

# International Association of Hydrogeologists U.S. National Chapter Newsletter

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Editors: Colin J. Booth, Northern Illinois University  
And Todd Halihan, Oklahoma State University.



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## IAH/US NATIONAL CHAPTER: EXECUTIVE COMMITTEE 2005-2008

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### EDITORS' NOTE

Welcome to the Spring 2007 newsletter! This issue is a little briefer than usual because, as we said in the e-mail sent out to you a while ago, we are intending to work on a more substantial newsletter than usual in Fall. In addition to the usual e-mailing, we will also be sending out a limited number of hard copy mailings to university departments etc. as part of our new membership drive.

For the Fall newsletter, we would like to develop more articles from you, the US members, on working in hydrogeology internationally – as the International Association of Hydrogeologists, an important part of our mission is international cooperation and interests in the groundwater world. Areas of interest could be international research cooperation, international consulting experiences, groundwater work or situations in the developing world, or indeed any aspect of international hydrogeological work in the developed or developing world that would be of interest to the IAH/USNC readership. What's interesting? Well, whatever would be interesting to you is liable to be interesting to others! You can view this as your contribution to helping IAH membership, or furthering international cooperation and science, or simply as a chance to write about something that you think others will find interesting.

As always, we reserve the right to edit items for length and English, and at the moment we are not including ads for for-profit products or services. We'll be issuing an e-mail reminder to send us items later in the summer, but please feel free to submit material at any time before then, too; we're happy to start collecting as early as possible.

Thank you, and have a great summer.

*Colin Booth & Todd Halihan*

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### CHAIRMAN'S REPORT – BY JACK SHARP

Greetings colleagues:

Your chapter has taken several important actions since last fall, concerning both incorporation and chapter meetings in the USA.

By the time you read this article, we will have taken all the steps necessary to achieve incorporation as a non-profit organization. We filed on March 15 with Colorado Secretary of State to register as a non-profit corporation in Colorado (GSA provides the permanent address), and the forms to register as a 501c3 organization have been filed with the Internal Revenue Service. This means that we can earn interest on our funds and accept charitable donations. It has been proposed that an endowed fund be established to help support student participation at IAH meetings outside the USA. If you are interested in contributing or establishing an endowment, contact Todd Halihan ([todd.halihan@okstate.edu](mailto:todd.halihan@okstate.edu)) or me ([jmsharp@mail.utexas.edu](mailto:jmsharp@mail.utexas.edu)).

Also, we have acted to increase our presence at our sister-society meetings. With respect to the annual meeting of the Geological Society of America (GSA), our board meeting will be on the official program and will be held late Sunday afternoon before the GSA welcoming party at the GSA Presidential Suite. This meeting is, as always, open to all U.S. IAH chapter members or to those wishing to become members. In addition, we are investigating the possibility of a booth at the annual meeting, if the cost is reasonable.

We are setting up two program committees to coordinate with GSA and the National Ground Water Association (NGWA). Previously our participation with GSA and NGWA has been on an *ad hoc* basis with good representation some years and minimal representation in others. Mike Wireman and Vic Heilweil, who are both IAH/US Chapter Directors, have volunteered to head the committees for GSA and NGWA programs, respectively. Our goal is to have a more substantial presence every fall at the GSA annual and every spring at the NGWA Ground Water Summit with theme sessions or symposia sponsored or co-sponsored by IAH. We can also sponsor sessions at GSA Sectional meetings and the NGWA annual meeting, if desired. The plan is to set up 3-5 person committees with a rotating membership to coordinate these initiatives. Please contact Mike or Vic directly, if you are interested in developing these scientific programs. We will probably also contact some members directly to establish these committees. The annual GSA meeting in Houston in the fall of 2008 offers special opportunities to work with our colleagues in Mexico and Central America.

The Board voted that we take steps to organize an official IAH Conference on Sustainable Groundwater management in late 2008 or 2009 (see item under Conference Notices). IAH Conferences are smaller than the IAH Congresses; we would have a limit of about 200 participants. Mike, Vic, Suzanne Pierce (Sandia), Ingrid Verstaeten (USGS), and I are taking the initial lead on this conference. If you are interested in participating, please contact any of us.

