

# WELCOME

2010 WAS A BUSY YEAR FOR IAH, AS IN ADDITION TO ITS USUAL ACTIVITIES THE ASSOCIATION UNDERTOOK A NUMBER OF REVIEWS. THIS REPORT SUMMARISES THE YEAR, FOCUSING ON SOME OF THE WAYS IN WHICH WE SUPPORT OUR MEMBERSHIP.

## HIGHLIGHTS 2010

The 38th Congress of IAH was, by general acclaim, a great success in all respects. Its 520 participants, 190 from within Poland and the rest from 70 countries, gathered in the well equipped Auditorium Maximum of the Jagiellonian University in the Royal Capital City of Krakow. Within the overall congress theme of "Groundwater Quality Sustainability", the rich and varied technical programme offered 190 oral presentations and 115 posters.

Innovations for 2010 included a very well-received pre-congress presentation from NGWA on "Drilling Technologies for Groundwater Extraction", and meetings for young scientists and national chapters. These latter two will become regular features of IAH congresses. At a round table discussion on the final day a draft Krakow Declaration on groundwater quality was presented as a lasting product from the Congress.

The excellent social programme included an evening concert in the magnificent St Mary's Church in the main square and the congress dinner which combined a classical concert and buffet supper in the elegant Slowacki Theatre. The mid-congress visit was to the fascinating salt mine at Wieliczka and post-congress trip to the Tatra Mountains.

Congress participants thoroughly enjoyed their time in Krakow, which is still considered by many Poles to be the cultural capital of the nation. Moreover, the organisers' claim that the historical centre of the city has the greatest density of restaurants and bars of any European city was thoroughly tested during the week. From the reactions of delegates during the congress and afterwards, it can indeed be concluded that the IAH 2010 Congress in Krakow was very successful. Our hosts on the organising committee, the Polish National Chapter of IAH and the AGH University of Science and Technology are thanked for their hard work before and during the congress and can be congratulated on an excellent all round performance.

On taking office in 2008, the new Council set itself the task of undertaking a strategic look at all of the operations of IAH. One component of this has been the review of the commissions, as reported opposite. The second is a "Forward Look" at the way the Association should develop up to 2020. This was initiated by a questionnaire to the membership in early 2010 and a Forward Look meeting was organised at Reading University in July. Led and facilitated by Secretary General Shammy Puri, 24 IAH members met for two and a half days of discussions around five key themes. The rich and lively discussions generated a series of suggestions and recommendations for each theme. These included developments to our educational activities and member services, our website and conferences, and growth of membership and national chapters. The outcome is an overall strategy for IAH up to 2020 which has its own dedicated reports.

## THE WORK OF THE ASSOCIATION

### IAH COMMISSIONS

The science base of the Association is its Commissions, which should not be seen as static or rigid but instead responding to new issues and challenges. Following a detailed questionnaire survey of existing commissions in 2009, a report from Ken Howard with proposals for reform of the structure and operation of the commissions was discussed by the IAH Executive in early 2010 and reviewed by Council at its meeting in September 2010. Its recommendations were accepted in full. In future there will be provision for four categories of groups – commissions, networks, working groups and panels – each with slightly different objectives, activities, outputs, obligations and ways of working. The details of these are set out in Ken's report which is available on the IAH website at <http://www.iah.org/downloads/commsrev.pdf>.

Applications for commissions and networks were then invited. This enables existing commissions to re-establish themselves should they wish to do so, and will also encourage proposals for new groups and subject areas. This is an opportunity for more IAH members, including those who have felt our commissions to be a slightly closed world, to become involved.

In the meantime, some of the commissions had an active year in 2010. The MAR Commission held a side event with UNESCO support at Stockholm Water Week, a plenary session at the Krakow congress and, also in partnership with UNESCO, ran a workshop at the ISMAR 7 conference in Abu Dhabi (pictured below). The Commission on Climate Change also met in Krakow and is a major participant in the two climate-related books mentioned under publications.

### NATIONAL CHAPTERS

The number of National Chapters now stands at 46, although not all could be said to be fully functional. Active National Chapters are a means of bringing scientific and professional benefits to members, and efforts to promote new chapters continue in several countries where groundwater is central to national development, there are significant numbers of groundwater professionals and where IAH ought to be stronger than it is at present.

National Chapters have been active in support of regional and national meetings, and reports of these appear in the IAH Newsletter.

