

NEWS

& information

IAH - THE WORLDWIDE GROUNDWATER ORGANISATION

Furthering the understanding, wise use and protection of groundwater resources throughout the world

AUGUST 2011

PICTURE THE IAH - WINNERS REVEALED

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INTERNATIONAL
ASSOCIATION OF
HYDROGEOLOGISTS

As reported in last December's issue of News and Information, IAH needs images to use in its website, publicity material and reports. Instead of buying stock photos the Secretariat decided that it would be much better to seek groundwater images from IAH's membership.

A photo competition was announced and widely communicated to IAH members. We asked everyone to consider the role of IAH in the world and submit images under a variety

of categories. Prizes of Amazon vouchers and IAH books were offered and the winners were chosen by IAH's Executive at their meeting in mid-June.

We were delighted with the response and highly impressed with the quality of images received. We would like to thank everyone who took the time and trouble to enter the competition - the winning photos are overleaf.

SECRETARIAT



Keep up to date: visit our website for the latest information and more www.iah.org

Contact us: email info@iah.org with your news, views or questions

PICTURE THE IAH

Once again, thank you to everyone who took part in our competition. Here are the winning photos by category. IAH will put all the images to good use soon.

EDUCATION IN ACTION

We received a good number of entries for this category. After reducing them down the judges struggled to choose between two excellent images and eventually decided that both were worthy winners. Each particularly highlights IAH's role in educating others; they also show the human side of groundwater.



Winner 1: Hamid R. Jahani (Australia)
Local people being trained on Integrated Water Resources Management in Urmia Lake basin, northwest of Iran.

Winner 2: Harald Zauter (Germany)
Explaining drilling operation to students in Namibia.



Could you do better? Miss the sight of some female groundwater specialists?



OUT IN THE FIELD

This category, perhaps not surprisingly, received the most entries all of which were extremely good quality. The judges were interested to see what IAH members have been up to, and also the different locations.

There had to be a winner, and this image was chosen as it clearly shows someone hard at work - out in the field - the judges were also pleased to see the worker wearing something to protect his eyes!

Winner 3: Tim Robson (Australia)
A Masters student conducting field work.

A PROBLEM SOLVED

Again, a good number of entries were received. The judges selected this winner as the photo shows a very common sight for those involved in groundwater.

Winner 4: Richard Carter (UK)
Water well drilling in Ethiopia.



GROUNDWATER PROTECTED



IAH received fewer entries for this category, possibly because the description was not clear enough. Despite this one of the entries was particularly vivid to the judges, and the Secretariat anticipates that IAH's web and graphic design teams will be excited to work with the winning image.

Winner 5: Lee Evans (Australia)
Upstream, groundwater discharges into the gorges of Karijini National Park, Western Australia.

IAH plans to organise more competitions for its members. [Watch this space.](#)

IAH EXECUTIVE MEETS AGAIN

With so many new initiatives and activities going on at once, it has become inevitable that the traditional IAH Executive meeting at the beginning of each year is not sufficient to properly conduct the Association's business. The executive of a national association of the size and complexity of IAH would probably meet at least quarterly. With IAH's Executive and Council members so widely dispersed, we of course have to be mindful of the cost of such meetings, and of the time away from full time jobs. Balancing these considerations, the Executive met in Oxfordshire in the UK from 16th to 18th June.

