



# The Hydrogeologist

Newsletter of the  
GSA Hydrogeology Division

June 1998  
Issue No. 48

## Message from the Chair

Greetings:

As we progress through 1998 there are changes ahead for the Hydrogeology Division. One major goal is to use the opportunities offered by the electronic media to publish the "Hydrogeologist." Ira Sasowsky, as the new editor, will be assisted by Alan Dutton in making this transition. There will be glitches, as there are innumerable hardware and software systems that will have to be matched to enable all to receive the newsletter. Hard copy will still be sent for this (Spring) edition to all members. In addition, all Division members will be emailed instructions on how to access the Web Site containing the Newsletter and download and print the document. If you do not have the software you will be instructed how to download the free software. Beginning Fall 1998, hard copies will be sent only to those members not having Internet access. There will be a significant savings in publication and mailing costs once the system is up and running for electronic distribution. It is also hoped that mailings such as a summary of sessions at the annual meeting can be emailed in a timely manner to members of the Hydrogeology Division. In the meantime your patience will be greatly appreciated as the kinks are straightened.

The Web site is continuing to be enhanced by Webmaster David Long. The goal for the Web site is to be a source of information and contact for members of the Hydrogeology Division and those interested in knowing more about us. The Web site will be used in support of other goals of the Division such as the one described in the following paragraph. If you have ideas on how we can better serve the Division membership with the Web Site please let us know.

Another goal for this year is to take a Member to Fellow. There are many deserving members of the Hydrogeology Division that should be Fellows of GSA. The process is straight forward with minimal paperwork. For an investment of a half a day effort the forms can be completed and the contacts made. The forms and instructions can be obtained from GSA or downloaded from our Web site. I urge Fellows of the Division to take the time to provide this recognition for deserving Members of the Hydrogeology Division.

Although GSA will not fully implement the concept of Topical Sessions for the Toronto Meeting this Fall, it is time to start thinking about what we might do for the 1999 Fall Meeting. Topical Sessions should be of interest to the membership of GSA at large. There will be support to assist in bringing in key speakers. The sessions will usually be a half-day in length, although they may be longer. If your topic has the interest such that hundreds would attend, start making your plans. Bill Simpkins will be the Program Chair for the 1999 Denver Meeting.

A goal of mine for this year is to establish some method for recognizing the contributions of the younger members of the Hydrogeology Division. I have appointed an Ad Hoc Committee (The Young Professional) to investigate and make recommendations to the members at the Annual Meeting in Toronto. Robert Ritzi is Chair of that committee. The contribution of these young professionals to the science, profession and the Division has made a difference and we need to recognize them for their efforts.

For those of you reading this who are not members of the Division, I invite you to become a member. Your annual Division dues, when added to those from other members of the Division, do make a difference. In particular, the support of student research and the Birdsall-Dreiss lecturer represent a valuable contribution to the hydrogeology profession. With your support the Hydrogeology Division can make a greater contribution to the profession.



Darryll Pederson  
Chair  
Hydrogeology Division

## GSA Section Hydrogeology News

### North-Central

Bill Simpkins, Section Representative

The 32nd Annual Meeting of the North-Central Section of GSA convened in Columbus, Ohio on March 19-20, 1998. There were five sessions dealing with hydrogeology topics. Two hydrogeology poster and oral sessions were offered. Additional hydrogeology talks involving contaminant hydrogeology and water quality were placed into 3 oral and poster sessions under Aqueous Geochemistry. Field trips of interest to hydrogeologists included a trip to a longwall coal mine, an underground salt mine, and an acid mine drainage area in southeast Ohio.

### **Other Societies News**

#### American Geophysical Union

Mary Anderson, Division Representative

About 6,000 of the 35,000 members of the American Geophysical Union are affiliated with its Hydrology Section. The outgoing officers of the section are myself, as president, and Ken Bencala (USGS) as secretary. As of July 1, Soroosh Sorooshian (Univ. of Arizona) will become president, Ken Potter (UW-Madison) will be president-elect, and Marc Parlange (Johns Hopkins Univ.) will be secretary.

