



# The Hydrogeologist

Newsletter of the  
GSA Hydrogeology Division

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## ***In this issue:***

Chair's Corner .....	p 1
Hydrogeology Division's 50 <sup>th</sup> Anniversary Campaign for Excellence .....	p 3
50 <sup>th</sup> Anniversary Campaign for Excellence Pledge Form .....	p 4
2007 Awards .....	p 5
Come to Houston – October 5-9, 2008 .....	p 6
National Ground Water Association News .....	p 6
Visiting Scholar Opportunity – Fulbright Visiting Chair in Water and the Environment .....	p 7
Jozsef Tóth and Regional Groundwater Flow Celebrated at 2007 GSA Meeting .....	p 8
Hydrogeology Division Candidate Biographies .....	p 9
2008-2009 Hydrogeology Division Officer Ballot .....	p 10

## **Chair's Corner**

### **By Edward A. Sudicky, 2008 Hydrogeology Division Chair**

Welcome, as we proceed to 2008 Houston, a meeting that promises to be the largest ever GSA Annual Conference and Exposition. It is being held jointly with our sister organizations, the American Society of Agronomy, the Crop Science Society of America, Soil Society of America and the Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM, and hosted by the Houston Geological Society. This promises to be a huge meeting, with projected attendance exceeding 12,500. If you have not booked your hotel room yet, I suggest you do so soon. As usual, our Division's activities at the Annual Meeting are impressive, thanks to all who put forward sessions and those that responded by submitting abstracts. The last time I checked, the Hydrogeology Division is hosting about 20 Topical Sessions, 11 joint sessions with our sister organizations and is co-sponsoring another 5 sessions. Special thanks go to Ward Sanford, our Division's Program Chair for 2008, and to Mark Person, Program Past Chair, for doing all the hard work so that we have a successful meeting. I am impressed, and job well done! I've been attending GSA Annual Meetings almost every year for the past 30 years and this level of involvement by our Division is the largest in my memory. While our Division is again hosting the largest number of sessions amongst all Divisions within GSA, I'm still a bit surprised that we still don't have the largest membership amongst all the Divisions (we ended 2007 in 2<sup>nd</sup>, which has been the case for longer than I'd like to think.) This needs to change, folks. So let's get together and do it. I urge all of you to tell your colleagues to join the Hydrogeology Division of the GSA, and I also urge your students to join. I'm sure everyone knows a

colleague or two that is not a member that should be a member, so make a point of asking them to join. It's inexpensive. And make sure they "tick" the "Hydrogeology Division" box when they join GSA. We have a vibrant student membership, but let's keep it growing. Keep in mind the cost is trivial, but the benefits are extremely rewarding. I can still remember when I was a student back in 1978 and my M.Sc. advisor, John Cherry (erstwhile Chair of our Division), pushed me onto the stage to give my first ever public talk, at a GSA. As a virgin speaker/presenter, I was as nervous as one could imagine. But the talk went well, and so I thought GSA was a good forum; hence, the 30 years of attendance at Annual Meetings, continual membership, and now chairing the Division.

Special thanks go to Scott Bair (2<sup>nd</sup> Vice-Chair), Carol Wicks (1<sup>st</sup> Vice-Chair) and Brian Katz (Secretary-Treasurer) for all their work, advising the Board and taking care of matters while I've been rather constantly travelling. Without your assistance, guidance and advice, I don't know how I could have survived thus far. I would also like to thank Bob Ritzi for agreeing to serve as our Division's liaison on a GSA Division-Section committee to explore how to better the integration between our Division and the important Section meetings. This is an important task because there has been too much of a disconnect in the past. I urge our Division members to get involved in local section meetings.

