

# The Hydrogeologist

Newsletter of the  
GSA Hydrogeology Division

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## GSA 2002 - More Groundwater Abstracts Than You Can Shake A (Divining) Stick At!

Story by Carol Wicks

**W**Ow!!!! I think that sums up the Technical Program for GSA 2002 in Denver. There were a record number of abstracts submitted to the meeting, not just to the Hydrogeology Division, but to the GSA meeting as a whole. There were twenty-four Topical Sessions sponsored or co-sponsored by the Hydrogeology Division. Twenty-two of those Topical Sessions received enough abstracts to be offered at Denver – that translates to many, many abstracts. Several sessions, which were slated for one time slot either morning or afternoon, were expanded into two sessions. A couple of shorter sessions are sharing a time slot.

There are sessions for everybody from Ecohydrology to the Hydrogeology of Developing Countries. There are sessions related to mining including a session on the Effects of Abandoned Mines on the Environment that ties in well with one of the Field trips and a session on Groundwater and Hardrock Mining. There are sessions that are related to specific aquifers



Denver Convention Center. Photo by Bob Ashe, Denver Metro Convention & Visitors Bureau. Used with permission.

and regions, such as the Platte River session and the Denver Basin session. There are sessions on modeling including Analytical Element Modeling and Advances

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**EDITOR'S NOTE:** A color version of this newsletter is available on the web at [<http://gsahydrodiv.unl.edu>]



**Bill Simpkins**  
**Chair**  
**GSA Hydrogeology Div**

## "Whazza?"

The title of this column, Whazza?, comes from the popular series of beverage commercials where various characters pose this question endlessly to each other on the phone. The phrase means more than just "hi," and implies interest in the well-being of the person being asked. The Germans have a similar expression, "Wie geht's", which translates literally to "How goes it?" Those of us that are old enough will

remember an earlier version, "What's up, Doc?" made famous by a carrot-eating rabbit, Mr. Bugs Bunny.

As we approach the Annual Meeting in Denver later this month, it is perhaps appropriate to ask "Whazza?" with respect to the Hydrogeology Division. The news is very good and definitely "up." Our former Division chair, Don Siegel, was elected to GSA Council and will succeed Mary Anderson in representing our interests to GSA. Our Birdsall-Dreiss lecturer, Graham Fogg, has already visited about 40 locations so far. Our technical program co-chairs, Carol Wicks and Alan Fryar, successfully scheduled 329 abstracts and 21 topical sessions to create a very exciting, and large, hydrogeology program for the Annual Meeting. Three sessions are full-day sessions and there are six topical poster sessions. General hydrogeology sessions consist of only two oral sessions and one poster session, which suggests that we had session topics that participants could fit into easily. The abstract count for the entire meeting is 3,363 abstracts, so we contributed nearly 10 percent of the total. If these are not enough, then consider that we have a student raffle at the Annual Meeting that is the absolute envy of every Division in GSA. I know, because they have

told me so. These are signs of good health.

The other good health news is that our membership is also back up to 1260 members, nearly where it was in 2000 prior to the "two year dues debacle." You may remember that, at one time, GSA members could opt for a two-year dues payment for membership in GSA. Many in our Division went for it, but then GSA forgot that Division dues were still gathered on an annual basis and we lost a bundle in dues. Well, we're back in terms of numbers (but not dollars). We are a very close third (within a few hundred members) to Quaternary Geology and Geomorphology Division and the Structure and Tectonics Division.

What of our future? In the October 2000 newsletter, Chair Steve Wheatcraft reviewed our progress as a Division during the 1990s where our growth rate in submitted abstracts was about 521 percent. I have updated that graph in the inset on the next page. In 1990, we comprised only about 4 percent of the abstracts. At the 2002 Reno meeting, we submitted 425 abstracts and comprised 12 percent of the total. Steve predicted that the 2001 meeting would have 600 abstracts, which he estimated would

## The Hydrogeologist

The Hydrogeologist is a publication of the Hydrogeology Division of the Geological Society of America. It is issued twice a year in April and October, 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: <http://gsahydrodiv.unl.edu>. 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 as Word or WordPerfect document is most expedient.

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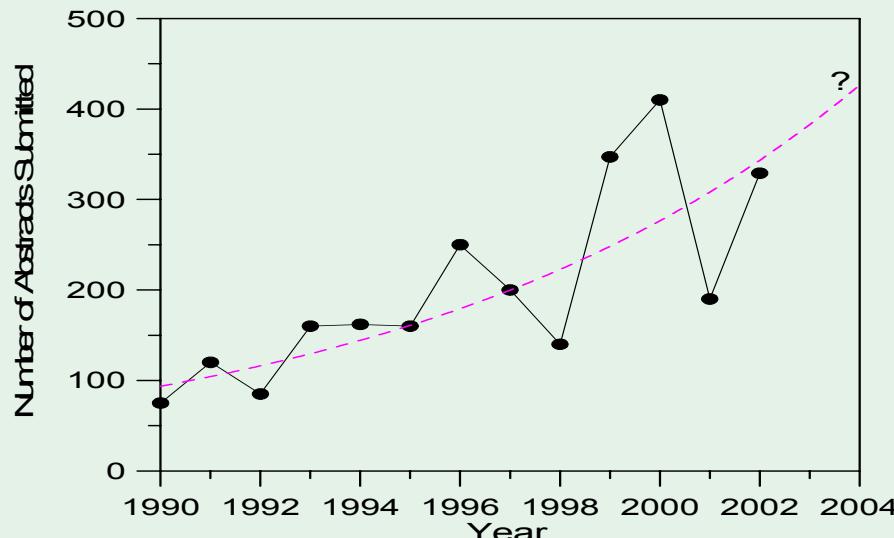
**Deadline, Spring Issue**

**March 1, 2003**

contribute 15 percent of the total abstracts. However, because of cost or whatever reason, abstracts actually dipped to 190 at the 2001 meeting in

abstracts in Denver (and Reno) than meetings in the eastern North America, I fit a new exponential function to the data (see inset).

between 300 and 400 abstracts for sites such as Denver? I bring this up for two reasons. First, many of you have expressed concern that the number of concurrent sessions in hydrogeology has risen to the point that attendees have to make very difficult choices among sessions. So, we may not want to have more than 21 sessions, for example. Fair enough. In case you are not aware, we have one of the more aggressive and forward-looking Divisions in terms of planning for Annual Meetings. For example, our Technical Program Chairs are chosen and we solicit session topics way in advance of any other GSA Division. In 1999, as Technical Program Chair for the meeting, I pushed the airline/motel model of cultivating more sessions than we probably could run (i.e., overbooking). I was uncertain whether Topical Session chairs would follow through with their proposed sessions. To my surprise, most followed through and that resulted in a huge jump in abstracts over the previous year. Carol and



Boston, rivaling the most recent low from the Toronto meeting in 1998. The good news is that we have rebounded this year to levels very similar to those in 1999. Because it is clear that we generate more

Based on the new Simpkins growth model, we should expect about 427 abstracts when we return to Denver in 2004.