A principal activity of the Hydrology Section is to organize and promote technical sessions on timely topics in the hydrologic sciences at the AGU Fall and Spring meetings. Proposed topics and descriptions for hydrology technical sessions are developed by the section's ten technical committees. These include: Erosion and Sedimentation,

Groundwater, Large-Scale Field Experimentation, History of Hydrology, Policy Sciences, Precipitation, Remote Sensing, Surface Water, Unsaturated Zone, and Water Quality. The section also works closely with the union-level Committee on Snow, Ice and Permafrost. Students are strongly encouraged to participate in AGU by presenting papers; a number of outstanding student paper awards are made at each meeting. The section also holds an annual competition to support research at the Ph.D. level by means of the Horton Grant. More information about section activities can be found on our Web site: <http://www.esd.ornl.gov/societies/AGU/Hydrology>.

This year's spring meeting was held in Boston from May 26 - 29th. Mark Meier (University of Colorado) presented this year's Langbein Lecture, entitled: "Land Ice on Earth: A Beginning of a Global Synthesis". In addition, a total of 30 special sessions in hydrology were scheduled. The titles of abstracts that have been submitted electronically for the spring meeting are available for viewing on AGU's Web site (<http://www.agu.org>). (Claire Welty, Drexel University and chair of the section's Groundwater Committee, also contributed to this report.)

#### International Association of Hydrogeologists

Jack Sharp, Division Representative

In September, 1997, the British National Committee hosted the XVIIth IAH Congress in Nottingham which had as its focus: "Groundwater in the Urban Environment." A 2 volume proceedings set on this topic should prove a useful reference for years to come. The archery contest's top two finishers were North American.

In February, 1998, the Victorian Chapter of the Australian National Committee hosted an IAH conference in Melbourne which had as its focus: "Groundwater: Sustainable Solutions." Although only a few North Americans were present, the conference had good attendance and the need for site specific solutions was clear.

#### **1997 Annual Business Meeting Minutes**

Joe C. Yelderman Jr.  
Secretary-Treasurer

The 1997 Annual Business Meeting of the Hydrogeology Division, Geological Society of America, was held on Tuesday, October 21, 1997, in the Little America Hotel, Salt Lake City, Utah. The business meeting convened about ten minutes after the luncheon and awards ceremony.

The luncheon started a little after 12:30 P.M. Division Chair, Warren Wood, introduced the head table and recognized past president of GSA, Dave Stevenson and Penrose Medalist John Bredehoeft.

Warren Wood presented a certificate to Mark Person for serving as the Birdsall-Dreiss Lecturer. Mark mentioned that



## The Hydrogeologist

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, publication will move from paper-based to electronic media. The electronic version may be accessed at: <http://www.uakron.edu/geology/gsa/hydro/>. Members of the hydrogeology Division who have electronic mail will receive notification of all new issues. Other members will continue to receive paper copies.

Contributions of material are most welcome, and should be directed to the Editor. Submission via ASCII (text) is most expedient.

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**Deadline for Fall Issue:  
August 22, 1998**

his tour revealed the “maturing” of the hydrogeology departments in many schools, a wide diversity of research efforts and good employment.

Noel Krothe presented the certificates for the 1997 student research awards to Anthony J. Rossman and Eungseok Lee. The advisors for Jenny Hall and Georgios P. Tsoflias accepted the certificates from Noel.

The Distinguished Service Awards Committee selected Stanley Davis and Leonard Wood. Chair of the Distinguished Service Awards Committee, Darryl Pederson, presented the citation for the awardees who each received a plaque in recognition of their service to the division.

John Bredehoeft made the citation for the O. E. Meinzer Award to Lenny Konikow who then gave the response. In his response he stated that “I don’t consider myself a modeler, but I consider myself a hydrogeologist.”