I also want to draw your attention to two IAH meetings to be held next fall – the 34th IAH Congress in Portugal and ISMAR6 in Phoenix, Arizona. On 17-21 September, the 34th Congress will focus on Groundwater and Ecosystems. A splendid collection of papers and mid-conference field trips have been arranged. The Congresses are wonderful scientific experiences and are perhaps the best way of networking with fellow hydrogeologists and other groundwater specialists on an international basis. If you have never attended an IAH Congress, I urge you to treat yourself to one. This Congress will be preceded on the 16th of September by a Conference on the History of Hydrogeology in Lisbon. For more information on the Congress or the History of Hydrogeology Conference, use the following link: <http://www.geo.ua.pt/aih-gp/iah2007>. The International Symposium on Managed Aquifer Recharge (ISMAR6) will be in Phoenix, Arizona, on 28 October-2 November. The conference is jointly sponsored by IAH, the Arizona Hydrological Society, UNESCO, NWRI, and EWRI. For more information see the link: [www.ismar2007.org](http://www.ismar2007.org).

Finally, one item is less positive. We suffered a loss of members between 2006 and 2007. This may have been due to some communications problems between the national chapter and the international

office or due to a drop-off in members of the California Groundwater Association who were offered a special dual membership for a short time experiment. Nevertheless, this drop was somewhat surprising to me because the Hydrogeology Journal has become a superb scientific journal, the congresses and conferences are so very enjoyable, globalization should be leading us to become more internationally aware, and our dues are reasonable (but let's hope the U.S. dollar starts gaining some strength versus the euro).

Please encourage your colleagues and students to join IAH. The information and form follow.

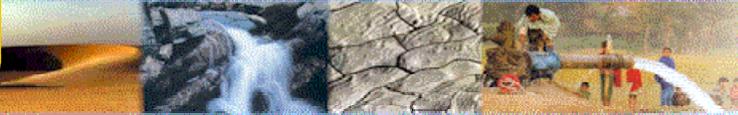
So, let's all study nature - especially groundwater everywhere.

*-- Jack Sharp*

P.S. A list of IAH publications can be found at <http://www.iah.org/pubs.htm>.



Your Board met in conjunction with NGWA Ground Water Summit in Albuquerque in May. Left to right are: Colin Booth, Mike Wireman, Vic Heilweil, and Jack Sharp. Photo taken by John Moore.



**International Association of Hydrogeologists**  
**APPLICATION FOR 2007 IAH MEMBERSHIP**

<b>Last Name:</b>	
<b>First Name &amp; M.I.:</b>	
<b>Title:</b>	

<b>Organization/Company:</b>	
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<b>Mailing Address:</b>	

<b>Telephone:</b>	
<b>E-mail:</b>	

<b>Fax:</b>	
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**Type of IAH membership applied for:**

- Full membership (\$85.00 or 68 Euros)
- Student membership (\$42.00 or 33 Euros)
- Corporate membership (includes 3 individual memberships) \* (\$457.00/365 Euros)
- Full membership with contribution to developing country sponsorship\*\* (\$127/101 Euros)

\* More information available on IAH web site.

\*\* If you choose to sponsor another member, the IAH Secretariat will send you full information.

For on-line membership application and credit card payment over a secure server, go to:

<http://www.iah.org/member.htm>

(After completing & submitting the online form, you can pay online through a secure server.  
 For credit card payment in dollars, the current conversion rate will be provided and charged.)

**OR option for payment by check for U.S. residents only:**

Mail form along with your check (made out to **IAH/US Chapter**) for payment of dues to:

**Dr. Todd Halihan, School of Geology, Oklahoma State Univ., Stillwater, OK 74078-3031**

**For additional information about IAH, go to their Web page at: <http://www.iah.org/>**

Membership includes a 1-year subscription to *HYDROGEOLOGY JOURNAL*.