Can we continue to grow exponentially or have we topped out



**Have you visited the GSA Hydrogeology Division's web site recently? Check it out at**

**<http://gsahydrodiv.unl.edu>**

Stay tuned for future site updates over the course of the next year as the web site continues to get a new look. If you have difficulty accessing the Division website directly, please go to the GSA web page at [www.geosociety.org](http://www.geosociety.org), click on the Sections & Divisions, then on Divisions, then on Hydrogeology Division. If you have suggestions, or postings for, or comments about the web site, please send them to Ed Harvey at: [feharvey1@unl.edu](mailto:feharvey1@unl.edu) or 113 Nebraska Hall, University of Nebraska, Lincoln, NE 68588-0517. See you online!

Alan used a similar approach this year and we're back up to the recent Denver abstract numbers. Second, and probably more importantly, hydrogeology is running GSA out of space at the Convention Centers. This year, for the first time, we had to schedule sessions during the Hydrogeology Luncheon because some rooms were being renovated and we could not get enough rooms that we needed on other days and avoid Tuesday. I intend to bring up this problem with GSA, because we still want to retain growth but cannot get into a situation where we sabotage our own luncheon. Having a healthy Division with lots of participation by members should be rewarded, not hindered, by GSA.

So, in response to "Whazza?" for the Division, I would respond very positively. We have an active, vibrant membership who is truly interested in furthering the profession of hydrogeology, providing avenues for service, and fostering the interest of hydrogeology students. If you want to experience this first hand, please come to Denver and see what the Management Board and the Technical Program Committee have put together for you this year. Finally, if you have comments about what you have read in this column and/or are interested in serving the Division in some capacity, please contact me or incoming Chair Bob Ritzi. We hope to see you in Denver and start thinking ahead about what session you might propose for next year's meeting in Seattle.



## Geoscience Policy Case Studies Featured at GSA Annual Meeting Sessions

Story by David Applegate

Geoscientists have a great deal to contribute to the development of effective and sensible public policy. The challenge is getting policymakers to recognize the value of the contribution, not just to improve decisionmaking but also to ensure the future vitality of our science. For at the same time that policy decisions are increasingly dependent on complex technical considerations, policymakers are increasing their demand on scientists to demonstrate the relevance of their work through tangible results and measurable outcomes. This confluence of needs and demands is the subject of a pair of sessions at the GSA Annual Meeting on Sunday, October 27th. Both sessions provide case studies from the local, state, and national levels highlighting examples of the perils but also the potential for progress when geoscience and policy meet.

Both sessions feature talks that should be of particular interest to hydrogeologists, who often find themselves on the frontline of such interactions. The morning session—T92. Effective Communication and/

Please see **Policy** on page 17



**"Hey You! Over Here!"...** Have a new research idea to try out on a captive audience? Want to get everyone working on your particular research topic in one room and go "nose to nose" with them? Like to visit magnificent geologic locales? If your answer is yes to all three questions, then the Division needs your ideas for a Penrose Conference. We have not sponsored one since 1994. Contact your Division officers about their experiences with past Penrose Conferences.

The Penrose Conferences, named in honor of R. A. F. Penrose, Jr., a benefactor of the Geological Society of America, were established in 1969 by the Society as a further step in its service to the science of geology. The conferences provide the opportunity for exchange of current information and exciting ideas pertaining to the science of geology and related fields. They are intended to stimulate and enhance individual and collaborative research and to accelerate the advance of the science by the interactions and development of new ideas.

For Guidelines Contact GSA Headquarters via e-mail at: [ecollis@geosociety.org](mailto:ecollis@geosociety.org)  
or by phone or fax at: (303) 357-1034 • fax 303-357-1070

# Hydrogeology Division Sponsored Technical Program Schedule for the 2002 Denver Meeting

Session Title	Day	Time	Room
Hydrogeology (Posters) I	SU	8:00 AM - 12:00 PM	Exhibit Hall
T52. Denver Basin Bedrock Aquifers-Past, Present, and Future <i>John Moore &amp; Peter E. Barkmann, Presiding</i>	SU	8:00 AM - 12:00 PM	Ballroom 4
T63. The Terrestrial-Aqueous Interface: Multidisciplinary Research and Opportunities <i>F. Edwin Harvey &amp; Donald I Siegel, Presiding</i>	SU	8:00 AM - 12:00 PM	A205
T68. Yucca Mountain Update: Recent Advances from Scientific Investigations of the Unsaturated Zone I <i>Robert Levich &amp; Ronald Linden, Presiding</i>	SU	8:00 AM - 12:00 PM	A207
T54. Flow and Transport in Fractured Aquifers-From Field Characterization to Model Construction <i>Todd Halihan &amp; David Benson, Presiding</i>	SU	1:00 PM - 3:45 PM	A205
T58. Hydrogeology and Water Resources of the High Plains Aquifer: Issues for Public Policy Over the Next 50 Years <i>Alan R. Dutton &amp; Richard R. Luckey, Presiding</i>	SU	1:00 PM - 3:45 PM	A207
T101. Interdisciplinary Approaches to Understanding Soil and Vadose Zone Hydrology of Saprolite: Integration of Hydrogeology, Sedimentology, Geomorphology, Pedology and Biology <i>Steven G. Driese &amp; Larry McKay, Presiding</i>	SU	1:00 PM - 3:45 PM	C209
T62. The Role of Analytic Elements in Groundwater Modeling <i>Hendrik M. Haitjema &amp; Randy J. Hunt, Presiding</i>	SU	1:00 PM - 3:45 PM	A201
T64. The What, When, Why, and How Much of Chemical (Nutrient) Supplements for Bioremediation <i>J.F. Devlin &amp; J.R. Rogers, Presiding</i>	SU	1:00 PM - 3:45 PM	A209
K1. Earth Sciences Challenges in the National Problem of High-Level Radioactive Waste Disposal <i>John S. Stuckless &amp; William W. Dudley, Presiding</i>	MO	8:00 AM - 12:00 PM	Ballroom 2&3
T48. Application of Biological and Hydrochemical Tracers in Groundwater Quality Investigations <i>Brian G. Katz &amp; Ralph Davis, Presiding</i>	MO	8:00 AM - 12:00 PM	A201