The business meeting was called to order at 2:20 P.M. The first agenda item was necrology. Chair Warren Wood requested a moment of silence in memory of Robert E. Bergstrom, Wallace W. Hagan, James H. Irwin, John R. McHam, and William M. Sandeen. The minutes from the 1996 meeting in Denver, Colorado, were read and approved as published in the newsletter.

Joe Yelderman, Secretary/Treasurer announced the results of the balloting for the division officers. The results included Darryl Pederson, Chair, Mary Jo Baedecker, First Vice-Chair, and Steven Wheatcraft; Second Vice-Chair. Joe also gave a summary of the division’s financial activities as follows:

Fund Balance as of 8-31-97.

Division General Fund	\$12,222.76
Birdsall Fund	\$55,043.64
Dreiss memorial fund	\$22,738.10
Award Fund	\$27,222.99

The transfer of the newsletter to electronic format was discussed and the new editor of the newsletter, Ira Sasowsky, was introduced. Several members requested an e-mail notice when the newsletter comes out on the Web and it will be considered. Kip Solomon thanked everyone who helped with the program and mentioned the improvement in the program planning procedures using Web technology. Kip also mentioned this was one of the largest hydrogeology programs at an annual GSA meeting. Ralph Davis followed Kip by talking briefly about the Toronto meeting. Warren Wood then encouraged those in attendance to contact Jeff Hanor as soon as possible if they wanted to get on the Birdsall-Dreiss tour schedule. Warren also encouraged members to nominate Meinzer Award candidates and to suggest Penrose Conference topics. Brief reports were made by several section representatives and the sections all seem to healthy. Several members belonging to other organizations and divisions talked briefly about cooperation

and interaction with the Hydrogeology Division which seemed to be well received. Bill Wilson, serving as technical editor for the joint IAH and GSA journal reported they were changing publishers and going to 6 issues in 1999. He encouraged members to submit articles.

GSA Annual Program Committee Chair, Sharon Mosher, spoke to the Division members about possible changes in the format of future GSA meetings. She mentioned some of the changes that occurred in 1997 such as the inclusion of “late breaking papers” and expanded poster sessions. A move to focus on keynote speakers and invited symposia or theme sessions is planned for future meetings.

Warren Wood introduced the new Division Chair, Darryll Pederson, and then Darryll adjourned the meeting at 3:40 pm.

### 1998 GSA Meeting in Toronto

The theme for the 1998 GSA Annual Meeting is “Assembly of a Continent”. The meeting will be held in Toronto, Canada, October 26-29. The Hydrogeology Division has worked to help provide an exciting and diverse offering of symposia, theme sessions, field trips, and short courses. One symposium will consider “Multimodal Heterogeneity in Clastic Aquifers: Quantifying Permeability and Lithofacies Distributions”. This is a joint effort of the Hydrogeology Division and the Society for Sedimentary Geology (SEPM).

A second symposium is of a more experimental type. “Understanding Ground Water in Arid and Semiarid Environments of North America and Australia” will be convened by Craig Simmons of Flinders University of South Australia and Todd Halihan and Jack Sharp of The University of Texas. This symposium will feature three invited speakers from each continent. The talks will be presented on video tapes simultaneously in Adelaide (morning) and Toronto (late afternoon or evening), with questions and responses following via the internet.

There will also be a broad array of theme sessions including: Groundwater Flow and Transport into the Great Lakes; Solute Transport in Aquitards Field Studies; Natural Attenuation of Aqueous Contaminants; Groundwater Sustainability; Capture Zones in Fractured Rocks: and Hydrogeologic Controls on Ecosystems.

Field trips that may be of interest include a tour of Ground-Water Experimental Field Sites at the Base Borden Research Site and Other Areas Near Waterloo; Hydrogeology and Late Quaternary History of Point Pelee National Park, Ontario; and Regional Quaternary Geology and Hydrogeology of the Oak Ridges Moraine Area-Greater Toronto Area. In addition, there will be at least one short course of interest, entitled “Teaching Practical Hydrogeology: How to Make Do With Scant Real World Data”.