I also want to thank Carl Mendoza for taking over the duties as webmaster and newsletter editor for our Division from Ed Harvey, who brilliantly served in this capacity for many years. I know that Carl will serve well, as he's constantly bugging me for input; he was a Ph.D. former student of mine, and it sort of reminds me of the days when he wanted his Ph.D. thesis edits back, asap. Speaking of awards, I'm thrilled that Ed Harvey will receive the GSA Distinguished Service Award, an honor well deserved. Ed has contributed significantly to our Division over the years, especially with his efforts as newsletter editor and webmaster. I also want to say congratulations to Don Thorstenson, who will be receiving this year's Meinzer award. When I spoke to Don while he was vacationing with his wife in Hawaii, he did say how surprised he was, and that he was grinning from ear-to-ear. An award well-deserved for your seminal contributions to our profession. And, to Chunmiao Zheng, congratulations on being selected as the 2009 Birdsall-Dreiss Lecturer. Very deserving, indeed! I encourage you, Chunmiao, to talk to Larry McKay in planning your lecture series, and I wish it every success. It may also probably be good for software sales, so good luck!

We will celebrate our Division's 50<sup>th</sup> anniversary in Portland next year. On the next few pages, Scott Tyler, our past Division Chair, makes the strong case for growing our endowment funds to establish our Division as the leader in promoting Education, Student Research and Outreach. I strongly encourage you to take up Scott's challenge so that we can take the lead for GSA and the world.

**The Hydrogeologist** is a publication of the Hydrogeology Division of the Geological Society of America. It is issued twice a year, to communicate news of interest to members of the Hydrogeology Division. During 1998, the publication moved from paper-based to electronic media. The electronic version may be accessed at the Hydrogeology Division website at <http://GSAhydro.EAS.UAlberta.ca>. Members of the Hydrogeology Division who have electronic mail will receive notification of all new issues. Other members will continue to receive paper copies. Please let us know if you no longer require a paper copy.

Contributions of material are most welcome, and should be directed to the Editor.

Carl Mendoza, Editor

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**Deadline for Submitting Items for the Fall Issue: August 15, 2008**

# Hydrogeology Division's 50<sup>th</sup> Anniversary Campaign for Excellence

**By Scott W. Tyler, 2007 Hydrogeology Division Chair**

As we celebrate the Division's 50<sup>th</sup> anniversary in 2009, it is time to look to the next 50 years to continue our leadership as the professional society for Hydrogeology. The Division has a long tradition of supporting education, research and outreach, and we hope to grow this tradition significantly. Stepping down as Division Chair in 2007, I committed myself to lead our Campaign for Excellence, a campaign that has already benefited tremendously from many of our members through their generous donations and their commitment of time and energy. Thanks to the hard work of division members such as Jean Bahr, Robert Ritzi, Dave Stephenson and many others, we have a vibrant tradition of support for our Division. I would like to take a few minutes of your time to outline our goals for the future and to keep you informed of our activities to date.

Starting in 2007, the Hydrogeology Division of the Geological Society of America initiated a \$500,000 Endowment Campaign in celebration of its 50<sup>th</sup> Anniversary in 2009. I unveiled the goals at the 2007 Annual Meeting, and the Division's leadership is committed to working toward these goals as a cornerstone of our 50<sup>th</sup> Anniversary celebration in Portland in 2009. This ambitious campaign will support the three pillars that the Division embraces: Education, Research, and Outreach. The campaign will support, through the next decade, these vital activities of the Division:

## **1. The Birdsall-Dreiss Distinguished Lecturer Series**

Currently, Birdsall-Dreiss Lecturers receive less than 50% of the funding needed to support their ambitious lecture schedule. For many smaller universities and colleges, where hydrogeology may be a small portion of the curriculum, the Birdsall-Dreiss Lecturer is a unique opportunity for students to be exposed to international caliber research in Hydrogeology. In addition, the Division currently is unable to support international lectures, yet the Division has a strong commitment to increasing its international presence and membership. Of the campaign, the Division anticipates directing ~50% of the annual proceeds from the endowment to support the Birdsall-Dreiss Distinguished Lecturer Series to its full potential.

