The Hydrogeologist

Newsletter of the
GSA Hydrogeology Division

Summer 2014
Issue No. 82

Make your plans now for the GSA Annual Meeting in Vancouver, BC Canada! The proposed topical sessions for the 2014 Fall meeting illustrate the strength of the section and the breadth of the science. The Hydrogeology Division is sponsor or co-sponsor of 44 topical sessions across many spatial scales and subdisciplines, in addition to a Pardee Keynote Symposium on Energy Resource Development. See the list of sessions on Page 3.
As usual, the Hydrogeology Division will host several other events throughout the conference, providing you with many opportunities to meet and mingle with colleagues.

Please keep the following days/times open for these Hydrogeology Division special events:

- Monday afternoon: Darcy lecture by Dr. Dorthe Wildenschild
- Tuesday lunch: Hydrogeology Division Luncheon and Awards Reception followed by Division business meeting
- Tuesday afternoon: Birdsall-Dreiss lecture by Dr. Larry Band
- Tuesday evening: Hydrogeology Division student reception

Hope to see you there!

In This Issue:

Chair's Corner...

Alan Fryar, Chair
GSA Hydrogeology Division

Why are you a member of the Hydrogeology Division?

Is it the opportunity to learn, network, and socialize at meetings? The 2014 Annual Meeting in Vancouver will offer all this and more in a spectacular setting. Thanks to Ben Rostron, Chris Gellasch, and the session conveners, the Division is sponsoring 23 proposed topical sessions and co-sponsoring 21 others plus a Pardee Symposium. These cover a broad range of topics, including recurring favorites such as karst, water quality, groundwater-surface water interactions, and agricultural impacts on water resources. Other topics are particularly timely or relevant to the Pacific Northwest, such as mining hydrogeology, groundwater and energy resources, and cryosphere hydrology. The Division is also sponsoring post-meeting field trips on the transboundary Abbotsford aquifer and the Nanaimo Lowlands of Vancouver Island. Remember the abstract deadline is July 29, and remember your passport (unless you're Canadian)!

Is it the opportunity to recognize those who have made contributions to our profession and help guide its future? This issue contains bios for the 2014-15 Division officer slate. I'm delighted that Maddy Schreiber and Alicia Wilson are willing to continue serving and that Abe Springer is willing to join them. I'll wait until the next issue to identify the Division's award recipients for 2014, but I think you'll agree they're outstanding.

Is it the chance to be part of a diverse, growing community of professionals and students? The Division currently has 1,539 members, up from 1,320 last August. This growth is due, at least in part, to the new option for each student member of GSA to join one division for free. Students are our single largest group (656 total). There are 613 regular members or fellows, 173 senior members or fellows, 91 recent graduates, 4 K-12 teachers, and 2 affiliates. As I mentioned in the last issue, to maintain this growth, we need to ensure that the Division's offerings remain relevant to students after they graduate. We need to attract professionals at all career stages, including those working outside of academia and research institutes, and to draw more members from outside the USA. Of our non-American members, 49 are Canadian, while 39 live in 20 other countries. (Of course, some members from outside the USA study or work here.) Many of us collaborate internationally. How many of us encourage our international colleagues to join?

So what do you get for your $12 (if you're a member or fellow) or $5 (if you're a recent graduate or a teacher)? If you're a student, why should you pick us for your free Division membership?
Your dues go to the Division's unrestricted account. This helps to

Please see **Chair** on Page 5

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, the publication moved from paper-based to electronic media. The electronic version may be accessed at: <http://gsahydrogeology.org>. 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 and material are most welcome, and should be directed to the Editor. Submission as a Word or WordPerfect document is most expedient. The deadline for the Fall issue is September 15, 2014.

