

Since 1956 a worldwide forum on the management of groundwater for the benefit of mankind and the environment

AUGUST 2010

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INTERNATIONAL
ASSOCIATION OF
HYDROGEOLOGISTS

FORWARD LOOK LATEST PRODUCTIVE MEETING HELD IN EARLY JULY

This is written only two days after the meeting closed and immediately before the newsletter deadline. Although somewhat tired as a result, the Secretariat is uplifted by the discussions held and excited by the prospects for the future of IAH.

Twenty four IAH members met for two and a half days in the conference facilities on Reading University's attractive open, green and well wooded campus. While several invitees were unable to attend due to prior commitments and two were unable to obtain visas in time, the assembled group provided an excellent representation of Council, Commissions, National Groups and the broader membership via the questionnaire responses.

Led and facilitated by IAH's Secretary General Shammy Puri, the discussions comprised a mix of plenary sessions and smaller groups. From the initial Forward Look discussion in Hyderabad and taking account of the questionnaire responses, the meeting was structured around five key elements or themes for the future of IAH:

- (1) Enhancing the progress of the science of hydrogeology;
- (2) Enhancing our role in education, training and development;
- (3) Informing and influencing global and national policy;
- (4) Improving the internal operations of IAH – congresses, membership, funding, national groups;
- (5) Strengthening alliances and partnerships with sister associations and external agencies.

While these are not completely self contained and there are overlaps between them, this



Karen Viltholt reports her group's findings

proved to be an effective approach to managing the meeting and directing the discussions. The first three elements could be described as component parts of the overall purpose of the Association, and the final two as embracing many of the ways in which we might improve our ability to achieve our purpose.

Following a warm welcome from President Willi Struckmeier and introductions by each member of the group, Shammy outlined the expectations from the meeting and your Executive Manager provided a short summary of the key points from the questionnaires. This was followed by a lively debate about the vision and mission of IAH, and a draft from Lenny Konikow was tabled as a basis for the discussions which followed.

Participants then chose one of the five elements and in a sequence of small groups and plenary sessions firstly set out the components of each and identified those which



Meeting participants (left to right): Bruce Misstear (Ireland), Luiz Amore (Brazil), Ian Acworth (Australia), Shammy Puri (UK), John Chilton (Secretariat), Vicki Kretsinger (USA), Igor Zektser (Russia), Ken Howard (Canada), Alan MacDonald (Scotland), Karen Vilholth (Denmark), Andrew Stone (USA), Ian Davey (UK), Adnane Moulla (Algeria), Willi Struckmeier (Germany), Antonio Chambel (Portugal), Carlos Molano (Colombia), Lenny Konikow (USA), Tamiru Alemayehu (South Africa), Sophie Vermooten (Netherlands), Enrique Escalante (Spain), Kellie Nicholson (Secretariat) and Didier Pennequin (France). Prabir Naik (India) arrived after the photo was taken due to visa delays and Grace Ssali-Namanga (Uganda) and Mohamed Aboufirass (Morocco) were unable to obtain visas in time.

we need to extend or improve in the future. The groups then tried to answer the questions set to them of why these need to be done and how, who within the IAH should take responsibility for them and when. This approach made for active participation and produced some very lively exchanges and challenging views (while keeping one eye on the football in South Africa on a laptop in the corner). In fact the richness of the contributions and interventions meant that although we were able to prepare a general prioritisation for actions under each of the five elements we did not reach the intended point of having a fully defined future strategy that matched actions to financial and human resources. This is not really a problem as we need a continuing process of involvement of the components of IAH in the refining of this strategy.

So what were the headline outcomes? Catching the newsletter deadline before the meeting has been reported on and shortage of space here make this a little difficult. A small group will be working on a revised mission and vision statement to put before the membership and it is clear that we will need to re-establish a group to work on a strategy for meeting our educational objectives. Improved communication between the constituent parts of IAH – the members, national chapters, commissions, executive and secretariat is a priority and we need to use the web much better than we do now in this respect. Targets for establishing more national groups and increased membership and ways of enhancing

income were discussed, but we were reminded several times that we need to balance any commercial endeavours against the fact that we are and should remain a global family of groundwater professionals and colleagues. Overall, it was a highly productive meeting, and the fruits of this will be developed over the next ten years.