The Moroccan National Chapter convened a successful regional conference in Agadir in March 2010. Nearly 300 participants from 50 countries attended, a new national committee was elected and 15 new members were recruited. The US National Chapter co-sponsored a major conference on Groundwater in Agriculture hosted by the University of California in June 2010 which brought together leading scientists, policy analysts, decision makers and agricultural and environmental stakeholders.

National Chapters are, of course, not only involved in meetings. The National Chapter of the Netherlands, for example, produced a series of cartoons to communicate groundwater issues to non-specialist audiences. These can be downloaded from the chapter's website <http://www.hydrology.nl/iahpublications/> as can their recent book on arsenic in groundwater.

More reports are always welcome, and annual reports from National Chapters are posted on the IAH website. The Executive and Secretariat continue to support existing National Chapters and to promote new ones. To this end, and following discussions at the Forward Look meeting in Reading, a meeting of National Chapter representatives was convened at the Krakow congress, and is likely to become a regular part of our congress programme.

### THE TIME CAPSULE PROJECT

The Time Capsule Project continues its efforts to record the work and life of some of the pioneers of hydrogeology and of IAH. The interview with Shlomo Neuman is an important testimonial of Jewish life in Europe during the 2nd World War as well as demonstrating the major scientific fields he has been involved in during his career. Later in the year, an interview with Ghislain de Marsily was recorded in two parts with the intention that editing is completed in 2011. Interviews with John Cherry and Gedeon Dagan are planned for 2011, and possibly with Jean Margat. At present the Time Capsule Project relies on funding from the main IAH budget; contributions are invited to help support future efforts of this very worthwhile project.

## MEMBER SERVICES

Like all professional associations, IAH seeks to provide the maximum benefits to its members. These obviously include the well-established

scientific journal, the book series and regular programme of international congresses highlighted elsewhere in this report. Some other examples are featured below.

### SPONSORED MEMBERS SCHEME

IAH provides free membership to groundwater professionals in developing countries who are not able to pay their own membership fee. The scheme has grown gradually so that in 2010 the Association had over 200 members supported by individual IAH members, national chapters and our own dedicated Sponsorship Fund.



"IAH sponsorship will help to build the technical capacity needed in developing countries like Ghana to tackle the water problems of the 21st century." Joseph Asante, Ghana (sponsored by the US National Chapter).



### TRAINING AND DEVELOPMENT

For many years there has been a tradition of organising technical field visits associated with IAH congresses or commission meetings. Many National Chapters also organise field visits as part of their own programmes. The picture above shows a group from the Irish National Chapter looking at a major karst spring discharging to the sea at Kinvara, Co Galway.

IAH also provides financial support to members to attend its congresses. In recent years such support has come both from our partners UNESCO and from our own central funds. For the Krakow congress in 2010 funding was granted to 17 participants from developing countries and to 7 Polish postgraduate students.

### ENCOURAGING YOUNG GROUNDWATER PROFESSIONALS

One important new initiative is to establish better support and encouragement within IAH for young/early career groundwater professionals. More than fifty young participants attended an initial meeting during the Krakow congress, which resulted in an interim committee and a proposal for a formal IAH network. Recommendations from the group include better representation of younger professionals in IAH commissions, conferences and chapters and consideration of mentoring possibilities to help develop the skills and experience of younger members.