Session Title	Day	Time	Room
T56. Groundwater Depletion and Overexploitation I: A Global Problem <i>Leonard F. Konikow &amp; Lois K. Ongley, Presiding</i>	MO	8:00 AM - 12:00 PM	A209
T60. Rivers in Karst: Processes and Applications <i>Ira D. Sasowsky &amp; Gregory S. Springer, Presiding</i>	MO	8:00 AM - 12:00 PM	A205
T63. The Terrestrial-Aqueous Interface (Posters): Multidisciplinary Research and Opportunities	MO	8:00 AM - 12:00 PM	Exhibit Hall
T47. Advances in Karst Modeling (Posters)	MO	1:30 PM - 5:30 PM	Exhibit Hall
T55. Geophysical Evaluation of Aquifer Properties <i>Jo Leslie Eimers, Gary S. Weissmann, Gregory S. Baker, Frederick Stumm &amp; Grederick L. Paillet, Presiding</i>	MO	1:30 PM - 5:30 PM	A209
T56. Groundwater Depletion and Overexploitation II: A Global Problem <i>Leonard F. Konikow &amp; Lois K. Ongley, Presiding</i>	MO	1:30 PM - 5:30 PM	A201
T93. Hydrogeology in Developing Countries: Opportunities and Challenges (Posters)	MO	1:30 PM - 5:30 PM	Exhibit Hall
T60. Rivers in Karst: Processes and Applications (Posters)	MO	1:30 PM - 5:30 PM	Exhibit Hall
T61. The Platte River Basin of Colorado, Nebraska, and Wyoming: Where Geology, Hydrology, Endangered Species, People, and Politics Attempt to Coexist <i>Richard R. Luckey, Gary L. Lewis &amp; Duane A. Woodward, Presiding</i>	MO	1:30 PM - 5:30 PM	A102/104/-106
T68. Yucca Mountain Update: Recent Advances from Scientific Investigations of the Unsaturated Zone II <i>Robert Levich &amp; Ronald Linden, Presiding</i>	MO	1:30 PM - 5:30 PM	A207
T65. Characterization, Attenuation, and Remediation of Subsurface Contaminants in Heterogeneous Chemical or Physical Settings I <i>John E. McCray &amp; Thomas B. Boving, Presiding</i>	TU	8:00 AM - 12:00 PM	A201
T68. Yucca Mountain Update: Recent Advances from Scientific Investigations of the Unsaturated Zone (Posters)	TU	8:00 AM - 12:00 PM	Exhibit Hall

Session Title	Day	Time	Room
Hydrogeology I: Physical Hydrogeology <i>Hongbin Zhan &amp; Henry W. Rauch, Presiding</i>	TU	1:30 PM - 5:30 PM	A201
T57. Hydrogeologic Framework and Basin Hydrology of the Desert Southwestern United States <i>Donald S. Sweetkind &amp; Keith A. Howard, Presiding</i>	TU	1:30 PM - 5:30 PM	A101/103
Hydrogeology II: Chemical Hydrogeology <i>Andrew S. Reeve &amp; Kevin H. Johannesson, Presiding</i>	WE	8:00 AM - 12:00 PM	A205
Hydrogeology (Posters) II	WE	1:30 PM - 5:30 PM	Exhibit Hall
T65. Characterization, Attenuation, and Remediation of Subsurface Contaminants in Heterogeneous Chemical or Physical Settings II <i>John E. McCray, Thomas B. Boving &amp; Geoff Thyne, Presiding</i>	WE	1:30 PM - 5:30 PM	C109
T51. Delineation of Contributing Areas for Wells in Challenging Hydrogeologic Settings: Methods, Uncertainty, and Verification <i>Kenneth R. Bradbury &amp; Todd W. Rayne, Presiding</i>	WE	1:30 PM - 5:30 PM	A201
T59. Mass and Energy Transport in Groundwater: In Memory of Patrick Domenico <i>Alan E. Fryar &amp; Frank W. Schwartz, Presiding</i>	WE	1:30 PM - 5:30 PM	A205
T67. Watershed Processes Within Tropical Montane Catchments <i>Russell S. Harmon &amp; Ellen Wohl, Presiding</i>	WE	1:30 PM - 5:30 PM	A209

## Hydrogeology Division Sponsored Short Courses

Short Courses	Day	Time	Room
4. Estimating Rates of Groundwater Recharge [504] <i>Faculty: Richard W. Healy &amp; Bridget R. Scanlon</i>	SA	8:00 AM - 5:00 PM	Convention Center
6. Practical Methods in Applied Contaminant Geochemistry: From Characterization to Remediation [506] <i>Faculty: Donald I. Siegel</i>	SA	8:00 AM - 5:00 PM	Convention Center

**Reminder:** The 2002 Hydrogeology Division Management Board Meetings will be held at 7:00 am on Sunday October 27, & Wednesday October 30, during the Denver GSA Annual Meeting. Attend one of the meetings and discover the exciting things happening within the Division.

# Hydrogeology Division Sponsored Field Trips



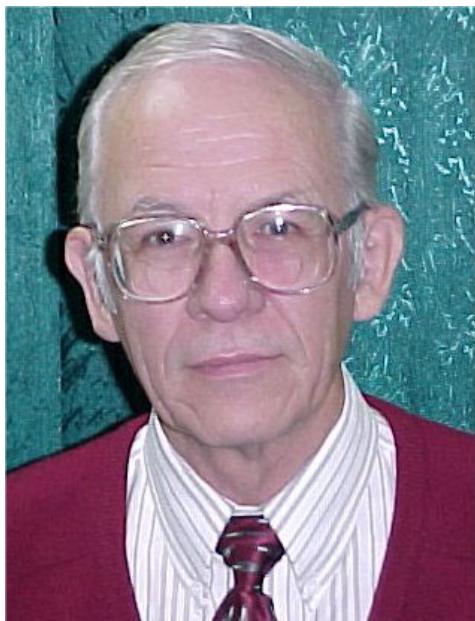
The Summitville Mine site taken circa 1998. Photo by Kirk Nordstrom.

Field Trips	Day
3. Cleanup at Summitville-The Superfund Mine Site That Changed Colorado [403]. <i>Guides: D. Kirk Nordstrom, Geoff Plumlee &amp; Harry Posey</i>	TH-SA, Oct 24-26
10. Borehole Image Logging in Geology and Hydrogeology [410]. <i>Guides: John H. Williams, Carole Johnson, Roger Morin, Fred Paillet and John Stowle</i>	SA, Oct 26
23. Field Trip to Glenwood Caverns-Fairy Cave, Glenwood Springs, Colorado: An Introduction to CO <sub>2</sub> and H <sub>2</sub> S Speleogenesis [423]. <i>Guides: Fred G. Luiszer &amp; Harvey DuChene</i>	TH, Oct 21

**Reminder:** The 2002 Hydrogeology Division Luncheon will be held on Tuesday October 27, during the Denver GSA Annual Meeting. Get your tickets now and join us for a great meal and stimulating conversation, catch up on what's happening within GSA, the Division and the membership, and help us congratulate our 2002 Division award winners.