Next steps...

The meeting agreed that it was important to obtain member participation throughout the process, and discussed ways in which this could be done. The outcome of the Forward Look meeting will be presented to Council in Krakow and also reported there to the IAH General Assembly. A formal Forward Look report will be prepared for members, and it is hoped that all of the questionnaire material can somehow be made available to promote further feedback. As an immediate take up of suggestions made in Reading, it is intended to hold a meeting of National Chapter representatives in Krakow to encourage feedback on the Forward Look and to start to implement its recommendations by establishing better communication between chapters and with the IAH centrally. Other immediate initiatives include the already-planned young scientists' session in Krakow and the establishment of a web-based discussion forum or social networking site.

JOHN CHILTON

Stop Press! Keep in touch with IAH friends and colleagues. Our thanks to Sophie Vermooten (Netherlands), who has set up an IAH "LinkedIn" web group. See <http://www.linkedin.com/groups?homeNewMember=&gid=3213735&trk=eml-grp-sub> and join today!

THE FORWARD LOOK QUESTIONNAIRES

THANK YOU FOR YOUR OPINIONS! A SUMMARY OF THE RESPONSES RECEIVED

JOHN CHILTON

As widely reported, a questionnaire was prepared and distributed in April to seek members' views and to assist with the preparation of the Forward Look meeting. Almost 70 responses have been received. Some excellent, helpful and indeed challenging views and ideas were expressed, and formed the basis for invitations to several meeting participants.

There was strong support for IAH's scientific role, which was viewed as an existing strength and a continuing obligation, but with scope for improvement. There was broad consensus that the Hydrogeology Journal as the main focus of our scientific publication had achieved and was maintaining a high standard. There was greater divergence of views about the scientific quality of our congresses and the publications arising from them. Some said that our congresses were excellent and we should have more of them; others that there were too many, too broad in subject matter and of uneven or poor quality. Instead we should consider a mix of meetings of different types, with some more focussed in subject matter, but with higher quality presentations. As meetings are our science 'shop window' and key components of both our membership benefits and our external profile, this was an important element of discussion in the Forward Look meeting.

The most consistent message from respondents was that IAH has key educational objectives which are presently not being met very well. While we already know this, the strength of response is both gratifying and challenging. "Education" in its broadest sense spans most of what we do, and means different things to different respondents - providing scientific and technical training, making technical knowledge available in various forms and formats, support for participation in conferences, being more active and visible at the science-policy interface and raising non-specialist/stakeholder/community awareness of groundwater issues at local, national and global levels. We need to work hard on this.

Answering questions about who we serve and which things we do well and not so well, some respondents were concerned about the "academic club" feel of IAH and the institutional age and gender balance. Addressing this means not just making better efforts to recruit more young members, but also enabling them to participate much better in IAH conferences, commissions and national chapters.

While there was a considerable degree of satisfaction that we serve the membership quite well, we need to improve communication to IAH members about the work of the Association and have better publicity for our meetings and other activities. After education, the second consistent message coming from respondents was that we do not use the internet and our website as well as we should to further our aims by: better internal and external communication, publicity, dissemination of groundwater information of different types, education, discussion groups, reporting the work of the commissions. While again we know this is true, have made some efforts in this direction already and some further improvements are relatively easily made, some of the recommendations require significant resources.

Many respondents found questions about the role of IAH and its external relationships more difficult to answer. While it is clear that IAH has a role to play in promoting the protection and management of groundwater for the benefit of society as a whole, it is less clear how this should be done. Some felt that although there are individual efforts (mainly at the top of the organisation), we don't make enough use of our collective voice or of the deep reservoir of our skills and experience. We have links to the UN system, but not strong enough and perhaps too much on an individual basis, and it is not clear to our members if we are taken note of.