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Technical Sessions sponsored or co-sponsored by the Hydrogeology Division and those listing Hydrogeology as a discipline

Pardee Sessions: (http://community.geosociety.org/gsa2014/science/sessions/pardee)

3. Energy Resource Development and Groundwater: Looking Broader and Deeper

Topical Sessions: (http://www.geosociety.org/meetings/2014/sessions/topical.asp)

47. Soil as a Controller and Integrator of Geological Processes
49. Soil Development and Pedogenesis in Geosciences
51. Geology and Hydrology of the National Parks: Research, Mapping, and Resource Management
57. Digital Geology Sandpit (Digital Posters)
59. A Grand Tour of the World's Most Important Geological Sites on Google Earth
77. Undergraduate Research Projects As a Way to Solve Water-Related Problems/Issues (Posters)
81. Geology of Metals and Human Health Impacts
82. Enhancing the Toolkit for Karst Investigations
83. Karst Systems and Processes in Mountainous and Alpine Terrain
95. Frontiers in Environmental and Engineering Geology
98. Environmental and Engineering Geology Student Research Competition
103. Mining and the Environment: Addressing Common Challenges Faced across the Mining Industry
105. Deconstructing Terroir: Geologic Influences on the Sensory Components of Foods and Beverages
109. New Research on the Taku and Llewellyn Glaciers, Juneau Icefield, Alaska and British Columbia: Extending a 68 Year Climate Science Legacy
112. Shale Gas and the Environment
114. The Fate of Passive Acid Mine Drainage Treatment Systems: Results, Solutions, and Advances for Continued Improvement of Impaired Waters
115. Impact of De-Icing and Agricultural Chemicals on Water Quality and the Environment
116. Water Contamination and Treatment in Developing Countries
124. Sources, Transport, Fate, and Toxicology of Trace Elements and Organics in the Environment
138. Geoscience Investigations of the Polar Regions
142. Warnings Heeded, Problems Fixed, Disasters Averted: Stories about How Geology and Geologists Have Succeeded in Helping Society
144. Regional and National Geological Mapping: Multidisciplinary 3-D Data Integration and Modeling
151. Energy Resource Development and Groundwater: Looking Broader and Deeper (Posters)
152. Transport of Micropollutants in Groundwater
153. Characterization and Remediation of Fractured Rock
154. Groundwater and Surface-Water Arsenic: From Source to Sink
155. The Role of Groundwater in the Eutrophication of Surface Waters
156. Agricultural Impacts on Water Quality: Are We Making Progress?
157. Joint Sustainability of Water Resources and Petroleum Energy Production
158. Assessing Vulnerability of Water Supply Wells from Wastewater: Sources, Contaminants, Tracers, and Pathways
159. Groundwater in Cold Environments: Current Understanding and Challenges
160. Environmental Effects of Oil and Gas Development on Water Quality: Toward Sustainability and Stewardship

Please see **Sessions** on Page 5

Impressions from the 2013 Birdsall-Dreiss lectures

From evaporation dynamics of terrestrial surfaces to microbial life in the subsurface

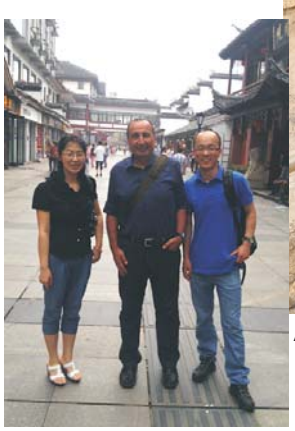
Dani Or
Dep. of Environmental Systems Science, ETH Zurich, Switzerland

Short Bio: Dani Or is a professor of Soil and Terrestrial Environmental Physics and Director of the Institute of Terrestrial Ecosystems (ITES) in the Department of Environmental Systems Science of the Swiss Federal Institute of Technology (ETH) Zurich, Switzerland. His research focuses on mass and energy transport in porous media, on the mechanics of landslides and avalanches, and on linking physical processes with biological activity in porous media. Dr. Or has authored over 200 refereed publications, co-authored a book, and over 300 proceeding papers and abstracts. Dr. Or is the outgoing Editor in Chief of the Vadose Zone Journal, recipient of the Kirkham Soil Physics Award (2001), 2004 Fellow of the Soil Science Society of America, chair of the 2008 Gordon Research Conference on Flow and Transport (Oxford, UK), 2010 Fellow of the American Geophysical Union, 2013 Birdsall-Dreiss distinguished lecturer, and the recipient of the 2013 Helmholtz International Fellow Award. (visit: http://www.step.ethz.ch/people/scientific-staff/dani-or)