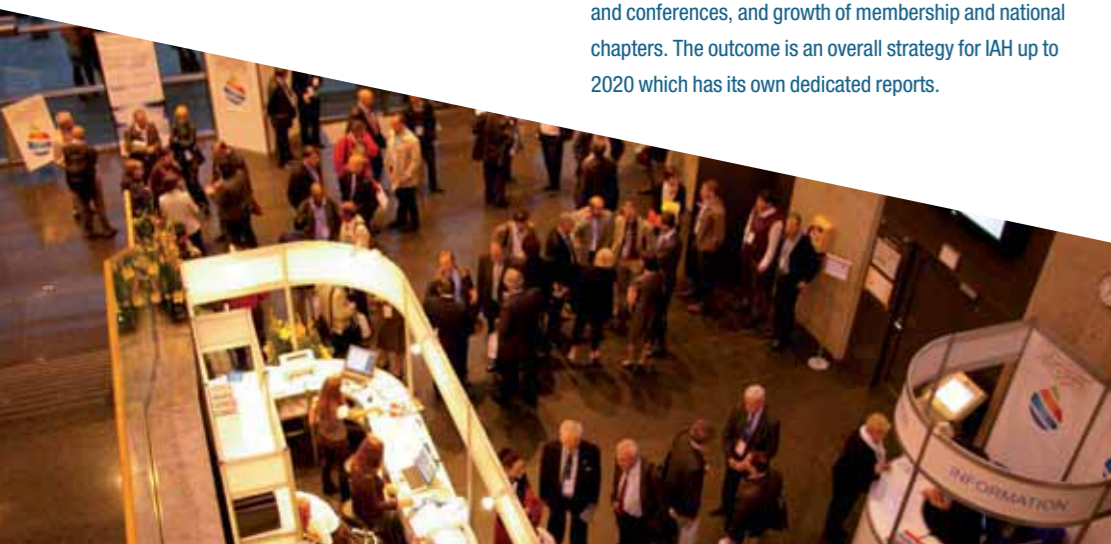


IAH ALWAYS LOOKS TO IDENTIFY POTENTIAL NEW SERVICES TO MEMBERS AND NEW WAYS OF PROVIDING THEM. PLEASE CONTACT [INFO@IAH.ORG](mailto:info@iah.org) WITH YOUR SUGGESTIONS



### PROFESSIONAL AND SOCIAL NETWORKING

One proposal during the Forward Look meeting in Reading was for the establishment of an IAH group on the professional networking site LinkedIn. This was taken up and the group was initiated by Sophie Vermooten of the Netherlands immediately after the meeting, had more than 250 members by the end of the year, and is growing quickly. The IAH LinkedIn group has hosted technical discussions on pumping tests, groundwater modelling and tidal influences on groundwater among others, provided notice of publications and also begun to carry information about employment opportunities. Sophie is thanked for her efforts in initiating and moderating the group on behalf of IAH.



## PUBLICATIONS

The Hydrogeology Journal (HJ) continues to grow in stature. The SCI measure of impact has risen strongly in recent years, dropped a little in 2007 and 2008 to around 1.1 and rose again in 2009 to 1.42. The Journal continues with eight issues per year, with a total of 1985 pages for 2010. The balance between impact factor and geographical spread of authors and content should be maintained, but it is desirable to sustain the SCI above 1.0 and in the same range as comparable journals. The time from submission to online publication has improved from 11 to 9 months and to printing from 16 to about 12 months.

The HJ editorial team are dispersed around the world and do not get together very often, so a meeting was held in late 2010. The picture below shows the group shivering in the December snow in Paris. Overall, the meeting provided an opportunity to share experiences and feed these back into significant operational improvements to be implemented or considered. The Association is indeed fortunate to have Cliff Voss and his team and the current high quality of the Journal reflects their hard work and dedication.

IAH News and Information continued to be collated and edited by the Secretariat and the usual three issues were produced during the year. 2010 saw the complete re-design of the newsletter layout, introducing a larger format and full colour printing. The IAH electronic newsletter was produced three times during the year, with a distribution of about 6000.

Progress with book publication is less encouraging, and only one new book was published by Taylor & Francis on behalf of IAH during 2010. This was Groundwater Response to Changing Climate edited by Makoto Taniguchi and Ian Holman in the Selected Papers series. Preparation of SP volumes from the Lisbon and Krakow congresses is underway and work continues rather slowly on the History of Hydrogeology and a new book in the ICH Series on the impacts of climate change on groundwater resources describing case studies from the UNESCO-IHP GRAPHIC project is also in preparation. Book sales remain strong.



## EXECUTIVE AND COUNCIL

The governing body of IAH is its Council, which is responsible for determining the Association's general policy. The present Council was elected in October 2008 and will serve until the AGM of the Association to be held in Canada in 2012. The IAH Executive Committee, consisting of the President, Secretary General, VP Finance and Membership and VP Scientific Programme met at UNESCO in Paris from 11th to 13th February 2010. Council met in Krakow, Poland on 12th September immediately before the IAH Congress.