Overall, there was clear consensus that IAH should have both science and policy threads to its work as an international, membership-based NGO, and establish a balance between these two. A key question, therefore, is where the balance should lie and what these two threads should contain, and how activities within each thread should be facilitated, funded, carried out and disseminated. From the respondents' point of view, both threads would have much stronger education components than they do at present.

We would still very much welcome feedback and comments from members. More formal consultation procedures will be developed over the coming months, but in the meantime we would be happy to receive completed questionnaires (see website http://www.iah.org/news_current_popup.asp?id=99 for more details) and your reactions to the reports in this newsletter to jchilton@iah.org. We will also be inviting volunteers to help take forward the various ideas and suggestions - this is only the beginning of the whole process!



IAH ANNUAL GENERAL MEETING, 2010

Notice is given that the 2010 Annual Meeting of the International Association of Hydrogeologists will be held in the auditorium of the Conference Centre of the Jagiellonian University in Krakow, Poland on Wednesday 15th September at 08.30 hours. All members of the Association who have fully paid their subscriptions for the current year are entitled to attend and participate in the proceedings. Guests are welcome.

IAH EXECUTIVE

WORLD WATER DAY 2010

On 19 March our Vice President for Eastern Europe and Central Asia, Igor Zektser gave a lecture in the office of the UNO representative in Moscow for World Water Day. The presentation was entitled "Groundwater Contribution to Water Supply for the Population".

More than 50 students mostly from the Chemical University took part in this meeting. Igor reports that he answered many questions about groundwater use for drinking water supply during the meeting.

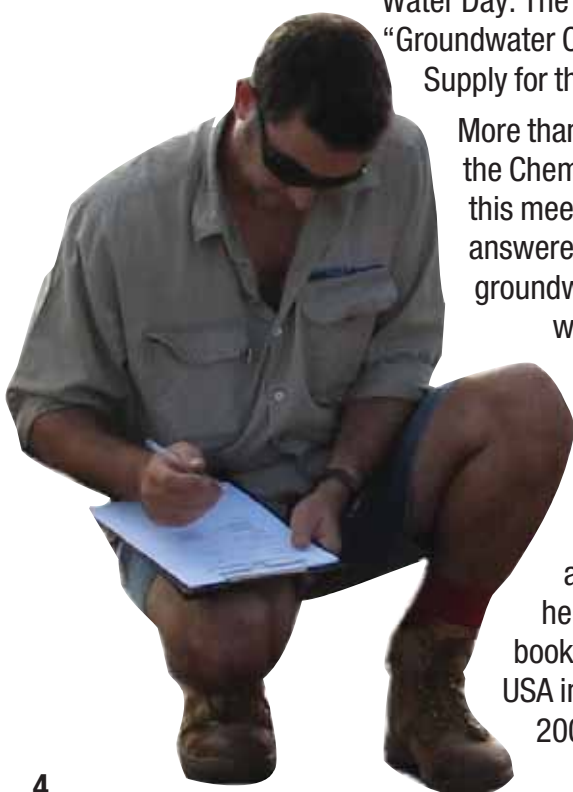
Much of the material used was drawn from the book "Groundwater resources of the world and their use" of which he was Editor-in-chief. The book was published in the USA in 2004 and by UNESCO in 2002. Hydrogeologists from



many different countries participated in the preparation of this book. The picture shows the attentive audience at the presentation.

We would welcome news of contributions from IAH members or chapters to future World Water Day events.

IGOR ZEKTSE
AND IAH EXECUTIVE



CALLING YOUNG/EARLY CAREER HYDROGEOLOGISTS!



