



NEWS AND INFORMATION

International Association of Hydrogeologists

The international groundwater organisation

Since 1956 a world-wide forum on the management of groundwater for the benefit of mankind and the environment

Launch of *Groundwater eNews*

In parallel with this issue of IAH News and Information we are launching an IAH email newsletter designed to provide a better and more immediate briefing service for IAH members. The only practical and economic way for IAH to distribute a hard copy newsletter worldwide is to mail it together with Hydrogeology Journal. The lead times between the final copy date and receipt of the newsletter throughout the world are between 6 and 8 weeks, which limits its value for items of immediate importance.

Our solution has been to develop *Groundwater eNews* as a complement to hard copy newsletter and the IAH web site, which we plan to manage together to improve your access to information. If your e-mail address is held on the IAH membership database then you will have already have received the first issue of *eNews* at the end of July.

If you did not receive it then either we do not have your e-mail address or the address we have is wrong. To receive the next issue of *Groundwater eNews* all you need to do is send your e-mail address to Christine Watson at: cwatson@iah.org

Like me you are probably receiving an increasing

number of e-mail newsletters so we will be keeping our *eNews* brief and referring you to more information on the IAH web site or other web sites. If *Groundwater eNews* is not useful to you then directions to unsubscribe appear as a footer on every issue. The *eNews* database is separate from the IAH membership database, so deleting from *eNews* will in no way change your IAH membership status.

To date we only hold e-mail addresses for about a third of our members although we expect this to increase rapidly. *Groundwater eNews* is designed to complement the hard copy newsletter which will be retained in its present form and will also be available on the web site in .pdf format. All the significant items reported in *Groundwater eNews* will be in the hard copy newsletter.

We regard *Groundwater eNews* as a resource for the whole groundwater community so it will be possible for non-members also to subscribe to *Groundwater eNews* from a link on the IAH web site. This will provide a wider audience with information about IAH events and help promote the value of IAH membership.

How to contact IAH

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To join IAH please use the on-line service on our web site, download our membership form or contact the IAH office

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We do not intend to commit ourselves to producing *Groundwater eNews* at a fixed frequency but to respond to need as newsworthy information becomes available. However, to some extent, the frequency is in your hands. The more information about people, events, meetings, and issues that is sent to us the better the service can be.

An increased frequency will make other services such as advertising jobs and short courses feasible. We reserve the editorial right to select what goes in *Groundwater eNews* in the interests of keeping its size to manageable proportions, but we welcome suggestions and contributions, which should be sent to Christine Watson at the E-mail address on page 1.

One of the goals of IAH is to speak for groundwater at the international level when environmental and water policy issues are being discussed. Part of this role is to ensure that IAH representatives attend meetings

like the World Water Forum, which only a few can do. However our impact will be much greater if IAH members are also influencing their national representatives who are attending such meetings.

The next World Water Forum will be held in Japan in 2003 and already the preparations for that important event have begun with a "Kick-Off" meeting held in Kyoto in June 2001, as reported on page 4. We shall be using *Groundwater eNews* to keep IAH members informed about what is happening and about the messages that IAH is trying to get across so that you can add your weight to the argument through your own channels.

I hope that you will find *Groundwater eNews* a useful service and I welcome your contributions and feedback.

Andrew Skinner - Secretary-General, IAH

Conference Update

New and updated conference announcements. For a fuller listing see page 12 or www.iah.org/confs

Groundwater Issues in Canada is the title of a hydrogeology specialty conference organised by the Canadian Chapter of IAH as part of the Canadian Geotechnical Society Conference in Calgary from 16-19 September 2001. Speakers include Dr Alfonso Rivera, Chief Hydrogeologist, Geological Survey of Canada and Dr Mary Hill, 2001 Darcy Distinguished Lecturer. Further details from www.ucalgary.ca/iah-cnc/

