. Ed Smeets ed.smeets@twm.nl

Marketing and Communication

The Group's focus is widely drawn and includes all aspects of proactive and reactive communications, both external and internal. The intent is to build good relations and understanding between an organisation and its wide range of customers. The aims of this group are to:

- Provide a forum for the exchange of best practice among communication specialists in water services organisations and help build good relations with stakeholders by widening their understanding of the water utilities
- Raise environmental knowledge and awareness among stakeholders and other interested parties.
- Learn from the experience of others (e.g., crisis management, drought management, and to understand what works and what doesn't).
- Keep abreast of emerging technologies and communication opportunities and initiate guidance material for use in water services organisations.
- Recognise the outstanding work of professionals in water services organisations (for example, through awards) and improve the recognition of education as an important and efficient tool to implement wise use of water to young people.
- Raise the profile, status and esteem with which communications specialists are viewed in the water industry, and to demonstrate their contribution to improving the management of water services

For more information please go to the group's webpage at http://www.iwahq.org/templates/ld_templates/layo ut_633184.aspx?ObjectId=633853

The chair of the group is Walter Kling, kli@m31.magwien.gv.at

Secretary: Ari Nevalainen ari.nevalainen@hkv.hel.fi

Materials and Corrosions

The objective of the Specialist Group is to provide state of the art information on materials selection and corrosion control as it is related to infrastructure, water distribution and treatment systems and wastewater collection and treatment systems.

The group is in the process of reinvigoration with a re-launch of the specialist group that took place at the Metals and Related Substances in Drinking Water COST ACTION 637 International Conference in Antalya, Turkey, October 24-26, 2007.

For your reference, a first cut of the group constitution can be found on the SG web-page http://www.iwahq.org/templates/ld_templates/layo ut_633184.aspx?ObjectId=633857

For further information please contact the Chair of the group: Larry Russell Llr100@aol.com and/or the Secretary: Colin Hayes, C.R.Hayes@swansea.ac.uk

Water Reuse

The Water Reuse Group seeks to promote water reuse in irrigated agriculture and recycling for industrial and municipal purposes through increasing public, governmental and professional awareness and understanding. Since this practice is not as widely accepted as other more costly water supply and wastewater treatment options, we believe that it is important that IWA contributes through this group to the establishment of useful, pragmatic and realistic water reuse quality criteria that can be implemented gradually all over the world. Also, the group seeks to raise awareness amongst researchers, policy makers and professionals on the different opportunities for water reuse in developed and developing countries. We strongly believe that, if well managed, water reuse can contribute to improve integrated water resources management and therefore to improve the quality of life.

To achieve the Group's goals we are:

- 1. Operating and strengthening the worldwide water recycling knowledge network by linking our members and collaborating with institutions or associations with similar interests
- 2. Participating actively in different committees to produce criteria (such as those established by WHO)
- 3. Distributing our newsletters and organising international meetings in different countries

More information about the group can be found on the Group's webpage at: http://www.iwahq.org/templates/ld_templates/layo ut_633184.aspx?ObjectId=633937

Alternatively, contact the Chair In. S. Kim, iskim@gist.ac.kr and/or Secretary Shane A Snyder shane.snyder@lvvwd.com

Membership news

It's time to renew!

2007 has been a very successful year for IWA in terms of the continued growth of the IWA membership network. We now have a total of 410 corporate members and 4901 individual members!

We'd like to thank you for your vital support of and involvement with the International Water Association throughout 2007. It is our hope that you have found your membership invaluable. Your involvement with the IWA provides you with access to the most dynamic water network in the world. It connects you with thousands of international peers across a range of disciplines,

allows you the opportunity to stay ahead of the latest developments with our publications, and exchange information and ideas at a range of global and regional conferences

It is now time to renew your membership for 2008 and you should by now have received your membership renewal invoice. Individual members have the option to either pay the renewal invoice as instructed or you can renew your membership online at: www.iwahq.org. IWA would like to encourage our members to renew before the New Year, in order to avoid any delay in receiving their member benefits!