Discussion Meeting Convened at IAH Krakow Congress

There will be a meeting for all young/early career hydrogeologists on the Tuesday of the IAH Congress at 16:15. The aim of the meeting will be to discuss how IAH can work to better involve and support those in their early careers and make IAH more attractive to young/early career hydrogeologists. The meeting will be chaired by Mark Cuthbert (University

of Birmingham, UK) who will take forward your suggestions to the IAH AGM later in the week. Please contact Mark at m.cuthbert@bham.ac.uk for more details or if you'd like to be involved in organising and running the meeting. The meeting will be followed by a drinks/social event and we hope you can join us.

MARK CUTHBERT AND JOHN CHILTON

2011 IAH CONFERENCE TO BE HELD IN SOUTH AFRICA

Following the autumn 2009 withdrawal of the Irish National Chapter from hosting the 2011 Congress (as mentioned in the December 2009 newsletter), the IAH Executive has accepted an offer from South Africa to step in and fill the gap. The opportunity will be taken to extend the biennial national Groundwater Division (GWD) conference which was last held in Cape Town in 2009 in partnership with the IAH South African Group. The national meeting will be built up into a regional conference held in partnership with IAH international. The enlarged conference will incorporate the GWD AGM and regular awards, the IAH South Africa chapter meeting, as well as providing opportunities for the IAH Council and AGM and for commission meetings. The theme of the conference will focus on the buffering capacity of aquifers for communities and catchments, and will be finalised along the lines of:

Groundwater: Our source for security in an uncertain future

A conference organising committee comprised of the South African Groundwater Division executive and South African IAH representatives has been

established. A professional conference organiser with whom the national team have worked with before has been appointed. National GWD conferences typically have around 280 delegates but the organisers are expecting around 400 with the extra international participants and are planning to be able to accommodate 500.

The conference will be held in Gauteng (Johannesburg/Pretoria) or surrounds and most of the organising committee are based in Pretoria. A provisional booking has been made at the CSIR conference centre, Pretoria, where previous conferences have been held successfully, and the organisers are also looking at Misty Hills as a good out of town option which has a more African feel.

The IAH Executive is very grateful to our South African colleagues for their timely offer and hopes that members will support this conference. The date for the conference is September 19th to 21st 2011, so please get this into your diaries and schedules for next year and look out for further details!

CHRISTINE COLVIN
AND JOHN CHILTON



IAH SUMMARY REPORT AND NEWSLETTER

Please let us know your views

Many of you will have received this newsletter and the 2009 IAH annual summary report with the same issue of Hydrogeology Journal. The Secretariat puts considerable effort into preparing them, and together with the agenda and papers for the Council meeting at the congress and the half yearly accounts they make June and July probably the busiest time of the year for us. This comes just as our minds are turning to the counter-attractions of an English summer and at the beginning of our own holiday season – university vacations for my daughters and school holidays for the families of Sharon and Kellie.

Please take a little time to read both of them. We have had some very positive feedback about the new look for the reports and newsletters, and are trying to address aspects which have been mentioned to us for improvement. While the Secretariat and our design colleagues can be creative with the layout, maintaining interesting content in both documents depends on what we receive from members, national chapters and commissions. You will, for example, see that having focused on national chapters last time, we have highlighted some of our partnerships in this year's report. This was largely drawn from what we already have in 2009's

newsletters and annual reports. Partnerships are essential to IAH's success, and you will see from the report on the Forward Look meeting at the beginning of the newsletter that one of the five key elements was identified to be the strengthening of existing alliances and partnerships and developing new ones. We have probably missed some in the report; and the Secretariat would be very grateful to hear of any favourite and productive partnerships that should be more widely known within IAH.

Improved communication between the component parts of IAH – Executive, Council, Secretariat, Commissions, National Chapters and individual members was identified as major requirement in many of the questionnaire responses. We already knew we could do better in this respect. At the Forward Look meeting it was also picked out both as a target in its own right and as a means of involving all of IAH in developing other components of our future strategy. So, please keep abreast of developments, watch out for news here and on the website and feed back all comments and contributions to jchilton@iah.org or knicholson@iah.org.