# Winter To Recieve 2002 O.E. Meinzer Award

The 2002 O.E. Meinzer Award will be presented to Dr. Thomas C. Winter at the Hydrogeology luncheon on Tuesday, October 29 at the GSA



Annual Meeting. Dr. Winter is a Senior Research Hydrologist with the U.S. Geological Survey in Denver, Colorado. He earned BA and MS degrees in Geology and a PhD in Hydrogeology at the University of Minnesota. From 1961 to 1972 he conducted geological and water-resource studies in Minnesota, and was in charge of U.S.G.S. groundwater studies there from 1968 to 1972. Since 1973 he has conducted research on the hydrology of lakes and wetlands, with emphasis on their interaction with ground water and evaporation. In the late 1970s he helped establish, and has since been a principal investigator at, four long-term field research sites; the Mirror Lake watershed in New Hampshire, the Shingobee River

headwaters area in Minnesota, the Cottonwood Lake wetland complex in North Dakota, and the Island Lake area of the Crescent Lake National Wildlife Refuge in Nebraska. He also has been involved with lake and wetland studies in Washington, California, Colorado, Wisconsin, Massachusetts, and Florida. He has received the Distinguished Service Award from the U.S. Department of the Interior, the M. King Hubbert Award from the National Ground Water Association, and the W.R. Boggess Award from the American Water Resources Association, and the Lifetime Achievement Award from the Society of Wetland Scientists.

The Meinzer award was established in 1965 to recognize significant contributions that an individual has made in hydrogeology or some closely related field during the past five years. The award is given annually by the Division to the author or authors of a published paper or body of papers of distinction that have (1) advanced the science of hydrogeology or a closely related field, and (2) was published during the five calendar years prior to the year of its selection. In addition to Dr. Winter's outstanding contributions to hydrogeology during the past 30 years as noted above, the 2002 O.E. Meinzer Committee, chaired by Mary Anderson, recommended the award be based on the four of his most recent papers (see inset in the next column).

## Meinzer Award Papers

- Winter, T.C., Harvey, J.C., Franke, O.L., and Alley, W.M., 1998. **Ground water and surface water, a single resource:** U.S. Geological Survey Circular 1139, 79p.
- Winter, T.C., 1999. **Relation of streams, lakes, and wetlands to groundwater flow systems.** *Hydrogeology Journal* 7 (1): 28-45.
- Winter, T.C., 2000. **The vulnerability of wetlands to climate change: a hydrologic landscape perspective:** *Journal of the American Water Resources Association* 36 (2): 305-311.
- Winter, T.C., 2001. **The concept of hydrologic landscapes.** *Journal of the American Water Resources Association* 37 (2): 335-349.

Congratulations Tom from your Hydrogeology Division friends and colleagues!



# Baedecker Named Recipient of 2002 Distinguished Service Award



The 2002 Hydrogeology Division Distinguished Service Award will be presented to Mary Jo Baedecker on Tuesday, October 29 at the GSA Annual Meeting in Denver. The award is presented in recognition of Dr. Baedecker's dedicated service to The Geological Society of America, Hydrogeology Division, and the

hydrogeologic community. Dr. Baedecker joined GSA in 1977 and became a fellow in 1995. As a member of GSA and the Hydrogeology Division, she served on the Meinzer Award Committee, 1985-1987, serving as Chair in 1987, and on the Nominating Committee from 1990-1992. She was Program Chair for the Division for the 1996 Annual Meeting in Denver and served on the Management Board from 1997-2000. She served as Chair of the Hydrogeology Division in 1999. Through the years, she has made numerous presentations at GSA meetings and co-taught a GSA short course on organic geochemistry. In 1999, she was a member of the GSA Division Chairs' Group to discuss strategic planning and communication between GSA and the Divisions.

Mary Jo has served the hydrogeologic community in a numerous ways. In 1993, Mary Jo was the Darcy Lecturer for the Association for Ground Water Scientists and Engineers and in 1994, she was the Ineson Lecturer for the Geological Society of London. She was a member of the National Research Council that authored the 1994 report "Alternatives for Ground Water Cleanup," and she currently serves on the NRC Committee "Source Removal of Contaminants in the Subsurface." She has served on several national research committees as well as those of professional societies. She has mentored many students and served on numerous dissertation committees at several universities.

Mary Jo received her B.A. in Chemistry from Vanderbilt University, M.S. in Organic Chemistry from the University of Kentucky, and Ph.D. in Geochemistry

from The George Washington University with an emphasis in organic geochemistry and hydrogeology. She began her professional career in the earth sciences at the University of California, Los Angeles, where she was a member of a team evaluating recent diagenesis and preservation of organic material in near-shore environments. She joined the U.S. Geological Survey in 1974 in Reston, Virginia, where she remains today. Her early work at the USGS continued in the area of organic geochemistry of recent sediments. As ground-water quality issues became a primary concern for the nation in the 1970s, she expanded her research to understanding organic-inorganic processes that occur in aquifers impacted by the presence of landfill wastes,

**Mary Jo has given over 25 years of service to GSA and the International Hydrogeological Community.**

petroleum products, and other contaminants. Her scientific contributions have been at the interfaces of disciplines in order to understand how organic materials interact and are transported within aquifers. Her work has focused on field investigations to collect long-term data that is used to understand processes and establish trends in ground-water processes. Her research team at the U.S. Geological Survey provided some of the seminal evidence for the natural attenuation of the soluble components of oil. She has authored or co-authored over 60 papers related to organic geochemistry and hydrogeology.

In the mid 1990s, she undertook the overall responsibility at the USGS for the National Research Program in Hydrologic Sciences. Today she is the Chief Scientist for Hydrology at the USGS. In her role as a research manager she serves on committees that address water resources research issues among Federal Agencies. She received the Department of Interior Meritorious Service Award in 1991 and the Distinguished Service

Please see **Baedecker** on page 14

# **"Please come to Denver with the Snow Fall..."**

**Story by Edwin Harvey**



Beautiful Downtown Denver. Photo by Ron Ruhoff, Denver Metro Convention and Visitors Bureau.

This summer, the return drive of my southwestern vacation took me through Denver, Colorado, and as I passed through the city, I could not help but think about the upcoming annual meeting of the Geological Society of America (GSA) to be held later this month at the Colorado Convention Center. As I cruised along, I reflected on GSA meetings past...what they had meant to me both professionally and personally...and I found myself longing for October to arrive more quickly bringing with it the chance to once again attend what has turned out to be my favorite professional meeting. As this issue of the Hydrogeologist is dedicated largely to the fall meeting, with your indulgence, I would like to share some of my thoughts of, and experiences from previous meetings with you and in the absence of any prompting, or gratuity from GSA make my personal *sales pitch* for the upcoming meeting to the Division's membership.

I attended my first annual meeting in the fall of 1989. The meeting was held in St. Louis, Missouri, and I still remember crawling into a university van with my advisor and a collection of assorted graduate students at around 4:00 am to begin our thirteen hour drive across country...actually across two countries, to be more precise. That's where it all began for me. Since then, I have attended numerous meetings and conferences, sponsored by a variety of professional societies, and while all have been both enjoyable and stimulating, no professional gathering means more to me than the annual meetings of the GSA. There is just something about these meetings - something both exciting and encouraging. One can't help but feel a real sense of family, and belonging with this group - a feeling that I experience at no other professional meeting.