## MEMBERS OF COUNCIL

<b>Mohammed Aboufirass (Morocco)</b>	VP, Middle East and North Africa
<b>Ian Acworth (Australia)</b>	VP, Australasia and the Pacific
<b>Segun Adelana (South Africa)</b>	VP, Sub Saharan Africa
<b>Luiz Amore (Brazil)</b>	VP, Latin America and the Caribbean
<b>Antonio Chambel (Portugal)</b>	VP, Finance and Membership
<b>Stephen Foster (UK)</b>	Past President*
<b>Ken Howard (Canada)</b>	VP, Scientific Programme Coordination*
<b>Leonard Konikow (United States)</b>	VP, North America
<b>Didier Pennequin (France)</b>	VP, Western Europe
<b>Shammy Puri (United Kingdom)</b>	Secretary General
<b>Shivendra Rath Nai (India)</b>	VP, Asia
<b>Willi Struckmeier (Germany)</b>	President*
<b>Igor Zektser (Russia)</b>	VP, Eastern Europe and Central Asia

## FOR FURTHER INFORMATION

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## AWARDS

The IAH annual awards were announced at the General Assembly meeting in Krakow. The Presidents' Award is made in recognition of outstanding international contributions to groundwater science and to furthering the aims of the Association in promoting the understanding and management of groundwater resources. President Willi Struckmeier announced that the 2010 award was to Professor Ghislain de Marsily, who met both criteria and has moreover made outstanding achievements in communicating hydrogeological science. Dr Marsily graduated in the 1960s as a mining engineer and geologist at the School of Mines in Paris. After several years as a mining engineer, he joined the Paris 6 University in 1973 and completed his doctorate thesis in 1978. He became a professor in 1987 and was director of the applied geology laboratories until 2004.

Within his scientific career, Dr Marsily covered a wide range of research fields. His books on quantitative hydrogeology, fluid transport and geostatistics qualify Ghislain as a first class scientist and engineer, and a ground-breaking groundwater modeller. He has always been willing to make his expertise applicable for practical solutions and his advice is greatly appreciated by expert groups for the French ministries of the environment, research and agriculture. He has become a highly appreciated partner for the media, where he has given a number of well regarded interviews on the future of water worldwide. Unfortunately Professor Marsily could not attend the congress, and the award was presented to him at the ISARM meeting in Paris in December 2010.

The General Assembly approved the award of Honorary Membership to Professor Stephen Foster. Stephen really needs no introduction to IAH members, having been President of the Association from 2004 to 2008 and Vice President for Western Europe from 2000 to 2004. He spent most of his working career in and then leading the Groundwater Programme of the British Geological Survey and as Divisional Director for Groundwater and Geotechnical Surveys from 1990 to 1999. Since leaving the Survey, Stephen has been the leader of the World Bank's Groundwater Management Team. The presentation was made by Willi Struckmeier, as shown in the photo below.



## MANAGING THE ASSOCIATION

### MEMBERSHIP

At the end of 2010 the Association had 3785 members, a decrease of about 100 on 2009. It is gratifying that membership has held up reasonably well during these tough economic times, although this decrease may result from a time lag in this respect. The 4000 total still remains elusive, and further growth in higher and middle income countries is essential for the long-term professional and financial viability of IAH. Analysis of membership trends by region emphasises the need to promote membership in Asia, the Middle East and North Africa, Eastern Europe and Latin America.

Taking account of IAH's continuing sound financial performance, Council decided in 2009 not to raise membership fees for 2010. At its meeting in Krakow in September 2010, Council approved an increase in the headline fee rate for 2011 from €72 to €75, with corresponding rises for the other categories of membership.

Individual IAH members and National Chapters continue to make contributions to support our Sponsored Members Scheme. This enables membership to be offered to groundwater professionals from developing countries who are unable to pay their own membership fee. At the end of 2010, we have a total of 209 sponsored members. Knowing that sponsored membership is greatly appreciated by the recipients, in 2009 IAH established a separate Sponsored Membership Fund.

Corporate Membership has remained steady, and at the end of 2010 we had 44 Corporate Members. We also now have our first corporate sponsor, DHI-WASY.

### STAFF

Executive Manager John Chilton and Executive Assistant Kellie Nicholson have now seen the routine administration of the Association through three annual cycles and are able to devote more time to initiatives such as the Forward Look, education and development, website and publicity and recruitment and national chapters. In the meantime, Sharon Warden has continued to provide her assured touch on all membership issues and Technical Editorial Adviser Sue Duncan maintains the

high standard of her work and has become a key member of the editorial team.

### FINANCE

The formal financial statement for 2010 is downloadable from the website and the customary summary is included here. Income from membership fees was up by some £6000 over 2009. Publishing income was up slightly on 2009. Investment income fell to practically nothing due to the universal decline in interest rates. Overall income for 2010 was boosted by the unexpected £14,500 IAH share of the operating surplus from the conference held jointly with IAHS in Hyderabad in September 2009. This will be set to good use in the region.