The Groundwater Surveys and Development Agency of the State of Maharashtra, India is organising an International Seminar on an **Integrated Approach for Strengthening and Protecting Drinking Water Sources** in Pune, India on 27-28 September 2001. The seminar is supported by UNICEF. Further details can be obtained from F J Jadhav e-mail dirgsda@vsnl.com

The final circular with the full programme of distinguished international speakers is now available for the conference to be held in Birmingham, UK on 4-5 October 2001 on **Protecting Groundwater: Applying policies and decision making tools to land-use planning**. The purpose of the meeting is to debate the UK experience in groundwater protection in comparison with other countries and to explore strategies for effective integration of groundwater

protection into land use planning decisions. The meeting is organised by the National Groundwater and Contaminated Land Centre on behalf of the UK Environment Agencies. Further information and registration details are available at www.environment-agency.gov.uk/pgw or e-mail ngwclc@environment-agency.gov.uk

An **International Workshop on Investigation, Management and Remediation of Contaminated Aquifers** will be held in Alicante, Spain from 17-19 October 2001. The meeting is designed to address technical, institutional and legal issues and to promote international sharing of expertise and experience. Information and reports from CLARINET (Contaminated Land Rehabilitation Network for Environmental Technologies) are included in the programme. Further information is available from Juan Grima igmevalancia@ono.com

IAH is collaborating with the Groundwater Resources Association of California (GRAC) in a conference to be held in Sacramento, California on 1-2 November 2001. This meeting is the part of a biennial series, which has now run for 46 years, with the objective of highlighting the importance of groundwater in water policy. The 2001 meeting has the theme **Managing California's Groundwater – The Challenges and**

Quality and Quantity. Concurrent technical and policy sessions will be held during the two-day conference that will address the following areas: groundwater quality; groundwater quantity; groundwater management: new tools; watershed effects on groundwater; emerging non-conventional contaminants; development of groundwater in impaired water areas; GIS and hydrologic applications; and remediation technologies. More information is available from GRAC www.grac.org or University of California Water Resource Center www.waterresources.ucr.edu

As a contribution to the International Hydrological Programme Phase V, Project 3 Groundwater Resources at Risk, Anna University, Chennai, India, in conjunction with UNESCO, New Delhi is organizing an **International Workshop on Modelling in Hydrogeology** from 3-7 December 2001. Information and registration details are available from Dr L Elango, E-mail: elango@annauniv.edu

The Hydrogeology Division of the Geological Society of America has selected Dr Graham E Fogg to be the **2002 Birdsall-Dreiss Distinguished Lecturer**. Graham is a Professor of Hydrogeology in the Department of Land, Air and Water Resources, at the University of California, Davis. He will be offering three Birdsall-Dreiss lectures:

- Plume Behaviour in Heterogeneous Geologic Systems: Natural Attenuation, Remediation, and the Role of Diffusion
- Groundwater Vulnerability and the Meaning of Groundwater Age Dates
- A Geologic Approach to Simulation of Subsurface Hydrology

Graham can be contacted at gefogg@ucdavis.edu for scheduling a visit. Also check his web page at <http://lawr.ucdavis.edu/faculty/fogg/> for further information.

Sustainable Development and Management of Groundwater Resources in Semi-Arid Regions with Special Reference to Hard Rocks is the title of a newly announced groundwater conference to be held in Dindigul, Tamilnadu, India from February 20-22 2002. Details are available from NGRI Hyderabad postmast@csngri.ren.nic.in

The Karst Research Institute, Postojna, Slovenia is organising an international conference **Evolution of karst: from prekarst to cessation** from September 17-21 2002. Details are available from www.zrc-sazu.si/evokarst

Call for papers is now being made for **ISAR4, the 4th International Symposium on Artificial Recharge** to be held in Adelaide, South Australia from 22 - 26 September 2002. The theme of the Symposium is **Management of Aquifer Recharge for Sustainability**. Update from: www.groundwater.com.au/conf/isar4.htm


Water for Human Survival is a regional symposium organised by the International Water Resources Association to be held in New Delhi, India from 26-29 November 2002. Details from www.cbip.org

The **International Geological Congress** in 2004 will be held in Florence, Italy. Work is beginning on planning the sessions focussing on groundwater. The IAH contact with the organising committee is Giovanni Barocco (barocu@crs4.it), President of the Italian National Chapter, who invites contact and suggestion from IAH members.