The Birdsall-Dreiss lectureship is a strange mix of professional recognition coupled with an exhausting travel schedule across continents and with meeting and interacting with diverse people from different professional and cultural backgrounds (all packed into 8 to 10 months period). You emerge from the experience with a feeling similar to getting off a rollercoaster – dizzy, exhilarated, and not quite sure what just happened. Normally, the B-D lecture tour takes place in parallel to normal teaching, mentoring, research, and family obligations – the constant juggling and the complaints should come as no surprise... Perhaps the most rewarding aspect of the B-D lectureship for me, was the opportunity to meet many interesting and enthusiastic students and colleagues in their natural environment (unlike occasional meeting at a conference). Interestingly, while your own "story" remains relatively constant (two B-D lectures), the background and audiences change constantly, creating an eerie feeling of "Groundhog Day" movie filmed at many different locations… The B-D lectureship is a vast learning experience mostly about the state of the hydrology profession, but also about one's ability to interact, inspire, adapt to situations and learn new things.

During 2013 I visited 32 locations in 3 continents (Europe, North America, and Asia) traveling over 50k miles. The two lectures were on "How do porous terrestrial surfaces control evaporation into the atmosphere?" and on "Biophysical processes shaping microbial life in soil: an unexplored universe under our feet". My opening act in Florida International (Miami) started with a 7 hrs hike in knee-deep water through the Everglades the evening before (courtesy of Mike Sukop) - a memorable experience. Towards the end of the tour, I was fortunate to be introduced to the fascinating secrets of Prairie hydrology and the beautiful landscape that I knew very little about (courtesy of Masaki Hayashi, U. Calgary). I am forever grateful to the Hydrogeology community of the GSA for this unexpected honor and for all the opportunities and experiences it presented.

Below: Or in Nanjing, China



Above: Or in Masada, Israel

Sessions from Page 3

161. Application of Isotopes of Water to Characterize Hydrogeological Processes in Mine Environments
162. Hydrogeology of Arid Region Endorheic Basins: Groundwater Flow, Geochemical Evolution, and Hydrostratigraphy
163. Satellite Remote Sensing Applications in Hydrology and Geology
164. Dynamics of Groundwater Temperature: From Recharge to Discharge Zones
165. Spatial and Temporal Variability in Water Requirements for Hydraulic Fracturing of Shale Oil and Gas Plays
166. Gas-Water Interactions in the Subsurface
167. Oil Sands and Groundwater: Steam-Assisted In-Situ Production, Open-Pit Mining, and Reclamation
168. The Interaction of Geophysics, Geochemistry, and Hydrogeology with Ground-Source and Other Geothermal Systems
169. It's a Cold, Cold World: Permafrost and Glacial Hydrogeology
170. Physical and Biogeochemical Measurements That Characterize Groundwater–Surface Water Interactions: Where to Go from Here?
171. Leading Edge of Produced Water Research: Impacts, Fingerprinting, and Science of Brines Associated with Hydrocarbon Production
174. Non–Steady-State Element Dynamics in Lakes
187. Recent Advances in the Exploration, Characterization, and Development of Geothermal Resources in the Pacific Northwest (Posters)
191. What Do We Know about Fluids Produced from Unconventional Reservoirs?
220. Planetary Hydrology
237. Carbonate Reservoirs—Characterization, Geochemical Modeling, and Case Studies

Chair from Page 2

subsidize the Birdsall-Dreiss Lecture tour and covers various expenses at the Annual Meeting, such as travel for student grant winners and the Darcy Lecturer, the student reception, and costs associated with the Division's two business meetings. As a Division member, you're able to serve as an officer, committee member or representative. You get targeted e-mails (you can thank us later for those).