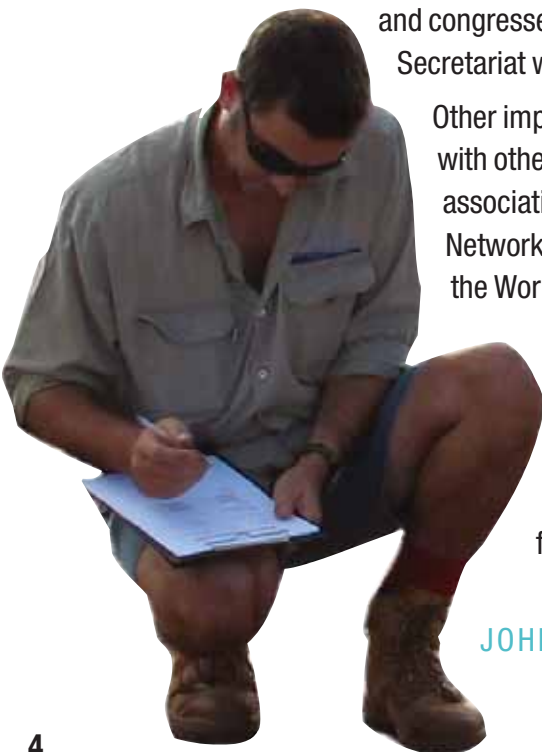
The long working agenda included review of actions undertaken since the meeting in February, of the 2011 first quarter accounts and of the working arrangements of the Secretariat and Executive. Despatch of membership renewal letters for this year was delayed by a few weeks due to the updating of the database but by the time of the Executive meeting we had 3517 members, so renewal is proceeding well.

The most substantial discussion focussed on the outcome of the review of IAH's commissions, which is separately reported on pages 6 and 7 of this newsletter, and on the start up of the GEF project, for which the Letter of Agreement with FAO has now been signed. Responses to the open invitation to IAH members to participate were considered and potential lead authors for the four thematic papers for which IAH will be responsible were selected. Preparation of these papers will be the major task within the project during the second half of 2011.

There was also substantial discussion of the IAH Forward Look. Pressure of work has meant that the draft plan of action has not seen the light of day as promised. It was agreed that this must soon be made available to the membership and the Secretariat is currently working on a summary version for distribution. In the meantime, Lenny Konikow and Antonio Chambel have been hard at work on a draft paper with recommendations for IAH conferences and congresses. For the further development of the IAH website, it was agreed that the Secretariat would prepare a proposal for the Council meeting in Pretoria in September.

Other important items on the agenda included existing and potential partnerships with other associations such as IAHS, the NGWA, ABAS (the equivalent groundwater association in Brazil), Hydrogeologists Without Borders and the African Groundwater Network and participation of IAH in international activities and meetings such as the World Water Forum, Stockholm Water Week and the UNESCO IHP. President Willi Struckmeier had, for example, recently attended the Bureau meeting of the IHP which presented an opportunity for IAH to argue for enhanced groundwater activities within the next phase of the programme. Overall, it is clear that effective operation of IAH requires the Executive to meet more than once a year, and a mid-year meeting is likely to become a permanent feature of the annual calendar.

JOHN CHILTON, SECRETARIAT



UPDATE ON IAH BOOKS

IAH has two parallel book series which are published for us by CRC Press/Balkema within the Taylor and Francis Group. The green books are the Selected Papers (SP) collection and the blue ones the International Contributions to Hydrogeology (ICH).

The SP series is thriving and mainly contains selected papers from IAH Congresses. The ICH series is intended for reference books with a longer anticipated lifespan containing work that is of major interest to the international hydrogeological community. The last of these, *Methods in Karst Hydrogeology* by Nico Goldscheider and David Drew, was published just over three years ago. There is one book in this series currently in preparation – *The impacts of climate change on groundwater resources* by Holger Tiedel, Jose Luis Martin-Bordes and Jason Gurdak. This describes the case studies in the UNESCO-GRAPHIC project, partly based on IAH Commission outputs and is a good example of the role the ICH books should play.

The IAH blue books are written either by an individual or a group of authors. It is said that every person has at least one book in them. If you have not written your book yet then this is your chance as we urgently need proposals for the ICH series. Possible ideas could include: use of GIS in hydrogeological investigation, 3D groundwater modelling, process modelling, hydrogeochemical investigations. If you have an idea,

please talk to books Editor Nick Robins at nsro@bgs.ac.uk. If this book series is to survive, we need your help right now!