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A full listing of the technical program for the Toronto meeting was published in the June GSA Today. The Hydrogeology Division contact person for the Toronto meeting is Ralph Davis, Department of Geology, University of Arkansas, 118 Ozark, Fayetteville, AR 72701. Phone: (501) 575-4515; Fax (501) 575-3846; Email: ralphd@comp.uark.edu.

### **Call for Symposia, Theme Session, Field Trip, and Short Course Ideas 1999 GSA Meeting in Denver**

Bill Simpkins is the Hydrogeology Program Chair for the Annual GSA meeting when it returns to Denver in 1999. He is starting his search for ideas on Symposia, Theme Session, and Field Trip Ideas for the meeting. You can avoid later surgery on your limbs by letting Bill know now what you may be able to offer for the meeting. You can email Bill at bsimp@iastate.edu, or make actual human contact at (515)-294-7814.

### **1998 Birdsall-Dreiss Distinguished Lecture**

The Birdsall-Dreiss lecture was presented by Jeffrey S. Hanor of the Department of Geology and Geophysics, Louisiana State University. Jeffrey is the Charles L. Jones Professor of Geology and Geophysics at Louisiana State University. He received his B.A. in Geology from Carleton College and his M.S. and Ph.D. in Geology from Harvard University. He was an NSF Postdoctoral Fellow at the Scripps Institution of Oceanography prior to joining the faculty at Louisiana State University, where he has served as Chairman of the Department of Geology and Director of the School of Geoscience. He and his colleagues at LSU have published on a wide range of topics related to fluids in sedimentary environments. Following is the abstract of his talk:

#### Origin and Migration of Saline Fluids in Sedimentary Basins

Most sedimentary basins contain large volumes of pore water having salinities far in excess of that of normal sea water. Variations in the composition of these saline fluids provide insight into the geochemical, hydrologic, and tectonic evolution of the shallow crust and aid in resolving applied problems related to the generation of sediment-hosted ore deposits, migration of hydrocarbons, distribution of potable water, and disposal of hazardous wastes.

A vast amount of subsurface information exists for the northern Gulf of Mexico sedimentary basin, making it an important natural laboratory for studying the complex interplay which exists between the geological, chemical, and physical processes involved in the generation and large-scale migration of basinal waters. Examples from recent LSU studies will be used to discuss mechanisms for generating brines, driving forces for basinal-scale solute transport in a divergent continental margin, controls on major solute composition, fluid-sediment chemical reactions, and conditions under which a basinal brine might become a potential ore-forming fluid.

### **1999 Birdsall-Dreiss Distinguished Lecture**

Stuart Rojstaczer (stuart@duke.edu) is the Birdsall-Dreiss lecturer for 1999. Requests to be included on his lecture tour may be made at "[http://www.aas.duke.edu/cgi-bin/geo/birdsall\\_dreiss.pl](http://www.aas.duke.edu/cgi-bin/geo/birdsall_dreiss.pl)".

Stuart was born in Milwaukee, Wisconsin. He received a B.S. degree from the University of Wisconsin, an M.S. from the University of Illinois and a Ph.D. from Stanford University. Formerly a research hydrologist with the U.S. Geological Survey, he has been at Duke University since 1990. At Duke University, he serves as an Associate Professor of Geology, Environment and Engineering and as Director of the Center for Hydrologic Science. He has published numerous research articles on a wide range of topics involving subsurface fluid flow and is the author of *Gone for Good: Tales of University Life After the Golden Age* (Oxford University Press, 1999).