For me, all of the reasons above apply. I invite you to e-mail me (alan.fryar@uky.edu) and tell me your reasons for being a member. I'll summarize the responses I receive in the next issue.

I promised in the last issue that I'd say more about my time overseas. Thanks to the U.S. State Department (ultimately, the American taxpayer), my Moroccan hosts, and my institution (the University of Kentucky), I had a terrific experience as a Fulbright Scholar studying springs in the Middle Atlas region from January to May. In the Middle East and North Africa, water resources are particularly susceptible to climate change and population growth. I traveled to various parts of Morocco as well as Algeria and Ethiopia. In these countries and the others where I've worked, there are many talented, hospitable hydrogeologists who are eager to collaborate. The logistics can be challenging, but the opportunities for personal and professional growth are profound.

Finally, I'd like to acknowledge Mike Sukop, our webmaster, for setting up the new website (gsahydrogeology.org) on which this newsletter is hosted.

Happy summer (or winter, for our members in Australia and New Zealand)!

– Alan

Want to know what's going on within the Division?

Then visit our website at <http://gsahydrogeology.org>

OR

Join the GSA Hydrogeology Division facebook group to catch up on the latest events or find out how you can become more involved with our activities

THE GEOLOGICAL SOCIETY OF AMERICA®

CALL FOR APPLICATIONS

GSA is soliciting applications and nominations for a science co-editor for *Environmental & Engineering Geoscience*, co-published by GSA and the Association of Environmental and Engineering Geologists. The four-year term begins as early as 1 January 2015. (This is negotiable.) Duties include: ensuring stringent peer review and expeditious processing of manuscripts; making final acceptance or rejection decisions after considering recommendations of reviewers; maintaining excellent journal content through active solicitation of diverse and definitive manuscripts; and selecting Associate Editors. The editor also represents the journal on the GSA Publications Committee (two meetings per year) and must attend the *E&EG* Editorial Board meeting annually.

POSITION AVAILABLE

Co-Editor ▸ **1 position**

ENVIRONMENTAL & ENGINEERING GEOSCIENCE *E&EG* has two editors—one appointed by AEG and one appointed by GSA. The GSA-appointed co-editor is primarily responsible for handling manuscripts that include environment-focused topics, such as groundwater contamination, landform studies, mining impacts, site evaluation, and environmental quality. Therefore, it is beneficial for the co-editor to have expertise in one or more of these geoscience subdisciplines: hydrogeology, low-T geochemistry, geomorphology, and/or environmental geophysics.

A SUCCESSFUL EDITOR WILL HAVE

- a broad interest and experience in geosciences, including familiarity with new trends;
- international recognition and familiarity with many geoscientists and their work;
- a progressive attitude and a willingness to take risks and encourage innovation;
- experience with online manuscript systems and the ability to make timely decisions; and
- a sense of perspective and humor.

INTERESTED?

Please submit a curriculum vitae and a letter describing why you are suited for the position. To nominate another, submit a nomination letter and the person's written permission and CV. Send nominations, applications, or questions to Jeanette Hammann, jhammann@geosociety.org, GSA Publications, P.O. Box 9140, Boulder, CO 80301, USA. Editors work out of their current locations at work or at home. GSA provides an annual stipend and funds for office expenses. Nominations or applications received by 10 October 2014 will be given first consideration.

Serving the Division and the Discipline

Ira D. Sasowsky

You will see in this issue of *The Hydrogeologist* a call for applications to serve as co-editor of the journal *Environmental & Engineering Geoscience* (*EEG*). As the current co-editor, I wanted to share with you some background on the journal, and my experiences over the last few years.

EEG began its life as the *Bulletin of the Association of Engineering Geologists*. After that organization broadened its coverage, changing their name to the Association of Environmental and Engineering Geologists, an agreement was reached with GSA wherein the two organizations would co-publish the journal. At that time, the journal took its present name, and each organization appointed a co-editor. The GSA co-editor has traditionally had strong ties to the GSA Hydrogeology Division. My predecessor was Alan Fryar, who had followed Jack Sharp.