## NOTICES AND ANNOUNCEMENTS

### **Proposed IAH/USNC Conference: Sustainable Management Of Ground-Water Resources**

The US Chapter of the IAH is planning a conference that focuses on Sustainable Management of Ground-Water Resources. This topic is timely given the increasing demands on ground-water resources combined with increasing frequency of droughts and the unknown effects of global climate change on ground-water resources. The conference could be held in 2008 or 2009 and possible locations include States that border Canada or Mexico. The US Chapter of IAH has not sponsored a conference since 1998 (IAH/AIH “Gambling with Ground Water” in Las Vegas). Initial discussions about a conference have occurred among the President and the Executive Board of Directors. However we would like to hear from US members of IAH. Please provide your thoughts and suggestions to Mike Wireman ([wireman.mike@epa.gov](mailto:wireman.mike@epa.gov)) (303-312-6719). Let us know if you think a conference is a good idea; if the topic is appropriate and where the conference should be convened.

*-- Mike Wireman*

### **Development of National Ground-Water Monitoring Framework**

In January 2007 the Sub-Committee on Ground Water (SOGW) was formally designated as a sub-committee of the Advisory Committee on Water Information (ACWI). The ACWI was established by the Secretary of the Interior in 1996 as part of the Water Information Coordination Program pursuant to the Federal Advisory Committee Act. The purposes of the ACWI are to identify water information needs, evaluate the effectiveness of water information programs and recommend improvements. The ACWI membership includes all levels of government, Indian Tribal governments and the private sector. The Chair of the ACWI is the Department of Interior’s Deputy Assistant Secretary for Water and Science. The alternate Chair is the Associate Director for Water of the USGS.

The overall goal of the SOGW is to develop and encourage implementation of a nationwide, long-term ground-water quantity and quality monitoring framework that would provide information necessary for the planning, management, and development of ground-water supplies to meet current and future water needs and ecosystem requirements.

In undertaking its work, the SOGW will consider policies, programs, and funding for the collection, analysis, assessment, distribution, reporting, and use of ground-water data at all levels of government and in the private sector. The SOGW will review products and activities of ACWI or ACWI subgroups and their predecessors relevant to ground-water monitoring, data acquisition or storage and retrieval. Along with water use and other information, the overall assessment then can be used to assist in the evaluation of the availability and/or sustainability of the ground-water resource, in conjunction with constraints from ecological/environmental needs and from water-quality conditions.

The Co-Chairs of the SOGW are Bill Cunningham of the USGS (Reston, VA) and Bob Schrieber of the American Society of Civil Engineers. Four workgroups have been established to facilitate conducting the business of the SOGW: (a) Inventory Workgroup, (b) Data Standards and Data Management Workgroup, (c) Field Practices Workgroup, and (d) Monitoring Design Workgroup. The work completed by these four workgroups will provide the basis for a summary report that outlines the proposed Ground-water monitoring framework. The report is scheduled to be submitted to the ACWI in January 2008. For more information on the ACWI and the SOGW please visit [www.acwi.gov](http://www.acwi.gov).

*-- Mike Wireman*

## Earth Portal Web Site

According to a recent AGI news release, the National Council for Science and the Environment (NCSE) has launched a new web-based resource called “Earth Portal.” It is described as follows:

“Earth Portal is a comprehensive, free and dynamic resource for timely, objective, science-based information about the environment built by a global community of environmental experts: educators, physical, life, and social scientists, scholars, and professionals who have joined together to communicate to the world. In contrast to information from anonymous sources with no quality control, the Earth Portal is created and governed by individuals and organizations who put their names behind their words and where attribution and expert-review for accuracy are fundamental.”

One of the site’s “hot topics” is water, and that section includes water profiles for a large number of countries and regions around the world—from Afghanistan to Zimbabwe.

Check out the portal at: [www.EarthPortal.org](http://www.EarthPortal.org)

-- Lenny Konikow

## Groundwater Law News

*By Gabriel Eckstein*

**The International Water Law Project (IWLP)**, the premier Internet resource for international water law and policy information, has released its redesigned web site ([www.InternationalWaterLaw.org](http://www.InternationalWaterLaw.org) or [www.WaterLaw.org](http://www.WaterLaw.org) ) with a dynamic, new look; an expanded repository of relevant documents and information; a dynamic news source providing up-to-the-minute news on global and local water issues; improved navigational features; built in language translator to make the web site available in other languages (e.g., Arabic, French, German, Italian, Japanese, Russian and Spanish); and much more. A press release is available at: <http://www.waterlaw.org/pressrelease.html>.