The Birdsall-Dreiss consists of two separate endowments, the Birdsall Fund and the Dreiss Fund, both in recognition of these two outstanding scientists. Contributors may choose which fund to support, or can simply choose "Birdsall-Dreiss," and the contribution will be split equally between the two endowments.

## **2. Student Researchers**

The Division has a long and productive history of supporting its students through research grants and travel support. But we can and need to do more. The Hydrogeology Division strives to increase its support for Student Research to reflect our growth in student membership and also to support the rising cost of analytical services and advancement in technology. Currently, the Division provides research supplements to a small percentage of its student members, yet there is an increasing need for research support. Proceeds from approximately 30% of the annual proceeds from the endowment will be designated to be used specifically to support the research of the Division's most important membership, our students.

## **3. Outreach and Awards**

The Hydrogeology Division has a long history of outreach to both students and members as part of the Annual Meeting. As the Division has grown, requests for outreach activities such as the Annual Student Reception, Awards Luncheon and support for international presenters always exceed the available

resources of the Division. Consequently we have had to make difficult choices. The Division anticipates directing ~20% of the annual revenue from the endowment to supporting and growing its outreach efforts at the Annual National Meeting and throughout the year.

As we kick off this major funding effort, we already have received significant support from our members. At our Annual Awards Luncheon in late 2007, I challenged those at the luncheon to donate the equivalent of a single cup of coffee every day as we approach our 50<sup>th</sup> anniversary, with the goal of an annual donation of \$500 for the next two years. With this simple request, we raised pledges and donations of over \$14,000 in just a few short minutes!!

And now we are asking the rest of our membership to help ensure that the Hydrogeology Division remains at the forefront of our science for the next 50 years! We are coordinating with the GSA Foundation's Cornerstone Campaign. Your contributions will go directly to the Division's priorities. The "One Cup of Coffee a Day" is our goal, and we hope you will consider it yours as well. If you like, you can designate your priorities for your annual \$500 gift, or any amount you are comfortable with, to one or all of the Division's priorities (i.e., Birdsall-Dreiss, Student Research, or Division Outreach) either electronically on the Foundation's Website (<http://www.gsafweb.org>) or in writing using the form that follows. We all have benefited tremendously from the Hydrogeology Division, and it is now time for all of us to help for the future. No matter how you contribute, your support will ensure that the Division continues to be the leader for Hydrogeology for the next 50 years!

As we go forward toward our 50th Anniversary in 2009, I will continue to keep you updated on our successes. I hope that you will join me and my colleagues who have already supported the Division. I look forward to hearing from all of you, and I'm always available to talk to you about any opportunities, so feel free to give me a call (775-784-6250) or send me an e-mail ([styler@unr.edu](mailto:styler@unr.edu)).

Thank you for your support of our Division!

Scott W. Tyler  
2007 Hydrogeology Division Chair  
University of Nevada, Reno

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## Hydrogeology Division's 50<sup>th</sup> Anniversary Campaign for Excellence Pledge Form

**Yes!!** I want to contribute to the Hydrogeology Division's 50<sup>th</sup> Anniversary Campaign for Excellence!

I would like to have my contribution directed as follows:

- Birdsall Fund
- Dreiss Memorial Fund
- Student Research Grants
- Division Outreach and Awards
- Equally to all of the above

**Please send this coupon along with your check or credit card information to:**

Geological Society of America Foundation  
P.O. Box 9140  
Boulder, CO 80301

**Alternatively, you may contribute directly online at <http://www.gsafweb.org>. Once you are there, click on "Make a Donation".**

## 2007 Awards

**Meinzer Award: Shaun Frape**



**Distinguished Service Award: Janet Herman**



### Student Research Awards

Kamala Brown, California State University, Sacramento, Advisor/Supervisor: Dr. Kevin Cornwell, *Physical and Hydrological Characterization of the Clark Meadow, California.*