Nick and Executive Manager John Chilton recently met with Taylor and Francis to review book publication. From this we learnt that the ICH books have been selling well and are profitable for Taylor & Francis, but the SP series have more variable sales figures. Those with a more restricted geographical or subject focus have a more limited market. We also learnt that the 60% discount for IAH members which was inherited and honoured by T&F is very high for the book trade and not easy for them to defend to the parent company. Despite this very substantial discount, relatively few books are actually sold to members, and you are urged to look again at the book sales section of the IAH website and consider purchasing our books. Finally, there was also agreement that it was time to review the cover design and internal layout of the books to make them more attractive and up to date.

JOHN CHILTON

Email Nick Robins, IAH books Editor, with your ideas nsro@bgs.ac.uk

NATIONAL CHAPTER QUESTIONNAIRE

As part of the Forward Look IAH is seeking information and comment from its chapters, and a questionnaire was circulated in the spring. At the time of writing we have received 13 chapter replies, and would still like to receive more. Please ask your national committee to respond if they have not already done so. The ones we have been sent confirm the need for improved communication, especially via the IAH website. The Executive considered them briefly at the meeting in June and a more complete report will be compiled for consideration by Council in Pretoria.

IAH ANNUAL REPORTS

Members are urged to look at the Association's annual report which is also distributed with this issue of the *Hydrogeology Journal*. It provides a summary of activities in 2010 and brief financial statement, and this year features the services that are provided to individual IAH members. This, together with a longer report and detailed accounts can also be seen on the IAH website.

http://www.iah.org/publications_annual_reports.asp

COMMISSIONS & NETWORKS

Latest news on the review undertaken by IAH, coordinated by Ken Howard



On the starting block - IAH Commissions and Networks are now ready to go

Members will recall from previous newsletters that a review by the Association of its existing commissions and networks has been underway over the last 2 years.

As part of the process, formal re-applications from existing commissions and new applications were solicited during the early part of 2011 for start up from the beginning of July. The applications have been reviewed by the IAH Vice-President for Scientific Programme Coordination, Ken Howard and by the IAH Executive at an additional meeting in June 2011. The recommendations were immediately sent to Council for approval.

The table on the next page summarises the outcome. The second column records the type of group for which the application was made and the third and fourth columns the recommendations to Council for the category and initial length of tenure respectively. One reason that they are not all the same length is to phase the work of reviewing so they do not all come due at the same time.

The proposed new networks on Groundwater and the Millennium Development Goals (MDGs) and Sustainability of Drinking Water require further development and

refinement in terms of their geographical spread, technical scope and potential for overlap with each other and with the Burdon Network. The MDG proposal comes from Australia/Iran and that on Sustainable Drinking Water Needs from India. The proposers of the latter have been encouraged to shorten the name, and this network may not commence until later in 2011. These proposals were good and the Executive felt it was desirable to encourage applications from new areas within the Association's membership.

The new groups for young professionals and for outreach were also strong proposals and address the message from the Forward Look process that the Association needs these to help fulfil its long-term educational objectives, and we are very happy to see these established.

No applications for renewal were received from the existing commissions on Groundwater Dependent Ecosystems, Transboundary Aquifers, Groundwater Protection, Hydrogeological Maps and Mineral and Thermal Waters. According to the already agreed review process, these commissions will therefore cease to exist from 1 July, although future re-application in any of these fields is not, of course, ruled out. In particular, we were disappointed not to receive a proposal in the field of groundwater and ecosystems, where there is clearly scope for IAH to undertake scientific activities. Groundwater quality is also less well covered by the new groups than previously, and we may seek to encourage proposals in these areas.