**The US-Mexico Transboundary Aquifer Assessment Act** (Public Law No: 109-448) was signed into law by President Bush on December 22, 2006. The law, which had been pursued for many years, directs the US Department of Interior to cooperate with the US States of Arizona, California, New Mexico and Texas along the US-Mexico border, and other appropriate entities, to systematically conduct a hydrogeological characterization, mapping, and modeling program for priority transboundary aquifers. Priority transboundary aquifers are defined by criteria that include proximity to areas of high population density, extent of use, susceptibility to contamination, and other relevant criteria. The purpose of the program is to:

- 1) evaluate all available data;
- 2) create a new or enhance an existing geographic information system database to characterize the spatial and temporal aspects of each aquifer;
- 3) support ongoing monitoring and metering efforts; and
- 4) develop scientifically sound ground water flow models, including modeling of relevant water interactions.

The program is also intended to expand existing agreements between the US Geological Survey, the four

U.S. border-States, relevant water resources research institutes, and appropriate U.S. and Mexican authorities to conduct joint scientific investigations and archive and share relevant data. This Act establishes a tri-regional planning group comprised of the El Paso Water Utilities Public Service Board, Lower Rio Grande Water Users Organization, and Junta Municipal de Agua y Saneamiento de Ciudad Juarez, and also involves the International Boundary and Water Commission, water resources research institutes in each US State, Sandia National Laboratories, and Indian tribes whose reservations includes a transboundary aquifer. The Act is authorized through 2016 and provides that up to US\$50 million may be appropriated to carry out the purposes of the Act. Congress has yet to appropriate the funds.

*Gabriel Eckstein  
George W. McCleskey Professor of Water Law  
Director, Center for Water Law & Policy  
Texas Tech University School of Law*

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## CONFERENCE AND MEETING NOTICES

For conference announcements by IAH, please go to the IAH website, [www.iah.org](http://www.iah.org)

For announcements of conferences and meetings being presented by California GRA  
See the GRA section below.

### GEOLOGICAL SOCIETY OF AMERICA ANNUAL MEETING

October 28-31, 2007, Denver

2007 Earth Sciences for Society – Beginning of the International Year of Planet Earth

[www.geosociety.org](http://www.geosociety.org)

Deadline for abstracts: July 10, 2007

IAH/USNC Annual Board & members open meeting: Sunday October 28, GSA Presidential Suite, late Sunday afternoon before the GSA Welcoming Party (see meeting agenda)

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### SALINITY FORUM

**2<sup>nd</sup> International Salinity Forum: “Salinity, Water and Society—Global Issues, Local Action”**  
Adelaide, South Australia, March 31 – April 3, 2008.

The conference will focus on new approaches for understanding and managing salinization of water resources, including issues related to irrigation, dryland and urban salinity, and saltwater intrusion. See the Forum website at: [www.internationalsalinityforum.org](http://www.internationalsalinityforum.org)

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### INTERNATIONAL MINE WATER ASSOCIATION

Xth IMWA CONGRESS

June 1-5, 2008, Karlovy Vary (Carlsbad) Czech Republic

See: [www.imwa.info](http://www.imwa.info)

Topics:

- [1] Water issues in underground mining and constructions – hydrogeological, technical and environmental aspects
- [2] Water issues in open pit mining - – hydrogeological, technical and environmental aspects
- [3] Mine water uses – resources of mineral water, geothermal energy
- [4] Mine closure -reclamation/remediation at abandoned mine sites
- [5] Geochemical and biogeochemical processes in mining and reclamation/remediation
- [6] Water engineering – mine water management, mine dewatering, application of mathematical modelling
- [7] Mine water legal aspects, integrated water management

**Abstract submission deadline: January 15, 2008**

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## **IAH ALLIED ACTIVITIES WITH THE GROUNDWATER RESOURCES ASSOCIATION OF CALIFORNIA**