Drew Gower, University of Wisconsin, Advisor/Supervisor: Dr. Jean Bahr, *Seepage quantification and modeling of reservoir contribution to groundwater levels in the Nariarele basin of Burkina Faso.*

Jeff Philippe, Oregon State University, Advisor/Supervisor: Dr. Anne Nolin, *Glacier Meltwater Contributions to the Upper Hood River, Oregon, and a model for Future Runoff.*

Rob Venczel, Southern Illinois University, Carbondale, Advisor/Supervisor: Dr. Nicholas Pinter, *Historical Trends in Flow Dynamics and Flood Magnification, Tisza River, Hungary.*

Corinne Wong, University of Texas at Austin, Advisor/Supervisor: Dr. Jay Banner, *Evaluating impacts of Brush Removal on Recharge of a Karst Aquifer.*



Rob Venczel



Corinne Wong

## Come to Houston – October 5-9, 2008

The **2008 GSA Annual Meeting** will be held in Houston, October 5 to 9. The meeting is sponsored jointly by GSA, SSSA, ASA, CSSA, GCAGS and HGS. Program and registration information can be found at <https://www.acsmeetings.org/>. The deadline for abstract submission has passed; however, the following are some highlights of the meeting.

### **Plenary Sessions on Water**

The Impending Global Water Crisis: Geology, Soils, Agronomy, and International Security

Emerging Trace Contaminants in Surface and Ground Water Generated from Waste Water and Solid Waste Application

### **Planned Technical Sessions sponsored by the Hydrogeology Division**

A Celebration of Soil Science, Solute Transport, and National-Scale Water-Quality Research: In Honor of Jacob Rubin

Biofuels Production: Environmental Challenges for Soil and Water

Can Wetland Functions be Meaningfully Characterized from Landscape Position, Climatic Settings, and other Proxy Data?

Connecting the Dots: Linking Energy and Mass Balance to Soil Morphologic and Stratigraphic Processes

Emerging Contaminants in Water, Soils, and Sediments: Sources, Pathways, Interactions, and Ecological Impacts

Hydrological Responses to Changing Climate: Implications for Agriculture and Ecosystems

Impact on Agriculture of the Declining Ogallala Aquifer

Impacts of Energy Development on Water Resources

Land Subsidence Attributable to Subsurface Fluid Extraction in Coastal Lowlands: Contributions to Relative Sea-Level Rise

Scale and Accuracy in Estimating Water Balance

Scaling Methods in Hydrological Research

Soil Physics and Vadose Zone Hydrology: Our Future Contributions

Subsurface Fate and Transport of Agricultural Contaminants

Variably Saturated Flow in Soil and Rock: What's the Same, What's Different?

## **National Ground Water Association News**

### **By William M. Alley, NGWA-AGWSE Liaison**

The Association of Ground Water Scientists and Engineers (AGWSE), a division of the National Ground Water Association (NGWA), convened the fourth annual “Ground Water Summit” March 30-April 3, 2008 in Memphis, Tennessee. Among many exciting activities, Ed Sudicky, chair of the GSA Hydrogeology Division and 2007 winner of the prestigious M. King Hubbert Award from NGWA, gave the keynote address, and Larry McKay gave an engaging presentation on germs and geology as part of the GSA 2007

Distinguished Birdsall-Dreiss Lecture Series. Planning is well under way for the 2009 Ground Water Summit to be held April 19-23, 2009 in Tucson, Arizona. Mark your calendars! The call for session proposals will soon appear on the NGWA Web site [www.ngwa.org](http://www.ngwa.org). Field trips and one-day short courses also are planned.

NGWA is celebrating its 60th anniversary with the theme, "Honoring the past. Treasuring the present. Shaping the future," at the 2008 Ground Water Expo and Annual Meeting, December 2-5, 2008 in Las Vegas, Nevada. Abstracts for topical sessions were due May 25, 2008.