We are constantly exploring ways to improve communications with our members and the benefits that you receive as part of your membership package. IWA will be introducing the following change to the current member benefits packages:

As from January 2008, individual members who subscribe to our multiyear membership subscription also have the option of subscribing to a multiyear journal subscription package. Full journal prices can be found on our website.

2008 IWA Membership Fees

INDIVIDUAL MEMBERSHIP RATES											
Membership Type	High Inco	High Income Countries			Low Income Countries						
Individual (1yr - 2008)	£55	\$110	€83		£	25	\$50	€38			
Individual (3yr - 2008-2010)	£165	\$330	€249		£	75	\$150	€114			
Student/Retired (1yr - 2008)	£25	\$50	€38		£	215	\$30	€23			
Student/Retired (3yr - 2008-2010)	£75	\$150	€114		£	245	\$90	€69			

CORPORATE MEMBERSHIP RATES												
Membership Type	High Incor	ne Countries			Low Income Countries							
Small (1yr - 2008)	£300	\$600	€459		£150	\$300	€230					
Small (3yr - 2008-2010)	£810	\$1,620	€1,239		£405	\$810	€620					
Medium (1yr - 2008)	£750	\$1,500	€1,148		£375	\$750	€574					
Medium (3yr - 2008-2010)	£2,025	\$4,050	€3,098		£1,013	\$2,025	€1,549					
Large (1yr - 2008)	£1,700	\$3,400	€2,601		£850	\$1,700	€1,301					
Large (3yr - 2008-2010)	£4,590	\$9,180	€7,023		£2,295	\$4,590	€3,511					

If you have any questions about renewing your membership please contact us at: iwamembership@portland-services.com quoting your membership number in the subject line of the email. We look forward to continued collaboration with you in 2008!

Making the most of IWA

HOW CAN I PAY FOR MY IWA MEMBERSHIP?

Payment for your membership can be made in the following ways:

I Bank Transfer - Make payment to Portland Customer Services, Natwest Bank Plc, 25 High Street, Colchester, CO1 1DG, UK - Account # 01863630 - Sort Code: 60-06-06.

Please include full name and reason for transfer, i.e. 'IWA membership' and supply us with details of your date of transfer, amount and bank from which it is coming.

I Cheque or Postal Order - Please make cheque payable to 'Portland Customer Services'

I Credit Card Payment

Please note that payment should be made in £-Sterling, US\$ or Euros. Please ensure that your payment includes ALL bank charges. Use your membership number or full name as reference for the payment.

If you have any queries regarding your payment, please contact Portland Customer Services at Sales@portlandpress.com

Governing members

The Membership Team at IWA HQ would like to wish all the best for the upcoming seasonal festivities and thank all the Governing Members for helping the International Water Association to have a successful 2007. We can now count on more than 50 active Governing Members helping us to promote our organisation worldwide.

Special thanks go to the Governing Members of France, Italy, Japan and Switzerland who contributed with donations to the Global Development Solutions fund.

IWA HQ is planning to have a monothematic article on the water sector and governing membership from different countries in each new issue of the Members newsletter. We kindly invite all the Governing Members to contribute with a piece to give more visibility to their country's water industry. For any further information, please contact Bernie O'Neill (Bernie.Oneill@iwahq.org).

FOCUS ON IWA GOVERNING MEMBERS - The Italian Section of the IWA

The Italian Section (SI) of IWA - IWA-SI - was created in its present form in October 2005 through a deed of constitution drawn up by a notary public. The work of the Association is administered by a Board of Directors composed of 10 members elected by the General Meeting.

The main body of the Italian Section of IWA are, the Institute for Water Research (IRSA-CNR), Federutility, the Italian National Agency for New Technologies, Energy and the Environment (ENEA), and Italy's Higher Institute of Public Health (ISS).

The four founding members are jointly committed to synergising all parties involved in various capacities in the water sector, encouraging the exchange and spread of knowledge, with the aim of improving research and innovation in this vital sector of Italian society.

Each of the four bodies listed above can in turn count on an extensive network of contacts at national level, as described below.

IRSA-CNR is the organisation of the National Council for Scientific Research that is specifically devoted to protecting water from pollution. In particular it specialises in questions relating to the treatment of wastewater. Besides its numerous laboratories distributed in a number of Italian Regions, the organisation collaborates with universities that are at the forefront of research into these matters.