On the expenditure side, printing and publishing costs associated with the Hydrogeology Journal were £15,000 higher than in 2009. Most of the routine and recurrent administrative expenditure was close to budget and to previous years. Additional design and graphic work on the summary annual report (fully re-designed in 2009) and for our News and Information has increased printing and publishing costs slightly, but the newsletter is printed by Springer in full colour at no extra cost. Travel costs were slightly higher than in 2009. The Forward Look meeting to review the Association's future activities and a smaller meeting to review the activities of the Burdon Network were organised together at Reading University in July 2010, at a total cost of some £21,000. A meeting of the Journal editorial team was held in Paris in December 2010.

In summary, the result has been an overall operating deficit for 2010 of £11,500 and closing balance of funds of £262,000. That this is smaller than the planned budget deficit of some £35,000 can be ascribed to the extra income from Hyderabad, combined with slightly increased publishing royalties, reduced expenditure on publicity and some other smaller items, and the cost of the Paris editorial meeting being spread over two years. In addition, Expenditure from the Burdon, Education and Development and Sponsorship Funds has not been as large as anticipated. Overall, therefore, IAH remains in a strong financial position at the end of 2010.

## INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS

Statement of Financial Activities for the year ending 31 December 2010

	£	£	EUR(€)
<b>Incoming Resources</b>			
Membership fees		195,697	227,361
Contract and subvention income		36,059	41,893
Investment income		96	112
Donations		11,725	13,622
Royalties		22,428	26,057
Miscellaneous		16,117	18,725
<b>Total resources received</b>		<b>282,122</b>	<b>327,769</b>
<b>Resources expended</b>			
Member services	Salaries	16,805	
	Printing and publications	121,192	
	Other	25,589	163,586
			190,054
Donations and grants payable			22,724
Support costs	Salaries	27,239	
	Travel and subsistence	32,618	
	Printing, stationery and database administration	3,711	
	Other	1,914	65,482
			76,077
Management and administration of the charity	Salaries	15,619	
	Accountancy fee	2,287	
	Other	61	39,668
			46,086
Finance costs (bank charges) and depreciation			5,463
			6,347
<b>Total resources expended</b>		<b>293,758</b>	<b>341,288</b>
<b>Net Income/Expenditure</b>		<b>(11,636)</b>	<b>(13,519)</b>
Net foreign exchange gains/(losses)		(11,450)	(13,303)
<b>Net incoming resources</b>		<b>(23,086)</b>	<b>(26,821)</b>
<b>Balance brought forward at 1 January 2009</b>		<b>284,823</b>	<b>330,907</b>
<b>Balance carried forward at 31 December 2009</b>		<b>261,737</b>	<b>304,086</b>

Balance sheet as at 31 December 2010

	2010 £	2009 £	2010 EUR(€)	2009 EUR(€)
<b>Fixed Assets</b>	997	1,670	1,158	1,940
<b>Current Assets</b>				
	Cash and debtors due	272,854	290,603	317,002
<b>Creditors</b>				
	Amounts due within one year	12,114	7,450	14,074
<b>Net Assets</b>	<b>261,737</b>	<b>284,823</b>	<b>304,086</b>	<b>330,907</b>
Represented by:				
	Unrestricted Funds	202,226	224,242	234,946
	Burdon Fund	59,511	60,581	69,140
<b>Funds</b>	<b>261,737</b>	<b>284,823</b>	<b>304,086</b>	<b>330,907</b>

**Statement by the Association's reporting accountant:** These summarised accounts are extracted from the full financial statement of the Association which were subject to an unqualified report by Locke Williams Associates LLP, Blackthorn House, St Pauls Square, Birmingham, B3 1RL. The independent examiners have confirmed that the summarised accounts are consistent with the full accounts for the year ended 31 December 2009. The annual report and accounts were adopted by the IAH Council on 4 July 2011 and will be submitted to the Charity Commission and the Registrar of Companies.

These summarised accounts may not contain sufficient information to gain a complete understanding of the financial affairs of the Association. For further information, the full accounts, the reporting accountants' report on those accounts and the trustees' annual report should be consulted; copies of these can be obtained from the IAH International Office or downloaded from [www.iah.org](http://www.iah.org).

Throughout this report the conversion from sterling (£) to Euro (€) is at the rate of €1.16 = £1.