As an Associated Society of GSA, NGWA/AGWSE is co-sponsoring two sessions at the 2008 GSA Annual Meeting and Exposition in Houston this fall. The first, "*Land Subsidence Attributable to Subsurface Fluid Extraction in Coastal Lowlands: Contributions to Relative Sea-Level Rise*," organized by Devin Galloway, Stan Leake, Keith Prince, and Tom Burbey, is a particularly relevant issue to ground-water management in the Houston area. The second, "*Emerging Contaminants in Water, Soils, and Sediments: Sources, Pathways, Interactions, and Ecological Impacts*," organized by Brian Katz and Patrick Phillips, is a hot topic addressed by NGWA at a number of venues in recent years. NGWA appreciates these collaborative opportunities with GSA.

## **Visiting Scholar Opportunity Fulbright Visiting Chair in Water and the Environment**

**By Abe Springer, former Fulbright Visiting Chair**

I encourage members of the Hydrogeology Division of GSA to consider applying for the Fulbright Visiting Chair in Water and the Environment at the University of Lethbridge (UL). I had the pleasure of being the first Chair in the Fall of 2007. UL is a dynamic, growing university, in a Canadian province experiencing an exciting period of growth and wealth. In the summer of 2008, faculty from across UL will move into the new Alberta Water and Environmental Science Building. UL is part of the Alberta Water Research Institute, an outgrowth of the Alberta Ingenuity Fund, with the University of Calgary and the University of Alberta. Together, they are conducting leading edge research in support of a provincial water strategy known as "Water for Life". The visiting chair position is supported by the province through the Canadian-U.S. Fulbright Program Foundation.

Although Alberta is still largely dependent on surface water as a supply, future growth and energy resource development are placing new demands on the groundwater resources of the province. The position is for a research chair. The chair must write a research proposal for the application, then conduct the research, develop collaborations, and offer occasional guest lectures. My research proposal was to study the ecohydrology of the springs of Western Canada. I was able to visit 80 springs in Alberta and adjoining provinces and to collaborate with colleagues at all of the universities in Alberta and Saskatchewan and numerous federal and provincial agencies. The collaborations are being used to help build a research agenda for springs ecosystems in Western North America. In addition to the research grant, the Foundation is able to provide a "mobility award" to travel the country.

Applications are due August 1, 2008. Details about the application and award can be found at [http://www.cies.org/award\\_book/award2009/award/Env9540.htm](http://www.cies.org/award_book/award2009/award/Env9540.htm). Contact Abe at [abe.springer@nau.edu](mailto:abe.springer@nau.edu).

# Jozsef Tóth and Regional Groundwater Flow Celebrated at 2007 GSA Meeting

By Gavin Jensen and Brian Smerdon

The 45<sup>th</sup> anniversary of Jozsef Tóth's unit basin flow system was commemorated in a special technical session at the 2007 GSA Annual Meeting in Denver. Entitled "Regional Groundwater Flow: in Honour of Jozsef Tóth," the full-day session comprised 25 speakers, including 6 previous Meinzer award recipients and many of Dr. Tóth's former graduate students. It was most rewarding to hear the history of Jozsef Tóth's influence, guidance and personal stories from leading hydrogeologist from around the globe.

Commemorative t-shirts adorned with a colorful version of the unit basin were given to each presenter and to a couple of lucky upcoming groundwater scientists during the Hydrogeology Division student reception (the shirts were signed!)

During the technical session there were periods of standing room only, with a peak attendance of about 250 people during Dr. Tóth's "Story of Gravity-Driven Flow Systems – In a Nutshell." The array of outstanding presentations included the application of Tóthian unit basin flow concepts from the scale of small peatlands to entire sedimentary basins. No matter the scale of interest or the hydrological question at hand, the unifying theory present throughout all of the presentations was the concept of the unit basin. This unifying theory of hydrogeology is why Jozsef Tóth is the father of modern hydrogeology, and was recipient of the first Meinzer award in 1965.