IAH XXXI Congress 9-15 September 2001
Munich, Germany

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www.agh.iaag.geo.uni-muenchen.de



MUNICH 2001
XXXI. IAH Congress

Preparing for the 2003 World Water Forum

2003 has been declared the International Year of Freshwater. A key activity in that year will be the 3rd World Water Forum in Kyoto, Japan where the first World Water Development Report (WWDR) prepared by the UN agencies will be published. IAH is actively working to ensure that groundwater issues are fully addressed in the run up to these important events.

IAH has agreed to support UNESCO on groundwater issues in the WWDR at a meeting in Paris in May. In June the organisers of the 2003 World Water Forum organised a "Kick-off" meeting to help shape the programme for the Forum. Our Vice-President for Asia, Dr Shrikant Limaye, represented IAH at this meeting; also present were Prof Ramón Llamas, IAH Past President and Dr Yasuo Sakura, President of the Japanese National Chapter of IAH.

Dr Limaye reports:

The Kick-Off Meeting for the 3rd WWF, to herald the formal beginning of the activities of the forum, was held in Kyoto on 3 - 5 June 2001. About 450 participants from all over the world attended the meeting. The participants represented government departments, national & international organizations and the NGOs. I had the opportunity to participate on behalf of the IAH. Financial support for my attendance was kindly provided by the Secretariat of the 3rd WWF.

The agenda included brain-storming sessions for orienting the 3rd WWF towards specific themes and actions to make it a success. Attention was also focused on the seven constraints in water resources management, i.e. Water scarcity, Lack of accessibility, Deterioration of water quality, Lack of awareness in politicians and policy makers about water related problems, Decline in the investment in water sector, Peace and security related to trans-boundary waters, and Fragmentation of authority in water management.

At the Kick-off meeting, in consultation with Prof Llamas and Prof Sakura, I indicated that at the 3rd WWF, the IAH will be interested in organizing sessions related to some of the following topics: Watershed management and poverty alleviation, groundwater and food security, groundwater in a Megacity environment, groundwater development in

small islands and coastal zones, and groundwater and ecosystems.

Dr Limaye's full report is available on the news pages of the IAH web site. We will use the web site and *Groundwater eNews* to keep IAH members briefed.

Follow up from Cape Town

Our Cape Town Congress at the end of 2000 has certainly helped to raise the profile of groundwater. Internationally the Cape Town Statement has been distributed widely and generated significant interest. You can find it on the IAH web site with translations into Spanish and, shortly, French. Within South Africa the congress has given an impetus to interest in groundwater at the political level.

National Chapter News

A number of groundwater organisations in South Africa, including IAH, have been instrumental in setting up a Trust Fund in memory of the late Tony Reynders. The fund has been established to create opportunities for the technological advancement of the groundwater industry for the benefit of all South Africans focussing primarily on training and education. (www.wrc.org.za)

The **Norwegian National Chapter** has made some changes to its committee. Kim Rudolph Lund, who was instrumental in setting up the Chapter, is now President and Johan Knudsen (jbk@norconsult.no) has taken over the role of Secretary/Treasurer.

Other National Chapter changes are that Sajid Rashid (enred@brain.net.pk) is now Secretary of the **Pakistan National Chapter** and Jan Heederik (j.heederik@nitg.tno.nl) is the new secretary of the **Netherlands National Chapter**.

Commission News

Most IAH Commissions and Working groups will be holding meetings during the Munich Congress. Exceptions are the **Mineral and Thermal Water Commission** who are meeting in St Petersburg, Russia from 24-30 September and the **Transboundary Aquifer Commission** who meet at Koblenz, Germany from 25-27 September 2001.