But I must admit, it has not always felt this way.

My first few meetings were terrifying as an inexperienced graduate student, and even more so as a beginning faculty member! I didn't know many people, and I was overwhelmed at being in the presence of so many of the *superstar* scientists that I had come to revere and idolize during my studies. I remember feeling inadequate as a hydrogeologist, and certain that I would never fit into this seemingly tightknit group. In time however, thanks to perseverance, and of course numerous introductions by my advisors and an ever increasing number of colleagues and friends, this would change. Today, the GSA Annual Meeting is for me a professional shot in the arm - nothing fires me up more! I still have my professional heroes, and I still get nervous in their presence, but now I look forward to the meeting as a chance to refresh my spirit and to catch up on all the latest developments in hydrogeology, to listen and learn from the stories of more senior, respected colleagues and to just absorb the wonderful experience that is what has come to be known simply as *GSA*.

As a student I looked upon GSA as a chance to learn as much as possible about my chosen discipline. It was a time to absorb all that was offered at the various technical sessions, and I attended as many as I could, taking notes and trying to match the faces to the names of presenters whose papers and textbooks I had read, studied and memorized. Today, as a junior faculty member, GSA still plays this vital role in my continuing disciplinary education, but in recent years I have found that GSA offers me more than just the chance to hone my skills and bone up on the latest hydrogeological

**Please see Denver on page 15**

# Seattle Meeting Plans Already Underway

Story by Alan Fryar



Seattle, site of the 2003 GSA Annual Meeting. Here Seattle's famous Space Needle towers against the backdrop of Mt. Rainier. Photo courtesy of Seattle's Convention and Visitors Bureau .

Plans are already underway for next year's Geological Society of America Annual Meeting, "Seattle 2003: Geoscience Horizons," which will take place November 2–5. Jim Hendry (University of Saskatchewan) and I will be coordinating the Hydrogeology Division program, which should be both regionally relevant and of broad interest. Tentative field trips include:

- Geology, hydrology, and history of the U.S. Department of Energy's Hanford Site (Roy Gephart, Pacific Northwest National Laboratory)
- Geology, hydrology, and geothermal resources in the Clackamas, North Santiam, and McKenzie River drainages, Cascade Range, Oregon (Steve Ingebritsen, USGS)
- Island and coastal hydrogeology of Hawaii (Steve Gingerich, USGS; Don Thomas, University of Hawaii-Hilo; Steve Wheatcraft, University of Nevada-Reno).

T.N. Narasimhan (University of California-Berkeley) and I are proposing a Pardee symposium recognizing the accomplishments of M.K. Hubbert on the centennial of his birth. Three GSA divisions (Hydrogeology, Geophysics, and Sedimentary Geology), the National Ground Water Association, and the International Association of Hydrogeologists have agreed to cosponsor this symposium, and a complementary topical session is also planned.

## Suggested topical sessions include:

- Stream and riparian zone restoration
- Ecology, hydrology, and cultural use of springs
- Hydraulic, microbiological, and geochemical controls on arsenic in ground water
- Agricultural non-point sources of pollution
- Hydrogeology of glacial aquifers
- Geologic inspiration in the creation of modern folk music

Chen Zhu (University of Pittsburgh) has proposed to offer a short course on geochemical modeling. We are seeking additional ideas and possible organizers for short courses and topical sessions. For example, are you interested in regional or high-profile topics such as emerging contaminants (e.g., pharmaceuticals), the impact of drought or climate change on water resources, the impact of forest management on water resources, trans-boundary issues in water resources, and ground-water flow in tectonically active areas? The deadline for submitting short course proposals is December 2; for more information, contact Edna Collis (303-357-1034; [ecollis@geosociety.org](mailto:ecollis@geosociety.org)). Topical session proposal forms will be available at [www.geosociety.org](http://www.geosociety.org) around November 1 (see GSA Today or contact me at [afryar1@uky.edu](mailto:afryar1@uky.edu) for details). Proposals must be submitted electronically and are due by midnight, Mountain Standard Time, January 16.



# **2003 Georgia Water Resources Conference**

**Submitted by John S. Clarke**

The eighth biennial conference will be held on April 23-24, 2003, at the University of Georgia. This is a forum for the discussion of current water policies, research, studies, and water management in Georgia. It provides: (1) a forum for exchange of ideas and information for water resources professionals, (2) an update on the current water resources situation in Georgia, and (3) transfer of data, technology and management information.

The conference is sponsored by: U.S. Geological Survey, Georgia Department of Natural Resources, University of Georgia, Georgia Tech Water Research Institute, Natural Resources Conservation Service, and numerous co-sponsors.

Papers for oral presentations and posters are requested on topics related to water policies, legislation, research, on-going studies, technical innovations, issues and concerns, current situation and trends, new approaches, management programs, data and information, education, public participation, institutional and financial arrangements, history, culture, future needs and solutions, and other topics related to water management.

Panels and sessions are being organized for several topics including: metro Atlanta district water, state water policy changes, ACF/ACT tri-state water allocation, water conservation, water supply vulnerability, storms and floods, SW Georgia groundwater, irrigation, coastal groundwater and management, municipal and industrial stormwater management, TMDLs and water quality trading, lake quality, wetlands, cumulative impact analysis, and many others, with extended sessions for the Flint and Savannah River Basins (35 sessions and panels with 3-4 papers each).

Short (half page) abstracts are due on September 30 and may be sent to Kathryn Hatcher by e-mail ([khatcher@ecology.uga.edu](mailto:khatcher@ecology.uga.edu)) or by surface mail to: Ecology Building, The University of Georgia, Athens GA 30602-2202. Two to four page papers for selected abstracts are due on January 10, and final papers in camera-ready form are due February 21 for publication in the conference proceedings. There is no special format for the abstracts (due September 30), but please include

full address information with e-mail addresses for the speaker and all co-authors.

If your paper is to be presented as a poster, please also send a copy of the abstract to Jimmy Bramblett at e-mail: [jimmy.bramblett@ga.usda.gov](mailto:jimmy.bramblett@ga.usda.gov). Educational (non-commercial) conference exhibits are also invited; please send your exhibit description to Jimmy Bramblett at NRCS (Email: [jimmy.bramblett@ga.usda.gov](mailto:jimmy.bramblett@ga.usda.gov)). Early registration for conference speakers is approximately \$120 including two lunches and proceedings. Students receive a reduced rate, and reduced rate is available for one representative from each citizen organization that provides an exhibit or speaker. For information about the conference facilities or lodging, call the UGA Georgia Center for Continuing Education at 706-542-6364, Athens GA. Further information about the conference (including the program from the previous conference) is available at <http://ga.water.usgs.gov/gwrc> courtesy of conference co-chair Bob Pierce and Nancy Barber of USGS.