*By Vicki Kretsinger, GRA Director*

### **GRA Becomes an Associated Society of GSA**

Since its inception, the Groundwater Resources Association of California (GRA), a statewide, nonprofit organization [501(c)(6)] with over 1300 members, has fostered opportunities for collaborating with a wide range of agencies and organizations having goals and objectives similar to those valued by GRA. Allied endeavors have included, but not been limited to, promoting the importance of protecting and managing groundwater resources, advancing the geosciences, and enhancing the professional growth of members. Since 1992 there have been more than a dozen co-sponsors and/or cooperating organizations with GRA; IAH and GRA developed an allied partnership in 2001, and this alliance has included IAH's participation as a cooperating organization for many of GRA's educational events and training workshops.

The Geological Society of America's Council has now approved GRA as an Associated Society of GSA. GRA's objectives for this and its other organizational alliances include:

- Consistent aims and goals with those of GRA, particularly in regards to the advancement of the earth sciences education and professional contributions to the understanding, protection, and management of the earth's groundwater resources;
- Explore future co-sponsored events, such as a session at the Annual meeting, and vice versa as appropriate;
- Cooperatively support legislative issues pertaining to groundwater and the groundwater industry, including actions to address national groundwater needs;
- Disseminate technical information related to groundwater (including in organizational newsletters);
- Offer collaborative technical/scientific input and evaluation of proposed position statements or other earth science initiatives, as applicable;

- Promote and encourage geoscientists/groundwater professionals throughout the industry to contribute to the education of not only themselves or other members but also the public and especially students;
- Unite with other geoscience organizations to support and promote Earth system science education at all levels to improve our understanding of the complexity of Earth's systems and encourage protection of its valuable resources. (See also NGWA's position statement "Declaration of The Importance of Earth Systems Science Education" at <http://www.ngwa.org/ngwainwashington/earthscience.cfm> . GSA's policy statement on "The Importance of Teaching Earth Science in Schools" at <http://www.geosociety.org/science/govpolicy.htm>) and AGI's brochure on communicating how Earth science benefits society [http://www.agiweb.org/education/WhyEarthScience/Why\\_Earth\\_Science.pdf](http://www.agiweb.org/education/WhyEarthScience/Why_Earth_Science.pdf))

GRA also co-sponsors the University of California Water Resources Center Archives "California Colloquium on Water" lecture series. This series sponsors scholars of distinction who provide presentations directed toward the goals of increasing the understanding and appreciation of water resources and to contribute to informed decisions about water in California.

### **GRA -- Upcoming 2007 Events**

Upcoming GRA events for which the USNC/IAH is a cooperating organization are described below. As members of a cooperating organization, IAH members enjoy GRA member rates to attend these events.

#### **Increasing Groundwater Storage to Meet California's Future Demand – Challenges & Solutions June 20-21, 2007, Long Beach, California**

Presenters at this symposium will discuss many critical factors related to groundwater storage and recharge. Sessions will cover: legal, regulatory, and policy issues; water-quality concerns; planning tools; and a broad range of case studies. An optional field trip on June 22 will focus on groundwater recharge programs in the Los Angeles area.

#### **Environmental Information Management Systems August 22, 2007, Irvine, California**

In today's environmental industry, it is common for data and information to be dispersed in various storage and communication vehicles. Presenters at this symposium will focus on accelerating data management needs, including data organization and archival management methods and tools.

#### **26<sup>th</sup> Biennial Groundwater Conference and 16<sup>th</sup> Annual GRA Meeting: "California's Water Future: Expanding the Role of Groundwater" September 18-19, 2007, Sacramento Convention Center; Sacramento, California**

For more than 50 years, the Biennial Groundwater Conference has provided policy-makers, practitioners, researchers, and educators the opportunity to learn about the current policies, regulations, and technical challenges affecting the use and management of groundwater. Sponsors of this conference include the University of California Center for Water Resources, GRA, DWR, WEF, SWRCB, and USGS. Cooperating organizations include IAH and NGWA.