Abstracts from his offered talks follow:

#### Faults and Fluids: What Can We Learn About Brittle Failure in the Crust From Shallow Subsurface Hydrology?

Groundwater at depth has been hypothesized to play an important role in fault generation and fault motion. The temptation has been to assume that shallow subsurface hydrology is sometimes significantly coupled to deep seated geologic and hydrologic processes in and around fault zones. Monitoring of shallow subsurface hydrology in areas of active tectonics can provide valuable information about crustal behavior. During aseismic periods, we can quantitatively use pore fluid pressure to monitor elastic deformation near and within faults. The response of shallow groundwater and surface water to earthquakes also gives us information on the state of stress in the near surface and the susceptibility of the near surface to brittle failure. But evidence for significant coupling between shallow and deep hydrology is generally lacking. Evidence of the interaction between faults and fluids is currently heavily dependent on geophysical imaging and geological examination of exhumed fault zones. If we wish to significantly improve our understanding of the interaction between faults and fluids at depth we will likely need to monitor hydrology at seismogenic depths directly.

#### Truly Useful Prediction of Subsurface Contaminant Transport: Can We Ever Have Enough Data?

The threat of contamination of well water is a world wide problem and the future costs associated with clean up of contaminated aquifers or containment of contamination potentially will cost trillions of dollars. In order to assess the risk of contamination and devise effective clean up strategies it is imperative that we be able to predict rates and directions of contaminant movement. Understanding spatial variability and scaling of permeability is a key to predicting contaminant transport in the shallow subsurface.

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## Biographies of Officer Candidates

**Mary Jo Baedecker.** Member of GSA since 1977 and a GSA Fellow since 1995. She is currently the Assistant Chief Hydrologist for Research at the U.S. Geological Survey in Reston, Virginia. She is a graduate of Vanderbilt University and holds a M.S. degree in chemistry from the University of Kentucky and Ph.D. degree in geochemistry from The George Washington University. Author or co-author of more than 50 publications on aqueous and organic geochemistry as a research geochemist with the USGS, she is also a member of the AGU, ACS, GS, NGWA, and the Geological Society of Washington. She was Darcy Lecturer for the Association of Ground Water Scientists and Engineers in 1993; the Ineson Lecturer for the Geological Society of London in 1994; and is a Professorial Lecturer at The George Washington University. As a member of the Hydrogeology Division, she served on the Meinzer Award Committee, 1985-1987 (Chair in 1987); Nominating Committee, 1990-1992 (Chair in 1992); Program Chair for the 1996 Annual Meeting in Denver; Second Vice-Chair of the Division in 1997; and currently serves as First Vice-Chair.

**Jean M. Bahr.** Born June 1, 1954, New York, NY. Education: B.A. 1976, Geology and Geophysics, Yale University; M.S. 1985 and Ph.D. 1987, Applied Earth Sciences (Hydrogeology), Stanford University. Member of GSA since 1976, elected Fellow in 1996. GSA service: Continuing Education Committee (1996-98), Committee on Committees (1997), Hydrogeology Division Meinzer Award Committee (1994-96). Employment: 1993-present Associate Professor, University of Wisconsin - Madison; 1987-1992 Assistant Professor, University of Wisconsin -Madison; 1980-1986 Research Assistant and Teaching Assistant, Stanford University; 1976-1980 Staff Geologist, Wahler Associates, Palo Alto, CA. Concurrent positions: 1995-present Chair Water Resources Management Graduate Program, University of Wisconsin-Madison; 1984-1986 Hydrologist USGS, Menlo Park, CA; 1982-1983 Hydrogeologist, GTC Ltd., Ottawa, Canada. Service: Associate Editor Water Resources Research (1996-present), Editorial Board Ground Water (1993-95), Books Editor Ground Water (1997-present), Editorial Board Geotimes (1995-present), Natl. Res. Council (NRC) Board on Radioactive Waste Management (1992-97), NRC Committee on Technical Bases for Yucca Mtn. Standards (1993-94), Vice-chair NRC Committee on Yucca Mountain Peer Review (1995), Ocean Drilling Program (ODP) Sedimentary and Geochemical Processes Panel (1992-94), Editorial Board ODP Leg 156 Scientific Results Volume (1995-97). Awards: Yale College Samuel Lewis Penfield Prize (1976), elected to Sigma Xi (1983), AGU Editors Citation for Excellence in Refereeing (1991). Publications: author or co-author of 26 refereed articles and 50 abstracts, contributor to 6 monographs, co-editor of one book. Research interests: Interactions between physical and biogeochemical processes in groundwater; effects of heterogeneity on solute transport; paleohydrogeology.