JOHN CHILTON

LATEST IAH BOOK RELEASE

Selected Papers 16: Groundwater Response to Changing Climate Makoto Taniguchi, Ian P. Holman, ISBN 9780415544931

This book provides an up-to-date description of the relationship between groundwater behaviour and ancient, historical, current and future climates for a range of diverse aquifer systems around the world. Groundwater systems are vital to both society and the environment, supporting food production and many other ecosystem services. Sustainable management of this vital resource for future generations requires a sound understanding of how groundwater might respond to the inevitable changes in future climate. In this volume, recent developments within the interlinked areas of the response of groundwater systems to climate variability and climate change are highlighted, using contemporary field investigations and monitoring of aquifers, numerical simulations of aquifer response to climate change predictions and paleohydrogeological studies of ancient groundwater systems. For more information on the Selected Papers series go to http://www.iah.org/publications_books_sp.asp

PRESIDENT'S PAGE

The transformation of IAH into a Charity with its new sub-title THE WORLDWIDE GROUNDWATER ORGANISATION clearly establishes that our purpose is to “to advance public education and promote research (and disseminate the useful results of such research) in the study of knowledge of hydrogeological science” (Articles and Rules of the Association).

One clear way this is achieved is through IAH's sponsored membership scheme.



WILLI STRUCKMEIER

IAH AS A CHARITY

Almost 10 years ago, the status and structures of the International Association of Hydrogeologists were transformed into a charitable company in accordance with UK law. One major objective of this was to give IAH more administrative stability and to make it less vulnerable to personal liability of its officers. IAH is exempted from many taxes and duties, and in turn shall “not undertake any substantial trading duties” and shall “apply its income and property solely towards the promotion of its Objectives.” The Council of IAH maintains the proper functioning of the Association according to its statutes.

Of course IAH cannot make large donations like other charities, because its financial basis is determined largely by the income from membership fees that are maintained at the lowest possible level. The administrative costs are kept to a minimum as well and all officers of Council serve the Association as unpaid volunteers.

The charity functions of IAH are first and foremost focussed on its members. We receive a premium scientific journal (Hydrogeology Journal) free of charge eight times a year. We benefit from considerable reductions for text books published by Taylor and Francis and from reduced registration fees for IAH sponsored scientific meetings. In addition to this, members receive printed and electronic newsletters and have free access to the IAH web site and its members' only area.

Certainly the most rewarding charitable function of IAH is its sponsored membership scheme. This allows members from developing countries to adhere to IAH for a number of years without paying their own membership fees. It started with the strong personal commitment of IAH members willing to take on the membership fees of colleagues in low income countries. Sponsored members enjoying this kind of support usually have a direct personal relationship with their sponsors and in many cases a student – professor relationship led to this. However, this always required a duo knowing each other, i.e. a hydrogeologist working in developing countries or students and hydrogeologists studying overseas.

A second method of sponsored membership has recently become quite popular, as more and more National Chapters of IAH have followed the example of the Irish NC. A lump sum is donated to the sponsored membership scheme and IAH finds suitable colleagues in developing countries who are keen to receive sponsorship. Furthermore, several National Chapters have decided to focus their sponsorship on hydrogeologists or students from one or two countries only, to foster partnerships with countries of their choice with which they may have had historical links or consistent, long-term professional contacts in groundwater.

Colleagues in developing countries have greatly profited from sponsored membership and it is good news that the scheme is gradually becoming more popular. Ten years ago, IAH managed to support some 60 sponsored members. Now this number has risen to 193, with the UK, Australia, The Netherlands, Canada, the USA and Spain ranking highest by the number of sponsored members from low income countries whom they support.

IAH also supports some sponsored members from central funds and in 2009 we established a dedicated Sponsored Membership Fund to help make sponsorship more available. We now have resources in addition to that so willingly provided by individual members and National Chapters. Young scientists or practitioners in low income countries interested in becoming sponsored members of IAH should identify themselves directly to IAH (email jchilton@iah.org). We also invite current members to nominate fellow colleagues deserving of sponsorship to the same address, and ask national chapters to consider increasing their own efforts to identify and support suitable colleagues.