**Call for Poster Presentations and Conference Program Information:** The Poster application form, an abstract template, and additional conference program details are available from the conference website: <http://www.lib.berkeley.edu/WRCA/WRC/GW26th.html>.

**Poster Abstract Deadlines:** **June 22** for submittal of an application form expressing interest in presenting a poster and **July 3** for submission of poster abstracts.

**DNAPL Source Zone Characterization and Removal**  
November 14-15, 2007, Long Beach, California

Planned Symposium topics include: source zone characterization and monitoring using high-resolution techniques; predicting source zone architecture and persistence; characterization and remediation strategies for deep hydrogeologic systems; characterization and remediation challenges for non-chlorinated DNAPLs; mass flux determination/implications for source zone removal; and DNAPL site closure strategies.

IAH members are welcome to express their interest in assisting with the planning of these events or participating as a session organizer or presenter by contacting GRA. Learn more about GRA, or the programs in which IAH is participating with GRA as a cooperator, on the GRA web site at <http://www.grac.org>, or by telephone, 916-446-3626.

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**NGWA-AGWSE**  
**Association of Ground Water Scientists and Engineers**  
**division of the National Ground Water Association**  
*- by Vicki Kretsinger, AGWSE Past Chair*

**NGWA/AGWSE Division and IAH: Collaborative Activities in 2007**

**IAH Co-Sponsors 3<sup>rd</sup> Annual NGWA/AGWSE Ground Water Summit**

The Association of Ground Water Scientists and Engineers' (AGWSE, division of the National Ground Water Association) convened the third annual "Ground Water Summit" April 29 – May 3, 2007 in Albuquerque, New Mexico. The AGWSE Board extends a hearty thanks to all its co-sponsors, including the IAH USNC. Officers and/or Directors of the IAH USNC, including Jack Sharp, Victor Heilweil, Mike Wireman and Colin Booth, were actively involved in session planning and/or presentations.

**2008 Ground Water Summit – Session Proposals Due August 1, 2007**

The call for session proposals is now open for the 2008 Ground Water Summit scheduled to take place March 30 – April 3, 2008 in Memphis, Tennessee. Planning is underway, and the AGWSE Board and Ground Water Summit Task Force, including Summit co-chairs Dan Stephens of Daniel B. Stephens & Associates and Jerry Anderson of the University of Memphis, welcome continued event co-sponsorship by IAH. Events being planned for the 2008 Summit are listed at <http://www.ngwa.org/e/conf/0803305095.cfm>. Help formulate the content for the 2008 Ground Water Summit by submitting a proposal for a session, professional development course, and/or field trip. All session proposals (paragraph description of up to 100 words on the session topic) for the 2008 Ground Water Summit must be submitted online in electronic format. Session proposals are due **August 1, 2007**.

## **GSA 2007 Annual Meeting: NGWA/AGWSE Sessions**

Thirty-three hydrogeology-related sessions are being planned and co-sponsored by the Geological Society of America's Hydrogeology Division and other groups at the 2007 GSA Annual Meeting and Exhibition, "2007 Earth Sciences for Society, Beginning of the International Year of Planet Earth," October 28-31, 2007 in Denver, Colorado. As an Associated Society of GSA, NGWA/AGWSE will be co-sponsoring three topical sessions, as described on GSA's web site:

<http://www.geosociety.org/meetings/2007/sessions/topical.asp>. These are:

### **Regional Groundwater Flow: In Honor of József Tóth (Session T34)**

is being organized by Ben Rostron of the University of Alberta Canada and Frank Schwartz of Ohio State University. On the 45th anniversary of the publication of "A theory of groundwater motion in small drainage basins in Central Alberta," this session will honor József Tóth's contributions to hydrogeology. Notably, Tóth was honored by NGWA as the 2003 M. King Hubbert award recipient. When presenting the M. King Hubbert award to Tóth, Warren Wood of Michigan State University made these comments: "In many ways he [Joe] epitomizes the intent of the M. King Hubbert Medal, having made contributions to ground water science that are recognized worldwide and that are applied to practical problem solving daily. He has also mentored students who have themselves gained attention and had significant impact on the science of fluids in the subsurface. .... Joe has been, and continues to be, an extraordinary teacher and mentor. His reputation has attracted many students who have excelled in the field of ground water and subsurface fluid flow. I would be remiss if I did not take a moment to praise Joe Tóth the person. If the phrase "scholar and gentleman" can truly be applied to anyone, it is certainly Joe. He is unselfish in his research, willingly shares his insights and ideas."