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## **Second Conference on Salt Water Intrusion in Coastal Aquifers: Monitoring, Modeling and Management**

**Submitted by Patricia Beddows**

The meeting will take place in Merida, Yucatan, Mexico from March 27-April 2, 2003. We invite interested parties to visit the website: [www.igeofcu.unam.mx/swica2/](http://www.igeofcu.unam.mx/swica2/).

A large proportion of the world's population (about 70%) dwells in coastal zones. In the last half-century, population and economic growth have greatly increased freshwater demands. The lack of good management schemes for coastal water resources has led to the over-exploitation of groundwater in many parts of the world. The encroachment of seawater into coastal aquifers has become a common problem. The objectives of this conference are to bring together researchers, practitioners, and water resources managers from all over the world to exchange state-of-the-art knowledge and to propagate technology. It is intended to be a multi-disciplinary meeting that gathers hydrogeologists,

**Please see Conference on page 14**

# Jean Bahr's 2003 Birdsall-Dreiss Lectureship Schedule



Date of Lecture	Location
January 6	USGS Menlo Park
January 9	University of California-Davis
January 15	Washington State University
January 17	Central Washington University
January 21	Boise State University
January 30	Texas A&M University
February 4	University of Texas at Austin
February 10	Indiana University
February 12	Wright State University
February 13	University of Kentucky
February 17	University of South Carolina
February 19	College of Charleston
February 21	Florida State University
February 26	University of Alabama
February 28	Louisiana State University
March 12	Northern Arizona University
March 17	New Mexico Tech
March 24	Western Michigan University
March 27	Michigan State University
March 28	University of Toledo
March 31	University of Toronto
April 2	Syracuse University
April 4	Alfred University
April 7	University of Pittsburgh
April 9-10	University of Delaware
April 11	University of Maryland
April 14	Johns Hopkins University
April 16	College of William and Mary
April 17	University of Virginia
May 6	University of Montana
May 8	University of California-Berkeley
May 14	Oregon State University

## Baedeker from page 10

Award in 2002 for her contributions to hydrogeology research and management of research in water resources. In addition, she teaches a class in organic geochemistry at The George Washington University and has served on dissertation committees for students at GWU. She has made GSA her primary professional society for 25 years. She is also a member of the NGWA, ACS, AGU, and the Geochemical Society.

Congratulations Mary Jo from your friends and colleagues in the Hydrogeology Division!



## Conference from page 13

geophysicists, geochemists, numerical modelers, managers, and policy makers in the same room. The idea is to promote integrated approaches that can bridge monitoring, modeling, and management aspects. To achieve these goals, this conference provides not only regular sessions of scientific presentations, but also keynote lectures aimed at an interdisciplinary audience. Prior to the conference, two workshops have been scheduled. The first is a two day theoretical workshop and the second is a three day tutorial workshop that will provide training on theoretical principles as well as hands-on sessions on computer modeling. Following the meeting we will have two field trips. The first is a one day field trip throughout Northwest Yucatan. The second field trip is a two day field trip in Northeast Yucatan.



## GSA 2002 from page 1

in Karst Modeling. In this issue of the Hydrogeologist, there is a listing of all the sessions – start planning now.

There are Short Courses and pre-meeting and post-meeting Field trips. There are two Town Meetings; one for Consortium of Universities for Advancement of Hydrologic Sciences (CUASHI) and one for the Hydrologic Sciences Program of the National Science Foundation. These Town Meetings are designed to provide the Hydrogeology community with up-to-date information about CUASHI and Hydrologic Sciences Program at NSF. Tuesday offers the Hydrogeology Division business meeting, the Birdsall-Dreiss lecture, and the Student reception. Please plan to attend as many of these special events as you can.

I wish to thank all the Session advocates, the Field trip organizers, and the Short Course professors. Thank you for proposing your course, session, or field trip. Thank you for being patient as Alan and I tried to get more time slots and more room assignments. Thank you for being patient with Alan and me as we sorted through hundreds of abstracts and tried to find good fits for all the abstracts. I especially want to thank Alan Fryar for all the help he provided. Please give Alan as much support next year as you have given me this year.

Carol M. Wicks  
Hydrogeology Representative  
GSA Joint Technical Program  
Committee



## Denver from page 11

happenings. Indeed, this new offering is even more valuable to me and has been vital in my development as a university faculty member and as a professional hydrogeologist. A very wise colleague and friend of mine once told me, “You measure the success of a professional meeting by the number of talks you DON’T attend.” Think about this little quip. It is indeed profound. Heck! it’s brilliant, and it speaks volumes as to how attendance

and interaction at this meeting can help beginning hydrogeologists build the relationships and collaborations that are vital to their careers. Now, don’t for a minute misunderstand. I whole heartedly advise attending as many of the technical program sessions as possible, especially if you are a student, but the wisdom of this statement is incontrovertible - true growth and success, especially for a beginning faculty member, may come more from a few short, but indispensable interactions with mentors and colleagues than from listening to talk...after talk...after talk. For me personally, it is this aspect of GSA that has become the wellspring to which I go to quench my mental thirst. Sharing research ideas and the professional successes of colleagues, getting advice on methodology or a manuscript, and being given a sense that you are respected professionally and belong to this group of highly talented scientists can really boost your morale.

***You measure the success of a professional meeting by the number of talks you DON'T attend.***

But, there is also another, perhaps less obvious benefit to such social interactions, one that is especially valuable if you are a beginning faculty member.

Like many hydrogeology faculty members whose university appointments are in a geology, engineering or natural resource department, I often find myself feeling somewhat isolated professionally...and I'll bet that some of you do also. Sure, there may be a number of faculty members in the overall program, but typically there is just one hydrogeologist. In such a setting, it is easy to become frustrated and feel unproductive. One misses those challenging discussions of graduate school days where you were surrounded daily by presentations of the latest research, and colleagues and peers eager to discuss your data or a new research idea. When you add to this the nagging wondering of whether the politics and stupidity encountered at your university are any worse than that encountered elsewhere, it is easy to become discouraged and apathetic about your chosen profession. I am not afraid to admit that I have indeed felt this way on occasion, and I am quite sure that everyone has at some point in their career as well. So, GSA has become for me a place to not only add to my knowledge and talk scientific shop with colleagues, but also to rekindle my spirit. Annual meetings are a place