We hope the successful sponsored membership scheme and many other services provided to IAH members and the public that help in serving our objectives will increase steadily and consolidate the Charity status of our Association.

Three notes from Sophie Vermooten and Michael van der Valk

The Netherlands

Need to communicate with non-groundwater experts?

Recently the Netherlands National Chapter published a series of 13 cartoons as a communication tool for presentations and publications for anyone who wishes to trigger an audience to think about groundwater related issues such as 'groundwater ownership', 'groundwater buffer', 'groundwater exploration', 'groundwater monitoring' etc. An example is shown here.

How vulnerable is groundwater?



The cartoons can be downloaded from the chapter's new website:

<http://www.hydrology.nl/iahpublications/201-groundwater-cartoons.html>

Isotopes and tracers in hydrology and Henry Darcy Lecture 2009

In November 2009 the Netherlands National Committee IHP-HWRP and the VU University Amsterdam together with the Netherlands Hydrological Society (NHV), the Netherlands Chapter of the International Association of Hydrogeologists (IAH) and the US National Ground Water Research and Educational Foundation (NGWREF), organised a symposium on recent progress in the use of environmental isotopes and other tracers in hydrological research. Seventeen years earlier, in November 1992, the NHV had organised a meeting on isotopes in hydrology which resulted in the first special publication of the society.

The symposium included the Henry Darcy Lecture Given by Dr Peter Cook of CSIRO Land and Water (Australia) and supporting presentations by Professor Stefan Uhlenbrook (VU and UNESCO-IHE), Dr Pieter Stuyfzand (KWR and VU) and Dr Ate Visser of Deltares. The symposium was a contribution of the Netherlands to the International Hydrological Programme (IHP) of UNESCO and the Hydrology and Water Resources Programme (HWRP) of WMO. [For more information go to www.hydrology.nl](http://www.hydrology.nl).

The publication 'Arsenic in groundwater – a world problem' is still available in hard copy format. It can be ordered by contacting Sophie Vermooten, sophie.vermooten@deltares.nl. It is also available digitally at <http://www.hydrology.nl/iahpublications/70-arsenic-in-groundwater.html>

AUSTRALIA

News of the sponsored membership scheme in action

As mentioned in Willi's President's Page, several National Chapters sponsor IAH members in developing countries. This story is from Ethiopian member Girum Admasu who is studying for a Masters degree and is sponsored by the Australian Chapter, and we are grateful to them for passing on this story. It will be familiar to those of us who have been in the field with a rig and an air photo with the imperative of locating a good supply.

Finding productive drilling sites in difficult terrain with limited information and the rig waiting is the real stuff of hydrogeology, and I don't think any of us can call ourselves the proper thing without having gone through this at some time in our careers. We would be very happy to receive more reports for the newsletter from our sponsored members.

"One of the stories I always tell to everybody is a case where I was involved with site selection for drilling water supply wells and supervising at the same time. It was in a regional capital of northern Ethiopia. I was supposed to do this job alone and with only an aerial photo. When I arrived there, a colleague of mine had started to drill a well and submitted it to me with the aerial photo with no stereoscope to interpret it. Soon after he left the drilling, one of the wells he started was completed, and I have to find another one. I assumed I found one site and mobilised the crew and machinery to the site.

Unfortunately that site became less productive than I expected in that well field. Therefore I started again to look for a second site even if I was not happy to do it. I assessed the site by moving around the proposed well field. Actually I found some hint of getting a site for the rig following my trials to drill and produce water. A dyke and a place that was submerged a little below the surrounding. Although I still had doubts of finding this hidden source, I again mobilised the machinery and the crew to the site. There came my happiness as they reached only 20 m, and the machine had difficulties drilling it due to the excess water. At that time my nightmare ended and I was successful in exploring and supervising at the same time."