The role of the GSA co-editor is to share oversight of the ongoing journal operations, and to handle manuscripts generally falling in the realms of hydrogeology-geochemistry-geomorphology-environment. The AEG co-editor handles papers whose focus is engineering-geotechnical.

I have received both professional benefit and pleasure from my tenure as co-editor. The opportunity to meet colleagues from different disciplines, to examine manuscripts of various topics from across the world, and to help set the direction of this journal have all been fantastic. The work is at times hard, but overall the experience has been great. I encourage colleagues within the Division to consider serving the Society in this position.

Where in the World?

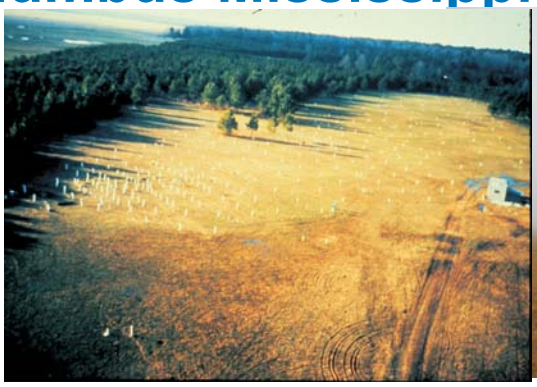
This edition's Where in the World photo is compliments of the man posing in the photo himself, Chair Alan Fryar.

If you need a hint for this photo, just read his Chair's Corner article on page 2.

Submit your guesses to andrea@kgs.ku.edu

I also welcome any and all photos for upcoming newsletters. Show off your field site or your most recent hydro-related vacation pictures to all our members!

Macrodispersion Experiment (MADE) Site - Columbus Mississippi



Congratulations to Don Whittemore of the Kansas Geological Survey for identifying these pictures as being from the MADE site in Mississippi. I suppose it is cheating a little since these photos were given to me by another member of the KGS research group. However, Don was the first, and only, person to correctly identify the photos.

The Macrodispersion Experiment site, commonly referred to as the MADE site, is located on the Columbus Air Force Base in Mississsippi. Contrary to the Borden site, the MADE site has been used for decades to study complex contaminant transport problems as MADE contains highly heterogeneous aquifers. Field work began in 1983 at this site by researchers from Massachusetts Institute of Technology and Tennnesse Valley Authority to study macrodispersion theory in a heterogeneous aquifer.

Considerable field work has since been conducted at this site, including natural gradient field tests using bromide and tritium, and several geophysical surveys in order to improve site characterization.

GSA Hydro division member, past Birdsall-Dreiss lecturer (2009), and recent (2013) O.E. Meinzer Award winner Chunmiao Zheng provides an excellent review of research done at this site in his Zheng et al (2011) paper from Groundwater (doi: 10.1111/j.1745-6584.2010.00753.x).

2015 Hydrogeology Division Officer Candidates

The 2015 officer elections are just around the corner. These elections will determine the upcoming Hydrogeology Division Officers. Online voting will begin shortly, and paper ballots will be mailed to those who have requested them. The GSA will send an e-mail announcing the beginning of the elections, in addition to a link to the voting website. Here is a preview of the candidates for the 2015 Hydrogeology Division officers:

Chair:

Madeline Schreiber, Ph.D. 1999, University of Wisconsin-Madison, is an Associate Professor of Geosciences at Virginia Tech in Blacksburg, VA. She teaches courses in introductory geology and hydrogeology and has authored or co-authored 46 peer-reviewed publications. She is a Fellow of the GSA, a member of AGU, NGWA and AWG and an Associate Editor for Groundwater (2004-present). For the GSA Hydrogeology Division, she has been the Joint Technical Program Chair (2010-2011), and a member of the Meinzer Award (2005-2007) and Kohout Early Career Award (2011-present) committees. She was the Second Vice Chair of the Hydrogeology Division in 2012-2013, is currently the First Vice Chair, and serves on the Hydrogeology Division Management Board.