**John Van Brahana.** Born: Champaign, IL, 9/11/43 ; ed: B.A. '65, University of Illinois-Urbana; M.A. and Ph.D., University of Missouri, Columbia, '68 and '73; work: USGS, Research Hydrologist, '71 to present; University of Arkansas, Adjunct Professor, '90-present; Vanderbilt University, Adjunct Professor, '76-'90; also adjunct @ University of Tennessee-Nashville, and University of Southern Mississippi; also consulting and Illinois State Geological Survey. Professional Affiliations: GSA, AGU, IAH, NSS, NGWA, AWRA-Arkansas Chapter, Arkansas Ground Water Association. GSA Service: Hydrogeology Div. Annual Meeting Chair, '95, Joint Technical Program Committee, '94-'96, South Central GSA Management Board '97-present. Other Service: General Chair, IAH Congress XXVIII, Las Vegas '98, Geology Development Board, University of Missouri, vice-chair; Commission of Mineral and Thermal Waters, IAH, meeting chair '92; Awards/Honors: SGE Outstanding Teacher-U of Arkansas, '92 and '94, USGS, Superior Performance Award, '94; USGS Special Achievement Award, '88, '93, '96, GSA fellow, '94-present Research Interests: Physical Hydrogeology, Karst Hydrogeology, Field Hydrogeology Published: 54 abstracts, 2 book chapters, 36 USGS and refereed articles, 3 USGS Reports-Director Approved not yet published. Other: PBS-Anyplace Wild Series-Depths of Wonder, Low-Impact Caving in Arkansas, '97; USGS SE Region Agricultural Oversight Committee '93; USGS Toxic Hydrology Site-Selection Committee '94

**Stephen W. Wheatcraft.** Born in Fort Riley, Kansas, on August 4, 1950. Member since 1978. Education: University of Missouri at Kansas City, B.S., 1972; University of Hawaii, M.S. in 1975 and Ph.D. in 1979. Professional experience: Assistant/Associate/Full Research Professor, Water Resources Center, Desert Research Institute, University of Nevada System, 1978-1992 (with joint appointment in the Department of Geological Sciences, University of Nevada, Reno); Professor of Hydrogeology, University of Nevada, Reno, 1993-Present; Associate Director, Interdisciplinary Graduate Program in Hydrologic Sciences, University of Nevada, Reno, 1993-Present. Publications include more than 40 technical reports, book chapters and journal articles on hydrogeology and contaminant transport. Fellow of the GSA and member of AGU, AGWSE/NGWA and IAH. Service to GSA and the Hydrogeology Division includes being Chairman, Publications, Committee, 1986-88, Program Chairman in 1994, member, Distinguished Service Award Committee, 1996-present. Associate Editor, Water Resources Research, 1988-93, Associate Editor, GSA Bulletin, 1994-95, Associate Editor, Groundwater, 1996-Present. Peer reviewer for the following journals: Water Resources Research, Advances in Water Resources, Transport in Porous Media, Journal of Hydrology, Journal of Hydraulic Engineering, Ground Water, Geological Society of America Bulletin, Geophysical Research Letters. Peer reviewer for the following granting agencies: NSF, DOE Subsurface Science Program, EPA Exploratory Research Program, and the Natural Sciences and Engineering Research Council of Canada. 1990/91 Henry Darcy Distinguished Lecturer (AGWSE). Cited twice by the University of Nevada System Board of Regents for outstanding achievement as a faculty member, in 1990. Professional interests include developing methods and theories for improved characterization of geologic heterogeneity for flow and transport modeling; density-coupled flow and transport processes, especially sea water intrusion; unsaturated fracture flow; use of geophysics in groundwater investigations; field and laboratory verification of hydrogeologic processes.