Girum Admasu

KRAKOW 2010

Update on preparations



The 37th IAH Congress on “Groundwater Quality Sustainability” to be held from 12th to 17th September 2010 is approaching fast. The Polish Chapter of IAH and the AGH University of Science and Technology is eager to host participants in the Royal Capital City of Krakow which is included on the UNESCO World Heritage List. Not only is Krakow rich in history and traditions, the organising committee claims that the city centre has the greatest density of bars and restaurants in Europe!

The organisers report that there has been an enormous response for the Congress, with over 400 abstracts submitted for oral and poster presentations. Based on preliminary registrations, some 500-600 delegates from over 40 countries are expected to participate, which provides great prospects for a successful event.

The technical programme of the Congress offers plenary sessions with invited speakers, parallel

sessions with oral presentations, thematic poster sessions and a mid-Congress field trip. Round-table discussion led by IAH, IAHS and UNESCO representatives is planned on groundwater quality issues in the context of the UNESCO Year of Water Quality. The programme includes sessions for IAH Commission meetings and the IAH General Assembly. A full day’s IAH Council Meeting is planned so that Council Members and other participants can hear about and reflect on the outcomes of the Forward Look meeting (reported elsewhere in this newsletter) and contribute their own ideas to the future directions of IAH. A meeting for young/early career hydrogeologists will be organized to discuss how IAH can better involve and support those in their early careers and make IAH more attractive to them and a meeting of National Chapter representatives is also planned.

The social programme will include a reception, a musical performance at the Mariacki Church, and the Conference Banquet at the Slowacki Theatre. There are three optional Post-Congress tour alternatives: the Tatra Mountains, Upper Silesia and Lower Silesia regions to enable participants to get out into the countryside of South-West Poland.

The organizing committee is looking forward to hosting the Congress and welcoming you to Krakow in September.

STANISLAW WITCZAK AND JOHN CHILTON

See congress website:
<http://www.iah2010.org>

IMPORTANT INFORMATION ABOUT FLIGHTS

The congress organisers have informed us that Warsaw airport will be closed at weekends during September for runway repairs. You are advised to fly directly to Krakow, which is possible from many European cities or, if coming from further afield, to make your flight connections avoiding Warsaw. Further details of the closures are given on the congress website.

7TH INTERNATIONAL SYMPOSIUM ON MANAGED AQUIFER RECHARGE

Latest news on ISMAR7

To be held in Abu Dhabi, UAE on 9th-13th October 2010, the 7th International Symposium on Managed Aquifer Recharge (ISMAR7) will bring together the world's experts in managed aquifer recharge along with leaders from government agencies, utilities, industry, and consultants who have been entrusted with achieving sustainable and reliable groundwater supply. The ISMAR conference series is a joint venture of the IAH and ASCE that aims to expand water resources and improve water quality in ways that are appropriate, environmentally sustainable, technically viable, economical, and socially desirable.

The location is an area of the world known for its pressing water needs, scarce surface water, and diversity of landscapes, lithologies, technologies, and cultures. The high demand for water in the Middle East is setting the pulse for ISMAR7, which will be of tremendous value for areas that have, or will soon have, high demand for water. The organizers have arranged three workshops and two more will be finalized soon. The currently scheduled workshops are as follows:

- Aquifer storage and recovery: how to identify and tackle technical issues
- Integrated field to office technologies for aquifer storage and recovery projects



- Where is MAR the best option for securing drinking water supplies, and how?

Over 80 presentations and 100 posters are planned to provide opportunities to learn about managed aquifer recharge. ISMAR7 presents a great opportunity to join global leaders in subsurface water management and to hear about cutting-edge innovations and industry-leading knowledge and expertise, and to gain insight into the latest developments in managed aquifer recharge. This will be provided by presentations on the latest scientific advances and innovative techniques, case histories and discussion sessions. Early Bird registration ended on 9th July 2010 and regular registration begins on 3rd September.