JOHN CHILTON AND IAH EXECUTIVE

Name	Application	Recommendation	Tenure (years)
<i>Existing Commissions: re-applications</i>			
Commission on Aquifer Dynamics and Coastal Zone Management	Network	Network	4
Commission on Groundwater and Climate Change	Commission	Commission	4
Commission on Hydrogeology in Urban areas	Network	Network	5
Commission on Hydrogeology of Karst	Commission	Commission	6
Commission on Managing Aquifer Recharge	Commission	Commission	5
Burdon Network	Network	Network	4
<i>New applications</i>			
Groundwater and the MDGs	Commission	Network	4
Ensuring Sustainability in Drinking Water Needs Through Capacity Building in Rural Areas	Commission	Network	4
Early Career Hydrogeologists' Network	Network	Network	4
Groundwater Outreach to Decision Makers	Commission	Commission	4
<i>Requiring further work</i>			
Commission on the Hydrogeology of Hard Rocks	Commission	Request to re-submit	-
Gravitational Groundwater Flow	In preparation		-



Find out more...

If you are interested in joining one of the commissions or networks, further information is available on IAH's website http://www.iah.org/about_commissions.asp or by contacting info@iah.org. Wide membership involvement is encouraged as this will greatly help the groups to thrive. If you would like to join up, please inform jchilton@iah.org and we will pass on your message to the relevant commission or network chair.

Further proposals or ideas for commissions, networks or other scientific groups are always welcome, and an application form can be obtained either from Ken Howard at gwater@utsc.utoronto.ca or from the IAH Secretariat, info@iah.org.

Now its over to you...



MEDIA FOCUS

A selection of groundwater features from around the world

Carcinogen Found in Groundwater Near Camp Carroll (Korea)

Traces of tetrachloroethylene, also known as perchloroethene or PCE, have been found in the underground stream and groundwater near a U.S. Forces Korea base. The findings follow the discovery of small traces of dioxin in the groundwater there, apparently as a result of the dumping of the lethal defoliant Agent Orange at Camp Carroll in Chilgok, North Gyeongsang Province. PCE, chiefly found in solvents, is a carcinogen that attacks the nervous system and can cause reproductive problems.

17 June 2011, The Chosun Ilbo

http://english.chosun.com/site/data/html_dir/2011/06/17/2011061700328.html

Detection of Radioactive Materials from Subsurface Water near the Turbine Buildings of Fukushima Daiichi Nuclear Power Station (Japan)

We [TEPCO] conducted nuclide analyses (strontium) regarding sub-drains (subsurface water obtained and managed in the site) near the turbine buildings of Fukushima Daiichi Nuclear Power Station, whose sample was taken on May 18th. Since, as a result, strontium -89 and -90 were detected, we reported the fact to NISA and the government of Fukushima Prefecture today.

12 June 2011, TEPCO news release

<http://www.tepco.co.jp/en/press/corp-com/release/11061209-e.html>

Strawberry boom is a drain on Spain

Spain is the biggest exporter of strawberries worldwide, with an industry worth more than 400m euros (£345m) a year, which supports around 50,000 jobs. Intensive agricultural methods mean the fruit can be grown all year round. But there is not enough water to supply this huge industry. According to the local water agency, as many as half of all strawberry farms in this region are taking water illegally. The conservation group World Wide Fund for Nature (WWF) says there are more than 1,000 illegal boreholes in the area, pumping water from deep underground. But that water is also what feeds one of Europe's most important wetlands, the Donana National Park. Donana is home to rare species like the Iberian lynx, and settled by migratory birds from Africa. It has been designated by Unesco as a World Heritage Site and a biosphere reserve. Its marshes are fed by underground aquifers.

27 May 2011, © BBC News 2011

<http://www.bbc.co.uk/news/world-europe-13546715>

Our Spanish colleagues will be well aware of this issue (Ed)



Contributions are invited, even if the articles are not written in English.
Email the news item and/or link to knicholson@iah.org.

MEMBER BENEFITS



IAH - SOCIAL MEDIA

Latest updates from LinkedIn network

Less than a year from the start of the IAH LinkedIn group, 408 IAH members have joined (information as at 6th July 2011).

Discussions have included various groundwater related topics and dissemination of interesting articles or PhD theses. The site is also now being used to post job advertisements, tenders for projects, awards and competitions. A sub-group has been set up for the new Young Hydrogeologists' network. Other sub-groups may follow.