### Ballot for Election of Officers for 1999 GSA Hydrogeology Division

Chair

Mary Jo Baedecker (Write in \_\_\_\_\_) 

First Vice Chair

Steven Wheatcraft (Write in \_\_\_\_\_) 

Second Vice Chair

Jean Bahr (Write in \_\_\_\_\_) 

Secretary -Treasurer

John Van Brahana (Write in \_\_\_\_\_) **Instructions:**

1. Vote for no more than one officer for each of the positions.
2. Sign, address, and date the opposite side of this form.
3. Fold, staple or tape, and First Class stamp the form.
4. Form must be received at GSA headquarters no later than July 31, 1998.

For a legal vote, this sheet must bear the signature of the voter.

From  
Signature  
Address

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

Date

BALLOT

Hydrogeology Division  
Geological Society of America  
P.O. Box 9140  
Boulder, CO 80301-9140

*Fold here, and staple or tape*

Place  
stamp  
here

*Fold here, and staple or tape*

Conventional testing of permeability is generally done at too large a scale and at too coarse resolution to allow for truly useful prediction of contaminant transport in the preponderance of cases. Our successes and failures in prediction of contaminant transport indicate that improvements in prediction will depend heavily on improving methods of imaging the permeability of the subsurface rather than improving our mathematical models of contaminant transport.

### Geysers: Why Are They So Rare and What Might They Indicate About Deformation in Areas of Active Tectonics?

Geysers are admired for both their beauty and rarity. Historical data, some of which are undoubtedly of questionable quality, indicate that variations in geyser and hydrothermal system behavior are partly controlled by tectonic deformation and may even provide clues to pre-seismic behavior near plate boundaries. We present a model of geyser mechanics that serves to explain why geysers are rare relative to other hydrothermal features such as fumaroles and warm springs. We also present the first comprehensive effort to monitor geyser activity in the Old Faithful region of Yellowstone National Park over a lengthy (one year) time period. The data indicate that geyser behavior can be sensitive to small elastic deformation. Thus, historical accounts of unusual geyser activity associated with regional seismic events may reflect local elastic deformation induced by regional tectonism and may not be as farfetched as generally thought.

### **New Committee: The Young Professional and the Hydrogeology Division**

Chair of the Hydrogeology Division Darryll Pederson has designated a new ad hoc committee "The Young Professional" for the Division. Robert Ritzi is Chair of the committee, and which also includes Ken Bradbury, Matt Davis, Joe Donovan, and Doug Gouzie.

In calling for formation of this group, Pederson said: *"The Hydrogeology Division has devoted considerable resources and efforts to hydrogeology students in the form of grants, receptions, etc. The Division also has recognized major contributions in the form of the DSA, Meinzer and other awards. Perhaps there are other opportunities that the Division should seize. In particular I am interested in what ways the Division might better serve the young professional working in education, government, consulting, etc. Are there ways that the Division could assist in networking? Are there better programs and/or activities to offer at national meetings? Are there special recognitions? Are there features needed on our Web site? These are but some of the questions that should be asked. I am leaving this open so all avenues might be considered. "*

If you have an opinion on how the GSA Hydrogeology Division can better serve young professionals, please send your responses/ideas/suggestions/opinions to Bob Ritzi, Committee Chair (rritzi@discover.wright.edu)

### **IAH Meeting Announcement Las Vegas**

The International Association of Hydrogeologists will be sponsoring the meeting "Gambling with groundwater" from September 27 through October 2, 1998, Las Vegas, Nevada. This meeting focuses on the physical, chemical, and biological aspects of aquifer-stream relations. A complete conference homepage is available at: <http://geology.usgs.gov/iah/>.

### **SEPM Meeting Announcement Wisconsin**

The SEPM (Society for Sedimentary Geology) will be sponsoring the research conference "Fluid flow in carbonates: Interdisciplinary approaches" from September 27 through September 20-24, 1998, at Door County, Wisconsin. Contact Maureen Muldoon at muldoon@facstaff.wisc.edu for further information.