### **High-Resolution Geophysical Methods for Hydrogeologic Site Characterization (Session T41)**

is convened by John Jansen of Ruckert-Mielke and AGWSE Division Board member. It will present an overview of the state of the practice of high resolution surface and borehole geophysical methods and their application to a variety of groundwater investigations. Recent advances in equipment have increased the resolution and accuracy of geophysical methods significantly. As a result, geophysical surveys can provide better and more reliable data. Planned session topics include water resources investigations, environmental site characterization, monitoring remediation processes, and other shallow applications.

### **Conjunctive Use of Surface and Groundwater: The Role of Scientists in Informing Policy Makers, Developing Management Approaches, and Implementing Mitigation Measures (Session T47)**

is being co-convened by Vicki Kretsinger of Luhdorff and Scalmanini, Consulting Engineers and AGWSE Division Past Chair and John Bredehoeft of Hydrodynamics and AGWSE Board member. Managed conjunctive use of surface and groundwater is a key to addressing supply imbalances and shortages. This session, co-sponsored by NGWA/AGWSE, GSA's Hydrogeology Division and GSA's Geology and Society Division, highlights the need to better inform policy makers so that science-based policies allow for managed groundwater development and use while mitigating pumping impacts. Invited speakers presenting in this session include Marios Sophocleous (Kansas State Geological Survey), Paul Barlow (U.S. Geological Survey), Donna Cosgrove (University of Idaho at Idaho Falls) and John Bredehoeft. For those who want to share their research on this topic in beautiful Park City, Utah, check out the upcoming 2007 NGWA Theis Conference at <http://www.ngwa.org/e/conf/0709285100.cfm>. The 2007 Conference, "Conjunctive Management of Ground Water and Surface Water: Application of Science to Policy", convened by John Bredehoeft, Marios Sophocleous and Tim Parker, will engage participants in interactive discussion sessions on this topic over the course of several days.

**Abstracts** for Sessions T34, T41, and T47 must be submitted electronically on GSA's web site at [www.geosociety.org](http://www.geosociety.org) (instructions are posted at the site) by July 10, 2007 (11:59 pm Pacific Time). Electronic abstracts will be archived and remain searchable on the site for at least two years. For further

information about Session T34, please contact Ben Rostron at [Ben.Rostron@ualberta.ca](mailto:Ben.Rostron@ualberta.ca) or Frank Schwartz at [frank@geology.ohio-state.edu](mailto:frank@geology.ohio-state.edu). For further information about Session T41, please contact John Jansen at [jjansen@ruekert-mielke.com](mailto:jjansen@ruekert-mielke.com). And, for more information about Session T47, contact Vicki Kretsinger at [vkretsinger@lsce.com](mailto:vkretsinger@lsce.com) or John Bredehoeft at [jdbrede@aol.com](mailto:jdbrede@aol.com).

**NGWA's 2007 Darcy Lecturer**, James Butler, currently a senior scientist in the Geohydrology Section of the Kansas Geological Survey at the University of Kansas (KU), and also serving as an associate of the KU Center for East Asian Studies and a courtesy professor in the KU Department of Geology, will give his Darcy Lecture at the 2007 GSA Annual Meeting and Exhibition. Butler's lecture, "**What the Heck Is a Phreatophyte? A Field Investigation of Ecohydrologic Processes in Stream-Aquifer Systems,**" is an overview of a multidisciplinary investigation of water use by phreatophytes—plants that utilize groundwater—in semiarid riparian zones. Groundwater consumption by nonnative phreatophytes is an issue of considerable concern in the western United States and elsewhere. His lecture describes the various components of the water budget in stream-aquifer systems with an emphasis on the contribution of riparian zone phreatophytes.

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