The set up of this social medium enables members to keep control over personal information they want to share on their career path and the organisation they are affiliated to. This is valuable information to anyone who wishes to expand its network of professional contacts. Isn't that one of the reasons why we joined the IAH in the first place?

Help reach IAH's target for 500 in the group by its first birthday!

To find out more and join go to <http://www.linkedin.com/groups?home=&gid=3213735>



IAH WEBSITE SURVEY

Last call for opinions

During IAH's Forward Look review over the last 12 months, consistent messages have been received from our members urging improvements in structure, navigation and content of the Association's website.

Some improvements have already been made, but we want to do much more, so we are seeking your opinions as a user or potential user of IAH's website. The survey is open to all, whether or not you are a member of IAH - we hope that improved website services will help attract new members. All responses will be treated anonymously and together will help shape IAH's website developments in the future. The more responses we receive, the better, so thank you in advance for taking part in the survey.

To participate go to http://www.iah.org/news_current_popup.asp?id=114 and follow the link.

P.S. Thanks to those who have already submitted responses. Your comments have been fed back to the Executive during its recent meeting.

60% DISCOUNT ON IAH BOOKS

IAH members can take advantage of a generous 60% discount on IAH titles from Taylor and Francis.

Latest releases include, in the Selected Papers series, "Groundwater Response to Changing Climate", Taniguchi and 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.

Go to http://www.iah.org/publications_books.asp

Report courtesy of British Geological Survey

SOUTHERN AFRICA

Growing interest shown in SADC groundwater web-based archive

Image source: <http://www.wikimedia.org>



The SADC (Southern Africa Development Coordination) 'Groundwater Data and Information Archive: Knowledge Sharing and Co-operation' project, funded by the German Agency for International Cooperation (GTZ) and DFID, was mentioned in last month's newsletter.

The project, initiated in September 2009 has identified, catalogued and promoted access to a large collection of reports held by the British Geological Survey (BGS). The work focused on a wealth of unpublished so-called 'grey literature' documents describing groundwater occurrence and development in Southern Africa gathered by BGS staff over many decades of involvement in the region. Historical

documents, mainly dating from 1890 to 1970, are archived at the main BGS library at Keyworth and project reports and related data produced by BGS hydrogeologists working in SADC countries since 1970 are held at Wallingford.

The Keyworth documents provide insight into the importance of groundwater to the economic development of the former British colonial territories. At that time, exploration and development of groundwater, held within weathered and fractured basement complex rocks that underlie much of the land area of these countries, was undertaken primarily by national geological surveys for departments of water, irrigation and public works. These documents show how early electrical resistivity apparatus was used to locate borehole sites subsequently drilled using steam driven drilling rigs. Boreholes and wells were located mainly as sources of water for townships, railways and cattle trek routes.

The Wallingford documents provide information on groundwater exploration, research and development in the fifteen SADC member states, especially those where BGS hydrogeologists were seconded to support activities within geological surveys. Major projects were undertaken in Malawi, Zimbabwe and Botswana where studies were made of groundwater occurrence in the weathering profiles and fractures in Basement Complex aquifers. Assessment of reports from other SADC countries indicate that similar studies were undertaken at that

time by Scandinavian consultants in Tanzania, by Portuguese hydrogeologists in Mozambique and French geologists in Madagascar and west Africa.

The archive comprises an electronic meta-database describing 1753 documents held in hard copy. Of these, 1041 have been scanned digitally to searchable PDF format. A subset of 655 PDF items is now available to download at no charge. Interest is coming both from within SADC and elsewhere, accessed by directly addressing the website or via a search engine. The results of the first four months of website operation are encouraging, with 34 visits per day and interest shown by visitors from 103 countries.

The project website demonstrates that workable approaches to portal architecture, intellectual property and collaboration with regional partners can be developed. The searchable PDF content enables visits to the website to be generated using search engines. This content shows where additional detailed information and data are potentially located, thus forming a valuable research tool. Site expansion will require positive input by institutions using experienced personnel actively archiving documents gathered from government institutions and consultants. The website content could be expanded to three times its present size as only 50% of the documents gathered so far have been scanned and only 50% of these have been presented on the website as downloadable PDFs. As yet there have been few organisations or individuals offering additional material to be lodged on the website.