IAH in Latin America and the Carribean

The promotion of better understanding and practice in groundwater management is a challenge in Latin America, as it is in many other economically growing regions. This feature highlights some of the current activities of groundwater associations and professionals in Latin America.

Latin America has its own groundwater association, ALHSUD (Asociación Latinoamericana de Hidrología Subterránea para el Desarrollo). For many years IAH has enjoyed cordial relations with ALHSUD. Former presidents of both organisations, John Moore (IAH) and Aldo Rebouças (ALHSUD), signed a cooperation agreement in 1995.

This cooperation has been realised in a number of ways, but notably by the participation of IAH in the biannual congresses of ALHSUD and by the publication by IAH of an annual journal in Spanish and Portuguese. This publication *Hidrología Subterránea* is a joint venture of IAH, UNESCO and the Spanish Geological Survey (IGME - Instituto Geológico y Minero de España) and has been published in 1998, 1999 and 2000 and a fourth issue is planned for later this year and will again include papers about, or of relevance to, hydrogeologists working in Spanish and Portuguese speaking countries.



IAH/UNESCO/IGME Journals published 1998, 1999 and 2000

ALHSUD is a growing organisation. It has just achieved legal status within Uruguay where the office of the Secretary General is situated.

Next year, for the first time, IAH and ALHSUD will formally link their congresses, and jointly celebrate

the 32nd Congress of IAH and the 6th Congress of ALHSUD in Mar del Plata, Argentina from 21 to 25 October 2002. This congress will be a significant step in relations between IAH and ALHSUD when the governing Councils of each organisation are expected to meet together and develop further joint activities.

IAH has National Chapters in México, Argentina and Chile. In some cases the IAH Chapter is closely linked with a national groundwater association such as in Mexico where IAH collaborates with the Asociación Geohidrología Mexicana (AGM). Groundwater Associations in various Latin American Countries are very diverse, ranging from ABAS (www.abas.org), a large and long established association in Brazil with a well established base in the groundwater exploration industry, to young associations such as the newly formed Asociación de Hidrogeólogos del Perú (jtovar@tre.com.pe).

Recent events include the election of a new committee for the Argentine National Chapter, where Eduardo Usunoff is now the President, and discussion regarding the formation of a national chapter in Columbia. For the IAH Chilean Chapter, Dr. Gerardo Díaz del Río, has created the email list "HIDROGEOLOGOS" to link Iberian speaker hydrogeologists and to exchange their experiences (ingedos@ingedos.cl).

The IAH Vice President for Latin America and the Caribbean is Emilia Bocanegra. During 2001 she has represented IAH at a number of meetings in South America including:

- Seminario Internacional "Un enfoque integrado para la gestión sustentable del agua. Experiencias de cooperación". Buenos Aires, Argentina. 28-30 March 2001.
- XXI International Congress of History of Science. Symposia Cambios tecnológicos y culturales en torno al uso y manejo del agua. México City. 8-14 July 2001.
- IV Interamerican Dialogue on Water Management, Foz do Iguazu, Brasil. 2-6 September 2001.

Emilia is also President of the Organising Committee of the 2002 Mar del Plata congress and she gives her personal invitation to the congress on page 8.



Council of ALHSUD

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Secretary: Oscar Escolero Fuentes

Guarani Aquifer Study

The governments of Argentina, Brazil, Paraguay and Uruguay, the World Bank and the Organisation of American States have prepared a proposal for GEF (Global Environmental Facilities) funding of the Environmental Protection of the Guarani Aquifer System. The Guarani Aquifer has only recently been recognised as one interconnected system, prior to which the aquifer was also known by the names of Botucatu in Brazil, Tacuarembó in Uruguay and Argentina, and Misiones in Paraguay. The aquifer has a total surface area of approximately 1.2 million square kilometres (839,800 km² in Brazil, 225,500 km² in Argentina, 71,700 km² in Paraguay and 58,500 km² in Uruguay). Its extension in Brazil alone

is equal to the areas of England, France and Spain combined.