Federutility is the Association of Italian utilities managing the water cycle and energy supply (gas and electricity). It channels the technical and managerial knowledge, and the experience of subjects working in the field, from more than 300 associated companies managing water supply. The companies associated with Federutility are spread throughout Italy and are present in almost every main city that is a seat of Provincial government.

ENEA is a public body operating in the sectors of energy, the environment and the new technologies. It supports policies to promote competitiveness and sustainable development in Italy. It has always been concerned with issues connected with water resources and the environment. Besides its connections with a network of universities, it has its own network of research laboratories distributed throughout Italy.

Lastly, ISS is the principal technical-scientific wing of the National Health Service. It is a public body that combines research with consultancy and training in, and monitoring of, health protection. It is also specifically concerned with issues surrounding water purity as a resource

and water as an essential element of the environment in which we live. ISS can draw on its institutional connections with Ministries and Public Agencies through its network of Local Health Bodies (ASLs) that covers the whole country.

Thanks to the already existing networks of contacts, IWA-SI can convey information to present and future members and function as a national reference point for all Italian IWA members. For this purpose the Italian Section of IWA has set up a website at www.iwaitalia.org

IWA-SI provides its members with the following services:

- A forum for sharing information of all kinds concerning the water sector
- Opportunities for educating the public on efficient water use and protection
- A means of promoting sound, rational and science-based policy-making by regulatory agencies and legislators
- A way of initiating and negotiating legal supervision of collective work contracts
- Investment and development strategies and best practice for the water sector
- Professional training for members
- Technical, managerial and financial consultancy
- Information on research and international cooperation

Notable among the many activities scheduled for 2008 are some highly specialised conferences including:

Sequencing Batch Reactor Technology (SBR4) - Rome 7-10 April 2008

This Conference is one of the very successful IWA International Conference Series. Since Munich 1996, this event has evolved to become one of the foremost worldwide forums on Sequencing Batch Reactor Technology. The growing popularity of SBRs all over the world is well documented as they have proved to be a successful alternative to conventional treatment techniques in many new applications. After Munich 1996, Narbonne 2000 and Noosa (Queensland) 2004, the next SBR Technology Conference will be organised in Rome in spring 2008 www.sbr4conference.com/default.asp

GOVERNING MEMBERS

In the last few months Hungary, South Africa and Iran finalised the payments for their 2007 Governing Member fees. IWA would like to thank the Governing Members of these countries for their support to the Association and our activities.

IWA HQ is planning to have a monothematic article on the water sector and governing membership from different countries on each new issue of the Members newsletter. We kindly invite all the Governing Members to contribute with a piece to give more visibility to their country's water industry. For any further information, please contact Bernie O'Neill (Bernie.Oneill@iwahq.org)

International Symposium on Sanitary and Environmental Engineering (SIDISA) – Florence 24-27 June 2008

This Symposium is the four-yearly conference of the ANDIS (Italian Association on Sanitary and Environmental Engineering). It is being organised this year in collaboration with the Department of Civil and Environmental Engineering of the University of Florence (DICeA). It is an important international and national meeting which involves also the ABES (Associação Brasileira de Engenharia Sanitaria e Ambiental) and AIDIS (Inter-American Association of Sanitary and Environmental Engineering). Furthermore, the Symposium hosts the SIBESA (Italo-Brasilian Symposium of Sanitary and Environmental Engineering), which is now in its ninth edition. This year, a special session dedicated to the theme of "Modelling and Automation of Water and Wastewater Treatment Processes" is planned. SIDISA endeavours to attract a wide range of participants (Universities, Research Institutes, Public Administration, Companies, and Professionals. The Symposium is an important opportunity to outline the state of the art and current national and international trends in environmental protection, management, and monitoring.

www.andistoscana.it



Sala dello Stenditoio Complesso S. Michele a Ripa in Rome, where the SBR4 conference will take place from 7 to April 2008.