This is a pilot project providing an example of

how Web delivery of an archive is an important step forward for groundwater in the SADC region. Potentially, this dataset will form the basis of an expanded metadata set to be developed by contributions of 'grey data' from SADC Member States. This expanded regional resource will eventually be administered by the SADC Groundwater Institute. The project could be used as a model for establishing similar groundwater metadatabases for other regions of Africa and elsewhere in the world.

Access to 'grey' data is important. The project is timely, given the urgent need for water supplies and sanitation in Africa, and the heightened interest in historical 'baseline' groundwater resource conditions in the context of changing climate and land-use. Moreover, the relative decline in public-sector capacity in some African countries over the last two decades has resulted in the loss of numerous documents. In some cases the material in the web archive may be the only accessible copy remaining. The archive contributes hugely to the available and accessible groundwater data from sub-Saharan Africa, and goes a long way to preventing the 'reinvention of the wheel' and enabling practitioners to learn from the cumulative knowledge and better address groundwater development issues.

You are invited to visit the website at <http://www.bgs.ac.uk/sadc/index.cfm> and to contribute any suitable material that you may have to augment the archive and to improve the information available.

JEFFREY DAVIES
BGS, WALLINGFORD, UK

Articles welcomed; email jchilton@iah.org

CHAPTER NEWS

Ireland

Group Conference 2011

The 31st Annual IAH Irish Group Conference took place on 12-13 April in Tullamore, Co. Offaly; with the overall theme of 'Evolving Hydrogeology'. The event opened with an invited keynote presentation by President Willi Struckmeier, on IAH's role in the evolution of hydrogeology. Session 1 dealt with the ways in which practitioners are improving and applying our understanding of surface water and groundwater as an integrated resource with emphasis on modelling. Groundwater flooding mechanisms and flood mapping in Ireland were also discussed. Session 2 explored issues surrounding groundwater contamination from unregulated landfill sites, with perspectives from the regulator and from consultancy, with Session 3 looking at management of contaminated groundwater, with focus on different remedial options, regulatory approaches and case studies on remediation in Ireland. Student presentations (to accompany posters) were made between Sessions 2 and 3 and covered a wide range of research topics related to the sub-themes of the Conference. There was a wine reception at the close of the first day, followed by a social event in a local bar, which was a great success with almost half the delegates participating in dinner, music and dancing.

On the second day Session 4 looked at groundwater development in the extractive and geothermal industries with an initial presentation on mine dewatering from an international perspective. Following this, development of geothermal energy; how it works, the international perspective and its applicability and current status in Ireland were all discussed. The final Session of the conference looked at the management of groundwater resources with respect to nutrients and metering to reduce abstraction.

Given the current national economic situation, the conference was once again extremely well attended, with 165 attendees; including speakers, delegates, exhibitors and committee members. The overall level of support for the conference not only reflects the relevance of the talks being presented, but also the pedigree of the speakers. Approximately 20 exhibitor stands from industry, including drillers, laboratories, equipment suppliers and consultants were set up at the conference. The proceedings of the 2011 Conference will shortly be available for download at: <http://www.iah-ireland.org/current/pastevents.htm>

MATT CRAIG, IRISH NC

NEW NATIONAL CHAPTERS FOR IAH

Amongst the targets arising from the Forward Look was a desire to build up the individual membership of IAH and to increase the number of national groups. To this end, new initiatives have recently been established with IAH members in Sweden and Sri Lanka and existing discussions between the Secretariat, Regional Vice Presidents and national colleagues are being reactivated for Tanzania, Malawi, Turkey and Bosnia-Herzegovina.