Following the session, a banquet dinner was held at Wynkoops Brew Pub, where former students, present colleagues, and the next generation of hydrogeologists had a chance to relax, reconnect and enjoy a visit with Jozsef Tóth. As recent graduates from the University of Alberta, we often took for granted that fact that Dr. Tóth was "just down the hall." His door was always open, and he was eager to discuss the fundamentals of hydrogeology. In Denver, it was evident that his influence continues to inspire hydrological investigations around the globe.

We would like to thank Ben Rostron, Carl Mendoza, Frank Schwartz and Rob Schincariol, for bringing together such an exceptional technical session and subsidiary support from WorleyParsons Komex, IsoBrine Solutions, and the Alberta Research Council for the t-shirts and banquet dinner.



Three generations of hydrogeologists at the University of Alberta:  
Joe Riddell, Brian Smerdon, Carl Mendoza, Jozsef Tóth, Ben Rostron, Gavin Jensen, Dan Palombi

# Hydrogeology Division Candidate Biographies

*The following biographies are for candidates for 2008-2009 office in the Hydrogeology Division. The 2008-2009 Hydrogeology Division Officer Ballot is on the following page.*

**Chair: Carol M. Wicks.** Educ: BS Chem Engg, Clarkson Univ; ME Chem Engg, MS Envtl Sci, PhD Envtl Sci, Univ Virginia; NRC Post-Fellowship USGS, Water Resources Div. Prof Exp: Univ Missouri – Columbia, Dept Geological Sci, 93-present, currently Professor. Prof Affil: GSA since 89, Fellow 05; AGU, NGWA, KWI, NSS. GSA Service: Hydro Div 2nd vice-chr 06-07, 1st vice-chr 07-08; Cmte on Research Grants (04, 05, 06); Joint Technical Planning Cmte (00, 01, 02, 03, 04). Addtnl Service: Karst Waters Inst (President, 4 yrs); Ground Water (Assoc Editor, 3 yrs); Water Resources Rsrch (Assoc Editor, 3 yrs); National Rsrch Council cmte, Everglades. Rsrch Int: Numerical modeling of the karst hydrology and geochemistry; fate and transport of hormonally active agents through karstic aquifers; linking streambed scour events with ecological disturbance events, particularly karstic ecosystems.

**First Vice-Chair: E. Scott Bair.** Educ: BS Geology, College of Wooster; MS, PhD Hydrogeology, Penn State Univ. Prof Exp: currently Ohio State Univ, School of Earth Sciences since 85, currently Professor; Stone & Webster Engg Corp, Geotechnical Division, 6 yrs. Prof Affil: GSA since 95, Fellow 98; CPG-Indiana, GSA, AGU, AGWSE. GSA Service: Hydro Div 2nd vice-chr 07-08; Hydro Div Panel on O.E. Meinzer Award 99-01; Field trip leader 01 GSA Annual Meeting. Honors/Awards: GSA Hydro Div Birdsall-Dreiss Distinguished Lecturer 00; Distinguished Tchg Awd, OSU; Alumni Distinguished Tchg Award, OSU. Rsrch Int: Hydrogeology, environmental geology, petroleum hydrodynamics. Co-author: Practical Problems in Groundwater Hydrology.