IWA Events update

1st IWA Conference at Aquatech China

21-23 May 2008, Shanghai, China

With some 1.3 billion inhabitants driving double digit economic growth, the potential of China has been well documented. China's entry to the WTO and the awarding of the 2008 Olympic Games will see commercial and industrial output grow exponentially; resultantly huge pressure is being placed on China's water infrastructure.

In light of the recent unveiling of the government's new Five Year Plan, there can be no better time to enter the Chinese market. From 2006-2010, no less than 600 billion Yuan (US\$77 billion) will be invested in the Chinese water industry. One third of this will go towards the construction of water supply systems, with the remaining 400 billion Yuan slated for a new water treatment facility.

Aquatech will open its first exhibition show in the Chinese market in 2008 and in order to complement the different topics that will be covered during Aquatech China, IWA will be organising a 3 day conference. This conference will provide the perfect platform for discussion among water experts and a unique opportunity to network.

Proposed Themes:

- Wastewater Recycling and Reuse
- Desalination
- Membrane Systems for Water and Wastewater treatment
- New Technologies on Wastewater treatment

Email: rose.lang@iwahq.org.uk
Website: www.showinfo.nl/aquatechchina2008/e/home

Singapore International Water Week Convention

23-27 June 2008, Singapore

With a special focus on technology and practical delivery, the Water Convention will see water industry experts, practitioners, researchers and academics gather to share the latest advances in water and used water treatment technologies, and examples of the applications of such technologies in urban environments. There will be more than 100 oral and poster presentations on various tracks covering areas such as newly commercialised technologies, innovative solutions in technology, infrastructure financing, and sustainable applications for the urban environment.

Proposed Themes:

- Water Technology Solutions
- Operational Experiences that Matter -Learning and Sharing
- Water Quality & Safety
- Cities of the Future
- The Business of Water

Web:

www.siww.com.sg/waterconvention/index.php

Chemical Industries 2008

9-11 November 2008, Beijing, China

Chemical industries are facing a new challenge regarding sustainable development and production with environmental compatibility. Proper management of hazardous and toxic chemicals is one of the major global concerns for chemical industries.

As the largest developing country, China is severely challenged with water resources shortage and water environment pollution as a result of explosive population growth, rapid industrialisation and improved welfare. The Chinese government is proactively supporting

research on water resource conservation and sustainable water use.

The overarching aim of IWA-Chemical Industries 2008 Conference is to provide integrated, sustainable solutions for water environment protection and remediation, and to prepare a solid background for global expansion of knowledge. The conference will help people within the chemical and water industry to communicate their ideas and practices, and to actively promote collaboration and market development.

Proposed Themes:

- Environmental Policy and Management
- Industrial wastewater discharge control and criteria
- Chemical pollutants toxicity assessment
- Advanced technologies for chemical pollutants
- Special chemical industry wastewater treatment
- Environmental pollution accidents
- Emergent contaminants

Email: DDSun@ntu.edu.sg

DEADLINES

15 January 2008 for submission of abstracts for IWA Regional Conference for Membrane Technologies in Water & Waste Water Treatment (2-4 June 2008, Moscow, Russia)

Contact: iwamembranes@sibico.com

11 January 2008 for submission of abstracts for 2008 IWA North American Regional Membrane Research Conference (10-13 August 2008, Amherst, Massachusetts, USA)

11 January 2008 for submission of abstracts for 11th International Conference on Wetland Systems Technology for Water Pollution Control (1-7 November 2008, Indore, India)

Contact: info@wetland2008.org

Best Wishes to all our IWA Members!

Happy Holidays!

חג שמח!

إجازة سعيدة!

Wesołych świąt!

God Helg!

С праздником!

Joyeuses fêtes!

¡Felices Fiestas!

Auguri!

Festas Felizes!

Frohe Feiertage!

時候の挨拶を申し上げます。

節日快樂!

Kalés proprés!

God ferie!

News from IWA Publishing – www.iwapublishing.com

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

* Institutional Governance and Regulation of Water Services * The Essential Elements



Author: Michael John Rouse

Institutional Governance and Regulation of Water Services provides the key elements of policy, governance and regulation necessary for sustainable water and sanitation services. On policy matters, it covers important aspects of separation of policy and delivery, integrated planning,

sustainable cost recovery, provisions for the poor, and transparency. Regulation and Regulatory Bodies are presented in their various forms, with discussion of why some form of independent scrutiny is essential for sustainability. There is a separate chapter on Drinking Water Quality Regulation including setting standards and discussion on how to incorporate managing risk in regulatory approaches.