We are also in discussion with colleagues in India with a view to re-activating the IAH national chapter and strengthening our presence and profile

there, and with ABAS, the Brazilian Groundwater Association, about how we can establish better links with them to promote IAH in Brazil.

If on reading this you are interested in helping to set up a national chapter in your own country where one does not already exist, then please get in contact with the IAH Secretariat. We can provide information about the other IAH members in your country and also guidance on how to set up a national IAH group.

We look forward to hearing from you.

SECRETARIAT

YOUNG STUDENTS ENJOY A JOB SHADOW DAY



In May 2011 PELA GeoEnvironmental sponsored a Job Shadow Day at Rock Quarry Elementary. PELA is a Rock Quarry Adopt-A-School partner.

Fifteen 4th- and 5th- grade students were selected by their teachers to participate in the program. Dr. Bashir Memon, PELA's Executive Vice President and Senior Hydrogeologist, and Dr. Jim LaMoreaux, PELA's Chairman, spoke to the students. The students learned about the hydrologic cycle, rocks and minerals used in everyday life, and Alabama's dinosaurs and fossils.

The students were also able to perform experiments and examine rocks and minerals found in Alabama.

PELA provided snacks and drinks for the students along with goodie bags containing PELA hats, geologic time scales, and post cards with pictures of the State

of Alabama's dinosaur, the Mosasaur. The Geological Survey of Alabama supplied post cards, posters, and sample rock and mineral kits. Teachers also received materials to use in their classrooms.

PELA would like to thank Ms. Karrie Curry, Rock Quarry's Adopt-A-School Coordinator, for arranging the time and place for the students and PELA to meet, as well as coordinating with teachers.

All in all, the students and PELA's staff had a fantastic experience. Curry related, "Thank you for a wonderful day of learning about geologists! The kids had a great time."

PELA GEOENVIRONMENTAL

Inspired? IAH is always happy to learn of initiatives that engage students and others in our science. Email articles to info@iah.org

CONFERENCE NEWS

Updates from South Africa and Canada

While the deadline for early registration passed on July 31st, there is still time to sign up for the international conference “Groundwater: our source of security in an uncertain future”. The conference takes place at the CSIR conference facility in Pretoria, South Africa on 19th to 21st September. There will be a full programme of invited keynote papers, parallel sessions and posters and a series of IAH meetings, details of which are given elsewhere in this newsletter.

The conference is aimed at groundwater scientists, manager and planners, hydrologists and geotechnical engineers but will also appeal to water professionals, environmental scientists, journalists, economists, public-sector officials and others working at the front line of service delivery, national resource management and governance. There are also ample social opportunities during and after the three-day programme, which is now available at www.gwd.org.za. Further information can be obtained from confplan@iafrica.com. We look forward to seeing you in South Africa.

2011 conference website:

<http://gwd.org.za/gwc2011/home>

Meanwhile, representing the IAH Executive, Antonio Chambel visited Canada from 30th May to 1st June to look at the congress facilities and meet the local organising committee. On the first day, he was taken to Niagara Falls and the conference venue at the Hotel Sheraton on the Falls and on the following

day Antonio met the organising committee in the Department of Geology of the University of Toronto. He reports that preparations are going well and the main concerns at this stage relate to the potential high cost of registration and the possible impact of the depressed economic situation on commercial support for the congress and possibly on the level of attendance.

Antonio also reports that the excellent conference facilities at the hotel are more than adequate for our requirements. The Sheraton is quite expensive, which is not surprising given its spectacular location, but there are more modest hotels within easy walking distance. Tourist facilities in and around the town are naturally excellent and were demonstrated by a representative of Niagara Parks. The picture shows Antonio, Ken Howard and Steve Holysh, co-chair of the organising committee, testing some of the tourist activities available to visitors! No life jackets?...