**Second Vice-Chair: Edwin F. Harvey.** Hydrogeology, hydrogeochemistry. Educ: BS Geol, Olivet Nazarene U; MS Hydrogeol, Purdue U; PhD Hydrogeol, U Waterloo. Prof Exp: Assoc Director School of Natural Resources (SNR), U Nebraska-Lincoln (UNL); Director Justin Morrill Scholars, Coll of Agricultural Sci & Natural Res, UNL; Asst Prof 96-02, Assoc Prof 02-08, Prof 08-present, SNR, UNL. Prof Affil: GSA since 90, Fellow 06; AGU, NGWA; PG Nebraska. GSA Service: Hydro Div Tech Prog Chr 09-Portland; Tech Prog Co-Chr 08-Houston; newsletter editor 01-08; website admin 02-08; Tech Prog Cmte Field Trip Coord 00; Tech Prog Cmte Envtl Geosci 00-01; Session Convener 06, 02; Session Chr 05, 98, 97, 96. Addtnl Serv: Ground Water Jour, Assoc Edtr 00-pres; Hydrogeology Jour, Assoc Edtr 02-07. Honors/Awards: Certificate of Recognition for Contributions to Students, UNL Teaching Council & Parents Assoc 08; DW Nelson Excellence in Graduate Student Advising Award Nominee 06; Fellow, Center for Great Plains Studies 03; Pearson Medal for Outstanding/ Creative Research 96; Golder Assoc/WCGR Award for Most Innovative/Commercial Research 95. Rsrch Int: Groundwater/surface water interaction, isotope hydrology, wetland hydrology, regional groundwater flow and chemistry.

**Secretary-Treasurer: Brian G. Katz.** Aqueous geochemistry. Educ: BA Chemistry, SUNY Oneonta; MS Geochemistry, Univ Colorado; PhD Geology, Florida State Univ. Currently Research Hydrologist, US Geological Survey; Concurrent Pos: Adjunct Prof, Florida State Univ, Dept Geology 99-present. Prof Affil: GSA since 93, Fellow 96; AGU, NGWA-AGWSE, International Assoc Hydrogeologists. GSA Service: Hydrogeology Div Secretary-Treasurer 06-present; research Grants Committee 98-00; Assoc Editor GSA Bulletin 00-present. Addtnl Service: Guest Editor, Chemical Geology, special issue on Hydrochemistry of Springs 01. Honors/Awards: USGS Superior Service Honor Award 98; USGS National Research Program Lecture Series 02; NGWA-AGWSE John Hem Excellence in Science and Engineering Award 05. Research Interests: Use of environmental isotopes and quantification of geochemical processes in karst aquifer systems.

# 2008-2009 Hydrogeology Division Officer Ballot

**Instructions.** This is the ballot for 2008-09 officers for the **GSA Hydrogeology Division**. Biographies for the candidates are on the preceding page. Submit your vote in **one** of the following ways:

- 1) By **Mail**: Vote on the paper ballot below. Complete the bottom section of the ballot and mail the completed ballot to: Geological Society of America, PO Box 9140, Boulder, CO 80301, Attn: Division Ballot. Ballots must be **received at GSA by August 31, 2008, or**
- 2) By **Fax**: Vote on the paper ballot below. Complete the bottom section of the ballot and fax the completed ballot to: GSA, Attn: Division Ballot, at (303) 357-1074. Ballots must be **received at GSA by August 31, 2008, or**
- 3) **Online**: Vote online at <https://rock.geosociety.org/ballot/vote.asp?Name=hyd>. Logon using your GSA member number (given on your mailing label) or your e-mail address (which will work *only* if your e-mail address is in your GSA member record). For assistance, please contact GSA at [gsaservice@geosociety.org](mailto:gsaservice@geosociety.org) or (303) 357-1000 (option 3) or tollfree in the U.S. at (888) 443-4472. Electronic votes must be **submitted by August 31, 2008.**

**Ballot.** *Vote for no more than one individual for each office.*

## 2008-2009 Officers of the Hydrogeology Division:

**Chair**  Carol M. Wicks

(or write-in) \_\_\_\_\_

**First Vice-Chair**  E. Scott Bair

(or write-in) \_\_\_\_\_

**Second Vice-Chair**  Edwin F. Harvey

(or write-in) \_\_\_\_\_

**Secretary-Treasurer**  Brian G. Katz

(or write-in) \_\_\_\_\_

Your Name (printed) \_\_\_\_\_

Your Signature (required) \_\_\_\_\_

Your GSA Member Number (required)\* \_\_\_\_\_

\* This is at the top of your mailing label. If you need assistance, GSA contact information is printed near the top of this ballot.