MARC BUBEL

Visit www.ismar7.org for more information

ADVERTISE IN THE IAH NEWSLETTER

We have decided to reduce our commercial advertising rates to €300 per full page and €200 per half page, with additional discounts for corporate members and corporate sponsors. We hope this will encourage more advertising in the newsletter, and we urge IAH members to encourage their employers to take advantage of these reduced rates to reach the substantial audience of groundwater professionals represented by our 3900 members. Further details are given at the foot of page 12.

2010

12-17 September: Krakow, POLAND. Groundwater Quality Sustainability. 38th IAH Congress. Organised by IAH Poland NC. Web: <http://www.iah2010.org>

15-16 September: San Francisco, USA. Thinking Outside the Pipe: Exploring and Protecting Local Water Supplies. GRAC 19th Annual Conference and Meeting. Organised by Groundwater Resources Association of California. Web: <http://www.grac.org>

20-23 September: Prague, CZECH REPUBLIC. HydroPredict'2010 -- 2nd International Interdisciplinary Conference on Predictions for Hydrology, Ecology, and Water Resources Management: Changes and Hazards caused by Direct Human Interventions and Climate Change. Web: <http://www.natur.cuni.cz/hydropredict2010/>

22-24 September: Valencia, SPAIN. Fourth IAHR Groundwater Symposium. Organised by International Association of Hydraulic Engineering. Web: <http://iahr2010-gw.com>

9-13 October: Abu Dhabi, UAE. ISMAR7: Achieving Water Supply Sustainability and Reliability Through Managed Aquifer Recharge. Web: <http://www.ismar7.org/index.php>

10-16 October: Yogyakarta, INDONESIA. Improvement of irrigation and drainage efficiency under the small land holding condition. 61st IEC and 6th Asian Regional Conference. Organised by International Commission on Irrigation and Drainage (ICID). Web: <http://www.icid2010.org>

11-13 October: San Diego, USA. The Changing Physical and Social Environment: Hydrologic Impacts and Feedbacks. Organised by Elsevier. Web: www.hydrologyconference.com

18-22 October: Adana, TURKEY. Seventh International Symposium on the Geology of the Eastern Mediterranean. Organised by Cukurova University. Web: <http://www.geology.cu.edu.tr/ISEMG2010/>

20 October: London, UK. Ineson Lecture 2010. Nico Goldscheider with supporting speakers,. Organised by British National Chapter of IAH and the Geological Society of London. Email: beod@bgs.ac.uk

31 October- 4 November: Canberra, AUSTRALIA. Groundwater2010 - the challenges of sustainable management. Organised by GSA Engineering, Environmental and Hydrogeology Specialist Group and IAH Australia NC. Web: <http://www.groundwater2010.com>

23-26 November: Santiago, CHILE. Mine Closure 2010 - V International Conference on Mine Closure. Web: <http://www.mineclosure2010.com>

6-8 December 2010

Paris, FRANCE. Transboundary Aquifers - Challenges and New Directions. Organised by UNESCO IHP and IGCP Programmes, IAH and UNEP. Web: <http://www.isarm.net>

[For a fuller list of conferences and more details, including links to websites visit www.iah.org/conf/](http://www.iah.org/conf/)

We are happy to accept information concerning upcoming groundwater events from organisers email knicholson@iah.org with full details.

ADVERTISING AND COPY INFORMATION

IAH News and Information is published 3 times a year and distributed as an insert in Hydrogeology Journal. It reaches all members and associated members of the International Association of Hydrogeologists and subscribing members of the Geological Society of America – a distribution of around 4000 individuals.

Advertising rates are €300 per full-page advert and €200 per half page. These rates apply for one issue. If you take an advert in two successive issues then the third is offered free of charge. Corporate sponsors and corporate members of IAH are entitled to 50% off the above rates. Copy must be provided electronically - please contact knicholson@iah.org for acceptable formats. You will be invoiced for payment in euros or at the equivalent rate in sterling or US dollars when the advertisement is agreed. Copy dates are 1 March, 1 June and 1 October.