SECRETARIAT



DATE FIXED FOR IAH ANNUAL GENERAL MEETING, 2011



Notice is given that the 2011 Annual Meeting of the International Association of Hydrogeologists will be held in the CSIR Conference Centre, Pretoria, South Africa on Monday 19th September at 16.45 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

OTHER IAH MEETINGS IN PRETORIA



In addition to the Annual General Meeting, the following dates are now confirmed:

- The IAH Council meeting will take place on Sunday 18th September, probably from 09.30 or 10.00 onwards in the Amethyst Room of the CSIR conference centre.
- The IAH Early Career Hydrogeologists' Network will meet during the lunch break on Tuesday 20th from 12.30 to 13.30 in the Garnet Room.
- The IAH National Chapters will also meet on Tuesday 20th from 12.30 to 13.30 in the Crystal Room. In both cases participants will be able to collect their lunches and take them to the meeting.
- The IAH Commission on Managed Aquifer Recharge will meet on Tuesday 20th in the Garnet Room from 13.30.
- There will be a meeting of the FAO/UNESCO/IAH/WB GEF groundwater governance project on Wednesday 21st from 8.30 to 10.15 in the Crystal Room.

Fitting several IAH meetings into the very full three-day programme of GWD 2011 has required careful planning, and we are grateful to the conference organisers for their help.

SECRETARIAT

2011

14-17 Sept: Zaragoza, SPAIN. Iberian Congress on Groundwater: Management challenges for the 21st Century. Organised by IAH Spanish Chapter, Zaragoza University, Ibercaja, Ebro River Basin, Aragon Water Institute, Spanish Geological Institute, WASA-GN, IAH Portuguese and French chapters, and FCIHS. INFO: <http://www.iah-ge.org>

15-17 Sept: Tomar, PORTUGAL. International Conference on Ecohydrology and Climate Changes – EcoHCC'11.
INFO: <http://www.ecohcc11.ipt.pt>

19-22 Sept: Leipzig, GERMANY. ModelCare 2011, The 8th International Conference on Calibration and Reliability in Groundwater Modelling. Organised by Helmholtz Centre for Environmental Research.
EMAIL: modelcare2011@fu-confirm.de

19-21 Sept: Pretoria, SOUTH AFRICA. Groundwater: our source of security in an uncertain future. GSSA/IAH Conference. Organised by Groundwater Division of GSSA and IAH.
INFO: <http://www.gwd.org.za>

20-25 Sept: Bari, ITALY. GEOMED 2011 - 4th International Conference on Medical Geology. Organised by IMGa (International Medical Geology Association). INFO: <http://www.geomed2011.it/>

21-23 Sept: Sao Paulo, BRAZIL. The Management of the Guarani Aquifer System - An Example of Cooperation.
EMAIL: f.sindico@surrey.ac.uk or cepas@usp.br

25-29 Sept: Porto de Galinhas, BRAZIL. XIVth IWRA World Water Congress. Organised by International Water Resources Association. INFO: <http://www.iwrahome.org>

26-27 Sept: Burlington, USA. NGWA Focus Conference on Fractured Rock and Eastern Groundwater Regional Issues (#5017). Organised by NGWA. INFO: <http://info.ngwa.org/events/5017sep11.cfm>

27-30 Sept: Madurai, INDIA. The Impact of Climate Change on Groundwater Resources with special reference to Hard rock Terrain. IGWC 2011 - 4th International Groundwater Conference.
EMAIL: navaraj2k1@yahoo.co.uk or mthangarajan@hotmail.com

5-7 Oct: Kalavrita, GREECE. 9th International Hydrogeological Congress of Hellas. Organised by Hellenic Committee of Hydrogeology (Hellenic Chapter of IAH) and Association of Geologists & Mining Engineers of Cyprus.
INFO: <http://www.hydrogeocongress.gr>

9-12 Oct: Minneapolis, USA. Archean to Anthropocene – the past is the key to the future. GSA 2011 Annual Meeting. Organised by Geological Society of America. INFO: <http://www.geosociety.org/meetings/2011/>

18-21 Oct: Jeju Island, KOREA. Second Asia Pacific Coastal Aquifer management meeting.
INFO: <http://www.apcamm.org/>

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

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

CONFERENCE LISTINGS

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