The main objective of the proposed GEF Guarani Aquifer Project will be to support the four countries in developing a common institutional framework for managing and preserving the Guarani Aquifer for current and future generations. The project plan includes actions to consolidate knowledge of the system, joint development and implementation of a Guarani Aquifer Management Framework, public participation and measures to deal with pollution.

As one of the world's most important transboundary aquifers, the Guarani Aquifer is included in the case studies featured in the programme on the management of internationally shared aquifers (ISARM) of the IAH/UNESCO/FAO. This project will be progressed at a meeting to be held in Santa Fe, Argentina from 29-31 August, convened by UNESCO (Montevideo), which will address the hydrogeological, legal, institutional and socio-economic issues arising in the management of internationally shared aquifers and draw on world wide experience.

Further details of the GEF and ISARM projects can be obtained from www.worldbank.org/guarani and www.iah.org/isarm



Guarani Aquifer

Conference in memory of Germán Galazara

Germán Galazara, Civil Engineer and Professor at the Escuela Colombiana de Ingeniería and Vice President of ALHSUD, died on 27th June 2000. He was a noted hydrogeologist and groundwater modeller. He worked to include hydrochemical and hydraulic data into groundwater models including in the unsaturated zone, making important advances in these fields. His death frustrated a brilliant scientific career.



Germán Galazara

To honour him and to support his family, a conference has been organised in Barcelona from 19 to 21 September 2001 under the title LAS CARAS DEL AGUA SUBTERRANEA to address the facets of hydrogeology to which he had contributed.

Further information on the meeting can be obtained from www-h2ogeo.upc.es



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Dear Colleagues,

We would like to invite you all to take part of our XXXII IAH-VI ALHSUD Congress "Groundwater and Human Development" in Mar del Plata, between October 21 to 25, 2002.

Those will be days of meetings to talk about the environmental value of groundwater and the human development, and to exchange experiences with professionals from around the globe. We are confident that it will be of mutual enrichment to share ideas and the results of our daily work.

Mar del Plata is truly a beautiful city, with its coast, its hilly ranges, and its people. You will certainly enjoy sea trips, folk music and tango shows, as well as the typical treat of the Pampas: the Argentine barbecue.

Exciting places wait for you after the Congress: the Patagonian coast and the southern whales, the magnificent Andes mountains including the Aconcagua, the Iguazú Falls, and the Argentine northwestern provinces.

Our Congress is coming up and the deadline for submission of abstracts is 30th September 2001. Already we have received several submissions.

Please visit our web page, there you will find all the updated information:

www.mdp.edu.ar/exactas/geologia/iah2002/iah2002.html

We do wish we would have you all here, with us, in 2002.

We will be waiting for you,

Emilia Bocanegra

President, Organizing Committee



Emilia Bocanegra

History of Hydrogeology

For some time now IAH has had the ambition to compile the extensive but uncollated information which exists on the history of hydrogeology and the exploitation of groundwater. The initial work was the initiative of Philip Commander of Perth, Australia. This project has suffered a number of frustrations but there is now hope that it can be taken forward, Jacobus de Vries of the Free University of Amsterdam explains the background.

Although water has always played an essential role in the history of civilization, no systematic study has been undertaken yet on the history of hydrology as a science, nor on the interaction of water and society. It is evident that water history not only is interesting from a scientific viewpoint but also can help to shape our vision of the future in relation to the increasing problems that we are facing with our water resources.

History of Water and Civilization

The International Hydrological Program (IHP) of UNESCO has recognized this deficiency and has launched a program History of Water and Civilization with the aim to prepare a World Water History Series. In the framework of this proposal, a small group of historians and two hydrologists (Jim Dooge and myself) has recently taken the initiative to form an International Water History Association (IWHA), which will officially be founded at the IWHA conference in Bergen (Norway) from 10-12 August 2001 with the title *The Role of Water in History and Development*.