Institutional Governance and Regulation of Water Services is an invaluable information source for national and local governments responsible for water policy, for water utility managers, and for students who will be the policy makers of tomorrow. It should also be of value to all those concerned with water policy matters in donor agencies and international banks as well as for academics involved in the teaching of water policy, governance and regulation.

ISBN: 1843391341 \cdot October 2007 \cdot 230 pages \cdot Hardback IWA Members Price: £37.50 / US\$75.00 / e56.25 http://www.iwapublishing.com/template.cfm?name=isbn1843391341

* The Price of Water - 2nd Edition * Studies in Water Resource Economics and Management



Author: Stephen Merrett

The Second Edition of the Price of Water expands on the coverage of the first edition and ambitiously develops the theme of the proper management of river basins, both with respect to the control of rivers' water quality and the defence of their quantitative flows from source to sea.

Using the hydrosocial balance concept of the first edition, and the grand theory of catchment water deficits, a remarkable breakthrough is made in understanding how river flows are destroyed by human society. The scope of the book is broad, dealing with a diverse range of subjects such as regional and catchment planning and integrated water resources management.

ISBN: 1843391775 · September 2007 · 220 pages · Hardback IWA Members Price: £56.22 / US\$112.44 / e84.33 http://www.iwapublishing.com/template.cfm?name=isbn1843391775

* Piggery Waste Management * Towards a Sustainable Future



Author: Euiso Choi

Among animal wastes, piggery waste is the most troublesome. Pig production industries have been growing as the demand for pork meat has increased, and as a result the waste management problem of piggery waste will become more serious in the future.

This book identifies and characterises the key issues involved in dealing with the management of piggery waste and provides recommendations on sustainable treatment regimes.

This work is an invaluable source of information for all those concerned with the research and practice of animal waste treatment. Practising engineers can use this work for planning, design and operation of treatment plants and it is also be suitable as a reference for policy makers and planners.

ISBN: $1843391317 \cdot \text{September } 2007 \cdot 180 \text{ pages} \cdot \text{Hardback}$ IWA Members Price: £56.25 / US\$112.50 / e84.38 http://www.iwapublishing.com/template.cfm?name=isbn1843391317

* Risk Management for the Water Utility Sector *



Author: Simon Pollard

The provision of safe drinking water and the protection of public health and the environment through the treatment of wastewaters is increasingly informed by risk-based decision-making. Aspects of utility management such as process design and optimisation, asset management and compliance

monitoring rely on a mature understanding of process risk within a broader context of business and environmental risk management.

Having provided rationale for the importance of risk management, the text begins with the familiar territory of unit processes and process reliability. It then broadens out to consider, first environmental then organisational risk management. The final sections are concerned with better utility decision-making.

This title belongs to the Water and Wastewater Process Technologies Series

ISBN: 1843391376 · October 2007 · 192 pages · Paperback IWA Members Price: £52.50 / US\$105.00 / e78.75 http://www.iwapublishing.com/template.cfm?name=isbn1843391376

* Flocs in Water Treatment *



Authors: David H Bache, Ross Gregory

Flocs in Water Treatment is the first of its kind - serving as a valuable aide-mémoire for scientists, process engineers and other professionals engaged in water treatment. It provides a comprehensive account of the ways in which flocs are formed, their characterization, and how they behave in

practice. The framework described in Flocs in Water Treatment can also be applied to aggregated solids found both in the natural environment, and within a broad range of industries.

Based on their experiences in research and the workings of full scale treatment plants, the authors offer candid advice on tasks such as the measurement of floc properties and guidance on problems involving the use of chemicals for controlling floc properties within treatment systems.

ISBN: 1843390639 · November 2007 · 296 pages · Hardback IWA Members Price: £60.00 / US\$120.00 / €90.00 http://www.iwapublishing.com/template.cfm?name=isbn1843390639

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