### **Division Loses Members**

The Division lost Peter Meyboom in November of 1997. Also, John Mann, a long time member of GSA and the Hydrogeology Division, passed away in March 1998 at the age of 76. He and his wife Carol have been major benefactors of GSA, through their support of the John Mann Institute and the John F. Mann, Jr. charitable remainder unitrust.

### **Note from the New Editor**

As I step in to assume editorship of the newsletter, I would like to introduce myself, and offer a few comments. Foremost, I would like to thank Alan Dutton both for his 7 years of service as editor, and for his exceptional help in transferring the editorship during the last 6 months. The transition has been fairly smooth, thanks to him, and to support from Darryll Pederson and GSA Headquarters staff. The upcoming year will be one of many changes as we move to electronic publication (at direction of the Division Management Board). Throughout this period my primary concern is maintaining good service to Division members, and I look forward to any suggestions or comments that you may wish to offer.

Ira D. Sasowsky, Editor  
*The Hydrogeologist*



## Hydrogeology Division Contacts

### 1998 Management Board

**Chair:** Darryll Pederson [pederson@unlinfo.unl.edu]  
**First Vice-Chair:** Mary Jo Baedeker [mjbaedec@usgs.gov]  
**Second Vice-Chair:** Steve Wheatcraft [steve@hydro.unr.edu]  
**Secretary-Treasurer:** Joe Yelderman [joe\_yelderman@baylor.edu]  
**Past Chair:** Warren Wood [wwwood@usgs.gov]

### Section Representatives

**Cordilleran:** Kevin Johannesson (khj@nevada.edu)  
**North Central:** Bill Simpkins (bsimp@pop-2.iastate.edu)  
**Northeastern:** Grover Emrich (emrichc@aol.com)  
**Rocky Mountain:** Bill Woessner (gl\_www@selway.umt.edu)  
**South Central:** Joe Yelderman (joe\_yelderman@baylor.edu)  
**Southeastern:** David Evans (dave\_evans@ncsu.edu)

### Standing Committees

#### Technical Program Committee:

Ralph Davis(Chair; ralphd@comp.uark.edu), Bill Simpkins

#### Nominating Committee:

Lenny Konikow (Chair; lkonikow@usgs.gov), Don Siegel, Jack Hess

#### Meinzer Award Committee:

Steven Gorelick (Chair; gorelick@pangea.stanford.edu), William Berry Lyons, Ward E. Sanford, Tom Corbett, Lenny Konikow

#### Birdsall-Dreiss Lecturer Committee:

Kirk Nordstrom (Chair; dkn@usgs.gov), Mark Person (Coordinator), Jeffery Hanor (Lecturer)

#### Distinguished Service Award Committee:

Steve Wheatcraft(Chair; steve@hydro.unr.edu), Grover Emrich, John Harsh

### Ad Hoc Committees

#### Historical Committee:

Steve Wheatcraft (Chair; steve@hydro.unr.edu), Paul Seaber, Bill Back

#### Past Chair's Long-range Planning Committee:

Jack Hess (Chair; jack@snsd.dri.edu)

#### Penrose Conference Committee:

Les Smith (Chair; leslie@geology.ubc.ca), Don Siegel

#### Young Professional Committee:

Robert Ritz (Chair; rritzi@wright.edu), Ken Bradbury, Matt Davis, Joe Donovan, Doug Gouzie

### Representatives to Other Societies

#### American Geophysical Union (AGU) Hydrology Division:

Mary Anderson (andy@geology.wisc.edu)

#### Assoc. of Ground-Water Scientists and Engineers (NGWA):

Warren Wood (wwwood@usgs.gov)

#### American Institute of Hydrology (AIH):

Joe Rosenshein

#### GSA Engineering Geology:

Tom Holzer (tholzer@usgs.gov)

#### GSA History of Geology:

Paul Seaber (seaber@dri.edu)

#### GSA Quaternary Geology and Geomorphology:

Karen Prestegard (kp3b@umail.umd.edu)

#### GSA Council:

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