Meanwhile, the French National Committees for the IAHS and the IHP have organized an international symposium *Origins and History of Hydrology in Dijon* from 9-11 May 2001. About 80 participants from historical, hydrological and technical sciences gathered around 35 presentations, addressing a variety of topics, including concepts on the hydrological cycle, great hydraulic works of antiquity, the emergence of concepts and tools which has led to scientific hydrology and a number of cases of historical water management works.

The French organizing committee has to be congratulated on this well-organized meeting at the Université de Bourgogne in the city of Henri Darcy. The contributions illustrated the broad scope of the

subject and showed that a wealth of exciting material is waiting to be recovered. It is evident however that much research is carried out on ad hoc basis and that a scientific structure through which the right questions can be formulated is lacking. Close cooperation between hydrologists, historians, anthropologists and many other disciplines within the social and natural sciences is a necessity to arrive at a sound history of water.

Call to IAH members

Clearly the UNESCO program can provide the right framework, but it is equally evident that IAH should play an important role. Several initiatives have been taken within the IAH framework to prepare a comprehensive volume on the history of hydrogeology. However, not much substantial has materialized until now because of a lack of time to coordinate this project. Fortunately Prof. John Mather (UK) has now volunteered to act as a general editor for the proposed IAH volume and to take up the coordination of this work. The idea now is to participate in the UNESCO initiative with a separate volume. It is expected that the final structure and organization of the UNESCO series will be framed during the Bergen conference.

A meeting will be held during the IAH Congress in Munich to take forward the IAH project. We need to design a structure for the text and identify members of IAH who would be willing to contribute, building on the structure already developed, but considering other options. All IAH members who have an interest or relevant information, which they would be willing to contribute to a publication on the History of Hydrogeology, are invited to attend. If you are unable to be present and/or would like to let John know of your interest before the meeting, please e-mail him at the address below.

Further information on the International Water History Association and the Bergen conference please see the IWHA web site www.iwha.net

Jacobus de Vries, Amsterdam
vrij@geo.vu.nl

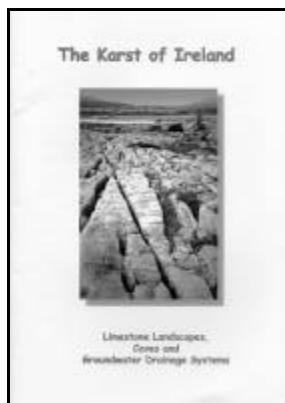
John Mather, London
mather@jggeology.demon.co.uk

Recent Publications

IAH national chapters have contributed to three recent national publications.

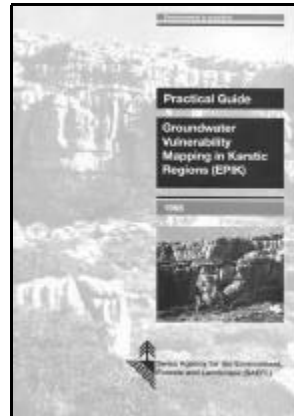
The Karst of Ireland

The Irish Group of IAH, in collaboration with the Geological Survey of Ireland and other specialist societies, has produced an accessible and informative account of the karst of the whole of Ireland, including an overview of the various karst regions of the island dealing with landscape, drainage, environmental, engineering and economic aspects. For details of availability please contact the Geological Survey of Ireland Fax: +353 1 6681782; Web: www.gsi.ie



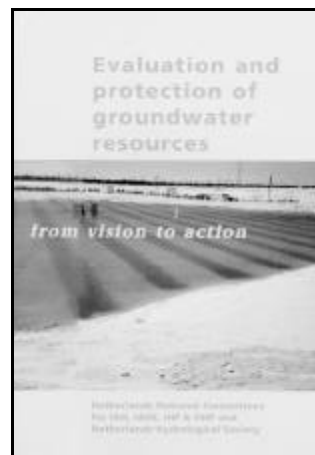
Groundwater Vulnerability Mapping in Karstic Regions - A Practical Guide