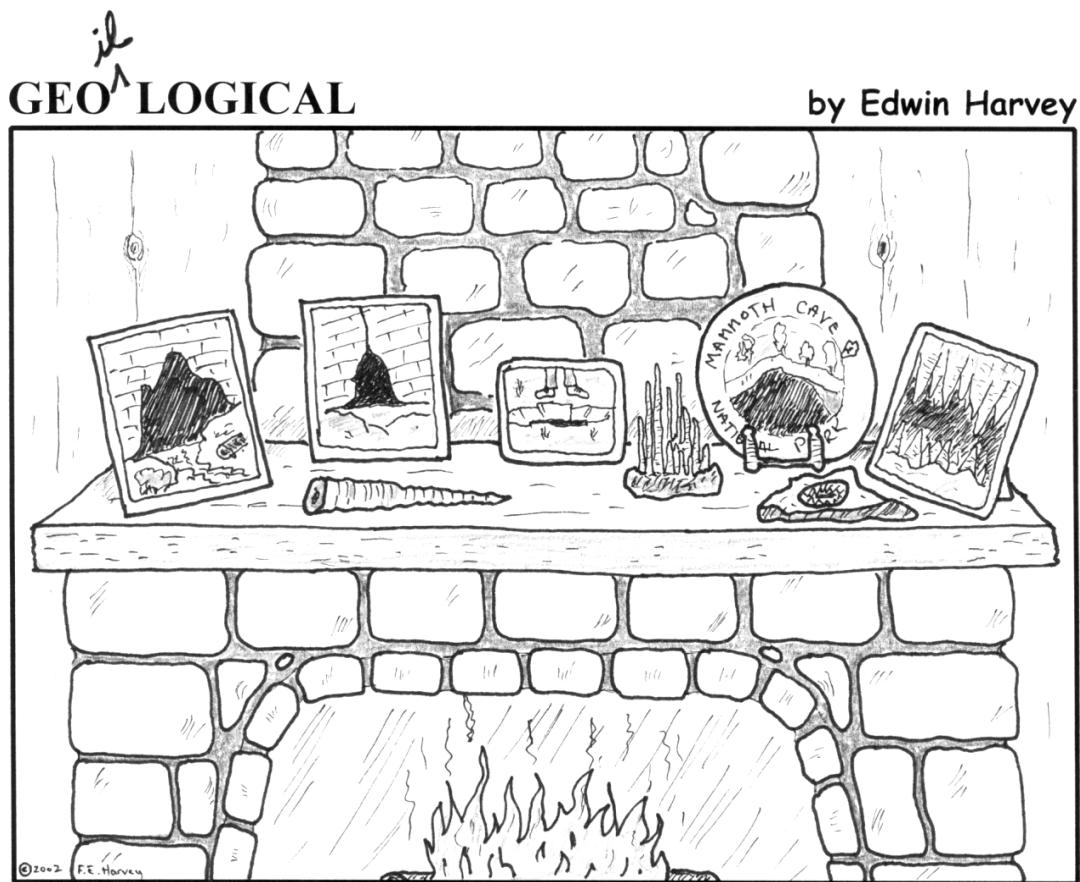
to share the woes of academic life with friends and colleagues over dinner or drinks, to lament the latest budget cuts, the seemingly never ending changes in administrative paradigms, and the lunacy of the university system, and to learn that your problems are no different than those of anyone else. One cannot help but leave the meeting feeling refreshed and revived, ready to face the system again. Truth be told, in many instances you may actually leave the meeting feeling more appreciative of the fact that you may actually have it better than most.

So, after all these years of attending GSA what advice do I have to offer? What message should you take away from this article? Simply this, if you are one of the Division's

faculty or professional members, I urge you to seek out students and your more junior faculty or professional colleagues to offer your wisdom and encouragement to them, make them feel welcome in the hydrogeology family, and play an active mentoring role in their professional development and success. Introduce them to valued colleagues and discuss their research ideas - maybe even agree to collaborate with one of them. If you are one of the Division's student members, I remind you that you are the Division's future, and I encourage you to attend the sessions, the Hydrogeology Division Luncheon and the mixer, and to mingle and interact with your fellow students and with faculty colleagues.

Listen to their words and learn from their experiences and counsel. I can assure you that there is a great *aquifer* of wisdom to be found within the membership of the Division and most members will be more than willing to share it with you.

I have no doubts that all of us should take full advantage of this and future GSA Annual Meetings to not only learn from the myriad of presentations and posters, but also to build lasting and valued relationships that may lead to collaborations, or mentoring opportunities, or simply develop into lifelong friendships. So in closing, I invite all the membership to please come to Denver with the snowfall, and enjoy what I trust will prove to be one of the greatest GSA meetings ever. 



Mantled Karst

# BULLETIN BOARD

## AGU 2002 Fall Meeting

Plan to attend this year's fall meeting in San Francisco, California on Dec. 6-10. The Pre-registration and housing deadline is November 5, 2002. For updates and information visit the AGU webpage at [[www.agu.org/meetings](http://www.agu.org/meetings)]

## New GSA Councilor Named for 2002

Don Siegel has been selected to serve as our new GSA Councilor.

## International Conference of Contaminated Soils, Sediments & Water

October 21-24, 2002 University of Massachusetts at Amherst. For imformation visit the website at [[www.UMassSoils.com](http://www.UMassSoils.com)]

## GSA Needs YOU!

Interested in serving on a GSA committee? Contact Ruth Harrison at [rharrison@geosociety.org](mailto:rharrison@geosociety.org), visit the web page [[geosociety.org](http://geosociety.org)] or read about vacancies in GSA Today's Oct. and Nov. issues.

## 2002 NGWA Ground Water Expo in Las Vegas

This year's National Ground Water Association's Ground Water Expo will take place in Las Vegas, December 9-11. The theme of the technical program is "*Linking Surface and Subsurface Hydrology - From Science to Technology*". For more information about the Expo, visit the NGWA webpage at [[www.ngwa.org/convention/national.html](http://www.ngwa.org/convention/national.html)]

## Policy from page 4

or Partnership Among Geoscientists, the Public, and Policy Makers: Case Studies — includes presentations on nuclear waste disposal, groundwater protection in Ireland, earth science curricula in Texas, and building codes in California. It starts at 8 a.m. in Colorado Convention Center A111/109. Case studies in the afternoon session — T94. Injecting Geoscience Into Public Policy: Strategies That Work Speakers — include sinkholes in Florida, climate change legislation in Congress, natural resource fieldtrips for legislators in

Kansas, and a congressional caucus on natural hazards. It starts at 1 p.m. in Colorado Convention Center Ballroom 4. A full list of speakers for both sessions is available at <http://www.geosociety.org>. Please come!

David Applegate, Director of Government Affairs, American Geological Institute  
(703) 379-2480 x228 voice; (703) 379-7563 fax;  
[applegate@agiweb.org](mailto:applegate@agiweb.org)

## From The Editor...



Well, another year has passed and I want to say without reservation that I have thoroughly enjoyed serving as your newsletter editor the past twelve months. Thank you to GSA, the Hydrogeology Division Management Board, and the membership for the opportunity. This issue features articles, stories, program schedules and photos related to the upcoming Geological Society of America Annual Meeting in Denver at the end of October and it would not have been possible without the contributions of many different people to whom I am extremely grateful. Thanks to everyone who submitted articles and information, and a special thanks to the Denver Metro Convention and Visitors Bureau and Seattle's Convention and Visitors Bureau for the nice photos you will see throughout this issue.