This is an English translation describing a methodology for groundwater protection in karst regions which was produced by the Swiss national authorities in 1998. The development work on the methodology was undertaken by the Centre for Hydrogeology at the University of Neuchâtel under the guidance of an expert group, including members nominated by the Swiss Society for Hydrogeology, the IAH National Chapter in Switzerland. The publication is available in English, French and German from the Documentation Office of the Swiss Agency for Environment, Forests and Landscape, Fax: +41 31 324 0216; Web: www.admin.ch/buwal/publikat/d/



Evaluation and protection of groundwater resources - from vision to action

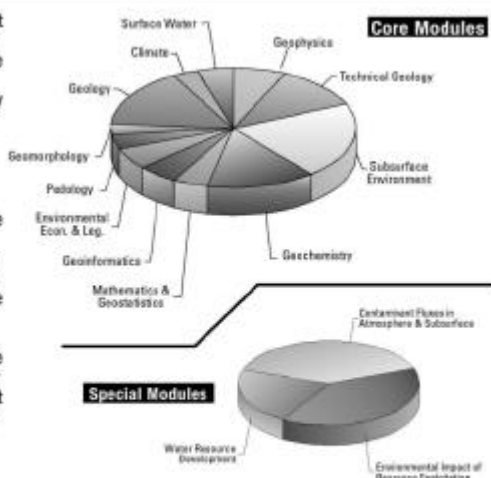
The Netherlands National Committee of IAH, together with other Dutch water related societies and institutions organised a national conference in September 2000 as a follow up to the 2nd World Water Forum held in The Hague. The object was to discuss how the role of groundwater in integrated water resources management could be better promoted. The proceedings of the conference, which emphasise the importance of understanding, over space and time, the complex variations in groundwater if it is to be properly managed, are now published. For details of availability contact the Netherlands National Committee of IAH j.heederik@nitg.tno.nl



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The analysis and evaluation of environmental problems in order to derive ecologically and economically acceptable solutions based on a multi-disciplinary approach and the application of modern technology is the main theme of this Masters course. In total fifteen modules taught in English are offered over a two year period, twelve core course modules and three special modules. The core modules are divided according to particular subject area and the special modules require the application of the knowledge gained in several core modules. A breakdown of the emphasis placed on the individual core and special modules can be seen in the pie charts.

The course is unique in that about 40% is taught by leading specialists from within and outside of the European Community external to the Geoscience Faculty at the University of Tübingen, which itself hosts the Chair of Applied Geology, a recognised leading centre in Applied Geoscience. Currently a maximum of 30 study places are available each year starting in September. As the first Masters course of its kind in Europe, the State of Baden-Württemberg, the University of Tübingen and the German Academic Exchange Service (DAAD) support the course enabling the Geoscience Faculty to offer the course free of student fees for the following two years.



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Conference Listing

Summary details of conferences with e-mail or web addresses are given below. For a fuller list of conferences and more details, including hot links to web sites visit www.iah.org/conf/

2001

July 18-27, Maastricht, The Netherlands. 6th Scientific Assembly of IAHS. E-mail: j.hooghart@nitg.tno.nl

August 10-12, Bergen, Norway. Role of Water in History and Development. Conference of the International Water History Association. Web: www.iwha.net

September 5-6 Burlington, Vermont, U.S.A. International Conference on Wetlands and Remediation. E-mail: conferencegroup@compuserve.com

September 9-15, Munich, Germany. Thirty-First Congress of IAH. New Approaches to Characterising Groundwater Flow. Web: www.agh.geo.uni-muenchen.de/munich2001/

September 11-14, Golden, Colorado, U.S.A. MODFLOW 2001 and Other Modeling Odysseys. Web: www.mines.edu/igwmc/events/modflow2001/

September 16-19, Calgary, Canada. 2nd Joint IAH Canada/Canadian Geotechnical Society Groundwater Speciality Conference and part of 2001 - An Earth Odyssey. Web: www.geo.ucalgary.ca/iah-cnc/

September 19-21, Ostrava, Czech Republic. 11th Czech National Hydrogeology Congress. E-mail: grmeela@vsb.cz

September 20-22, Besançon, France. Conference on Limestone Hydrology and Fissured Media. Web: <http://karst.univ-fcomte.fr>

September 25-27, Koblenz, Germany. International Conference on Hydrological Challenges in Transboundary Water Resources Management. Web: www.bafg.de/html/aktuell/hydrological_challenge.htm

October 4-5, Birmingham, U.K. Protecting Groundwater - An international conference on applying policies and decision-making tools to land-use planning. Web: www.environment-agency.gov.uk/gwcl

October 17-19, Alicante, Spain. International Workshop on Investigation, Management and Remediation of Contaminated Aquifers. E-mail: igmevalencia@ono.com

November 1-2, Sacramento, California, U.S.A. Managing California's Groundwater: Challenges of Quality and Quantity Organised by the California Groundwater Resource Association. Web: www.grac.org or www.waterresources.ucr.edu

December 10-13, Canberra, Australia. MODSIM2001 - International Congress on Modeling and Simulation. Web: <http://cres.anu.edu.au/~tony/modsim2001.htm>

2002

February 20-22, Dindigul, Tamilnadu, India. International Groundwater Conference on sustainable development and management of groundwater resources in semi-arid regions. E-mail: postmast@csngri.ren.in

March 4-7 Bremen, Germany. International Conference on geochemical processes with long-term effects in anthropogenically affected seepage and groundwater. Web: www.geochemie.uni-bremen.de

March 23-27, Kuwait. International Conference on Water Resources Management in Arid Regions. E-mail: mrashed@kisar.edu.kw

March 25-29 Berkley, California, U.S.A. International Groundwater Symposium – Bridging the Gap between Measurements and Modelling in Heterogeneous Media. E-mail: anfindik@bechtel.com

May 12-17, Darwin, Australia. International Conference on Balancing the Groundwater Budget. Organised by IAH Australia – Northern Territory Branch. Web: www1.octa4.net.au/iahtnt/conference.htm

June 4-7 Wisla, Poland IAH Euromeeting 2002 – Workshop on Nitrate in Groundwater in Europe. E-mail: lraz@pigog.com.pl

June 17-20 Prague, Czech Republic. ModelCARE 2002: Fourth International Conference on Calibration and Reliability in Groundwater Modelling. Web: www.guarant.cz/ModelCARE2002

September 22-26, Adelaide, Australia. ISAR4 - 4th International Symposium on Artificial Recharge. Management of Aquifer Recharge for Sustainability. Web: www.groundwater.com.au/conf/ISAR4.htm

October 15-19 Denver, Colorado, U.S.A. International Workshop on Integrated Water Resource Management. Web: www.usbr.gov

October 21-25, Mar del Plata, Argentina. Thirty-Second IAH Congress on Groundwater and Human Development. Web: www.mdp.edu.ar/exactas/geologia/iah2002/iah2002.html

2003

Spring, Esfahan, Iran. International Symposium on Karst and Hard Rock Formations. Fax: +98 21 7533186.

April, Montpellier, France. International Conference on Hydrology in the Mediterranean and Semi-arid Regions. E-mail: eric.servat@mpl.ird.fr

September 15-19, Prague, Czech Republic. Conference on Groundwater in Fractured Rocks. E-mail: krasny@natur.cuni.cz

September 22-26, Ljubljana, Slovenia. Conference on Groundwater in Geological Engineering. E-Mail: andrej.juren@siol.net

2004

August, Florence, Italy. 32nd International Geological Congress. E-mail: 32igc@32igc.org; Web: www.32igc.org