In addition to my duties as newsletter editor, I also serve as our webmaster (though master is a term for which I would allow debate - but hey, I'm learning).

While admittedly more frustrating for me, I also enjoyed this position of service as well. True, we had some minor glitches...to be expected following the movement of any page to a new server....and yes, some members were unable to access the new page in its revised format (Don't worry, I plan to look for Bill Gates in Seattle next year to give him a piece of my mind), but with a little time, patience, and the help of my department's indispensable IT person, we worked things out, and I believe we have most of the major problems solved. Those that are not, I will continue to attack until all is working flawlessly. So, look for updates soon, and perhaps a new text only page option for those members with older or non-Windows friendly systems. As always, if you have ideas or information for the newsletter or web page, please send them to me at the address at the bottom of page two. Thanks again. *See you in Denver!*

F. Edwin (Ed) Harvey, Editor  
**The Hydrogeologist**

Just think...you could be here. Join us this fall  
for Science at the Highest Level - GSA, 2002

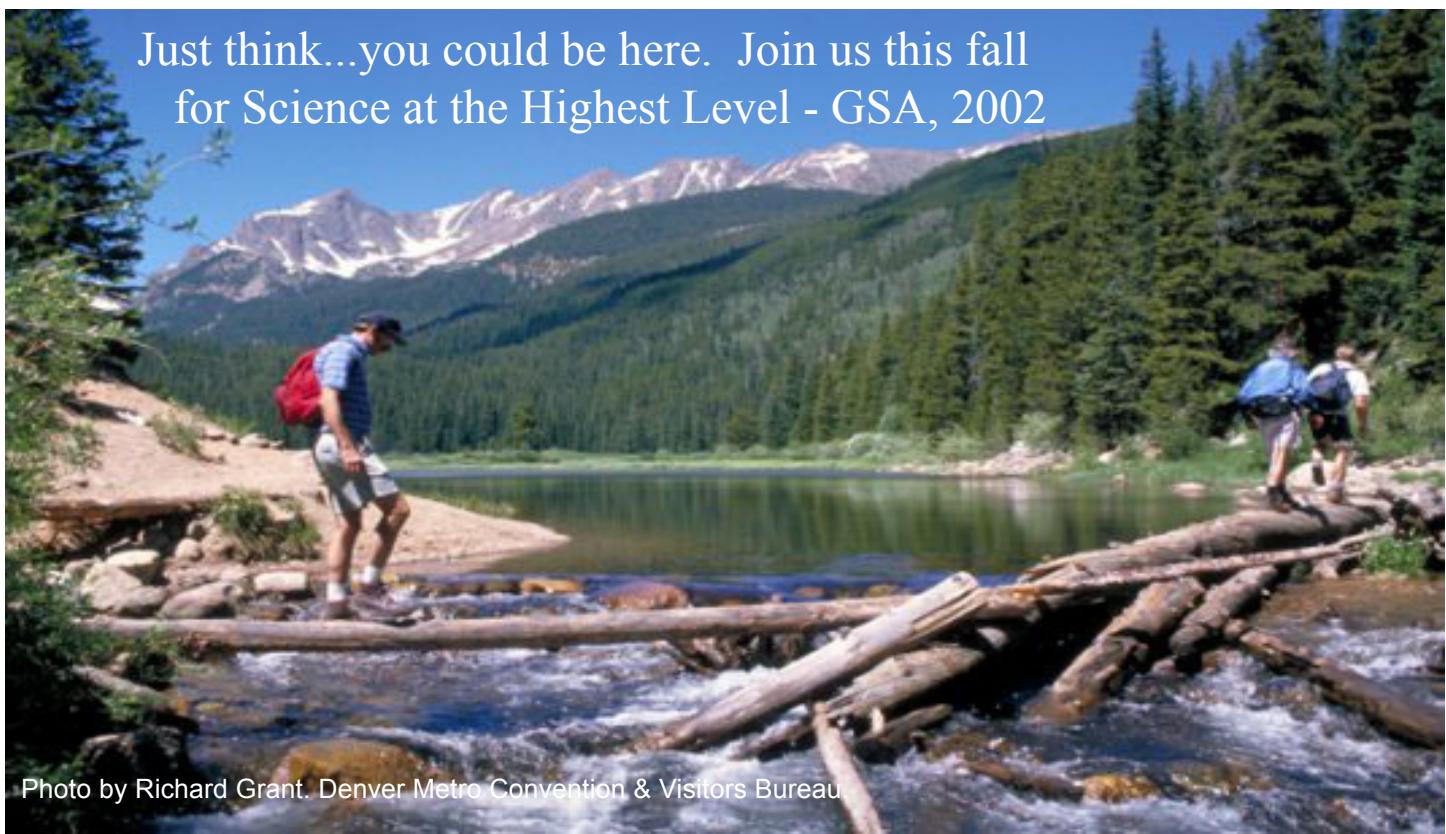


Photo by Richard Grant. Denver Metro Convention & Visitors Bureau.

# Hydrogeology Division Contacts

## 2002 Management Board

**Chair:** Bill Simpkins (bsimp@iastate.edu)

**First Vice-Chair:** Robert W. Ritzi (rritzi@wright.edu)

**Second Vice-Chair:** Chris Neuzil (ceneuzil@usgs.gov)

**Secretary-Treasurer:** Ralph K. Davis (ralphd@mail.uark.edu)

**Past Chair:** Jean Bahr (jmbahr@geology.wisc.edu)

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### Technical Program Committee:

Carol Wicks (Co-Chair; wicksc@missouri.edu) and Alan Fryar (Co-Chair; afryar1@uky.edu)

### Nominating Committee:

Darryll Pederson (Chair; dpederson@unlserve.unl.edu), Mary Jo Baedecker, Steven Wheatcraft

### Meinzer Award Committee:

Mary Anderson (Chair; andy@geology.wisc.edu), Ed Sudicky, Laura Toran, Fred Phillips, Scott Tyler

### Birdsall-Dreiss Lecturer Committee:

E. Scott Bair (Chair; bair.1@osu.edu), Stephen Ingebritsen, Graham Fogg (Lecturer)

### Distinguished Service Award Committee:

Abe Springer (Chair; abe.springer@NAU.EDU), Berry Lyons, Ken Bradbury

## Ad Hoc Committees

### Historical Committee:

Steve Wheatcraft (Chair; steve@hydro.unr.edu)

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

Mary Jo Baedecker (mjbaedec@usgs.gov)

## Section Representatives

Section representative positions are being determined and will be published in an upcoming issue of the Hydrogeologist

## Representatives to Other Societies

Colin Booth - IAH

David Rudolph - NGWA/AGWSE

Dave Diodato - AGU/AGI

## Newsletter Editor / Webmaster:

F. Edwin Harvey (feharvey1@unl.edu)

## GSA Council:

Don Siegel (disiegel@mailbox.syr.edu)

**Hydrogeology Division Website:** <http://gsahydrodiv.unl.edu>