Statement of Interest: Since I joined as graduate student at UW-Madison, the Hydrogeology Division has been a supportive and welcoming place for hydrogeologists at all levels. I have been incredibly impressed at the breadth of hydrogeology topics covered at the annual and regional meetings, and would strive to continue that breadth as a member of the division's management board. The encouragement and mentoring of students are key strengths of the division, and I would work to further the strong tradition of student professional development.

1st Vice Chair:

Alicia Wilson, Ph.D. 1999, Johns Hopkins University, is an Associate Professor in the Department of Earth and Ocean Sciences in the School of the Earth, Ocean and Environment at the University of South Carolina, where she has been since 2001. She teaches courses in environmental science, hydrology, hydrogeology, and numerical modeling. She has graduated one Ph.D. and five M.S. advisees, and she currently advises three Ph.D. students. Her research has focused on transient groundwater flow and transport in large sedimentary basins and coastal systems, with a particular focus on submarine groundwater discharge. She has served as an associate editor for Hydrogeology Journal (2005-2009) and Water Resources Research (2014-present); she has also served on the Integrated Ocean Drilling Program Scientific Steering and Evaluation Panel (2005-2008). She is a member of AGU and AWG; she served on the GSA Joint Technical Program Committee as a Hydrogeology Division representative from 2010-2012 (lead organizer for the Hydrogeology Division technical program, 2012 meeting).

Statement of Interest: The GSA Hydrogeology Division supports the hydrogeology community in a way that no other organization does. It would be an honor to contribute to the traditions and growth of the division.

Please see **Elections** on Page 9

Elections from Page 8

2nd Chair:

Abe Springer, Ph.D. 1994, The Ohio State University, is Professor of Hydrogeology and was the Inaugural Director of the School of Earth Sciences and Environmental Sustainability at Northern Arizona in Flagstaff, AZ. At NAU, he has taught courses in hydrogeology, applied geology, groundwater modeling, contaminant transport modeling, and springs ecohydrology, advised 35 graduate students, and published 23 peer-reviewed publications. He is a fellow of GSA and member of Sigma Xi, NGWA, AGU, AHS, and IAH. He has served as the GSA representative to the editorial board of Environmental and Engineering Geoscience (2007-2011), Meinzer Award Committee (2001-2003), the NAU campus rep for GSA (2001-present), and has organized six division theme sessions and taught one short course at GSA annual meetings.

Statement of Interest: In my 20 year career as a professor, my students and I have significantly benefited from engaging in the professional networking opportunities of the division through national and regional meetings, field trips, and workshops. My experiences supporting the division's journals, Environmental and Engineering Geology and Hydrogeology, through publishing, reviewing, and advising will be leveraged on the management board to enhance their missions. I will work to enhance the outreach of the division through the Birdsall-Dreiss lecture series and other mentoring activities.

Jim Mercer: Hydrogeologist and Novelist

Hydrogeology Division Senior member Jim Mercer now has more than technical papers and textbooks in his list of publications. Mercer now has three fiction novels, thrillers, to his credit. They are *The Scrolls: The Missing Eighteen Years, The Volcano that Changed the World* and *The Tsunami that Reshaped America*. His most recent novel, *The Tsunami that Reshaped America* was released earlier this year.

A detailed account of these novels and an interview with Dr. Mercer is included in the February 2014 edition of Water Well Journal. This article includes accolades from GSA Fellow and past Hydrogeology Division president Lenny Konikow, saying that he didn't want to put them down once started, and that he "liked the way he {Jim) wove geology, hydrology and science in general through the stories". We encourage you to check out these works of our colleague, and look forward to further novels.

Do you have an interesting idea for a short scientific article? Perhaps an opinion on a new policy or technique? Any exciting news in your professional life? Upcoming conference? An announcement of interest to the hydrological community? If so, why not publish it in The Hydrogeologist? Send your submission ideas to andrea@kgs.ku.edu

STUDENTS, WE WANT TO HEAR FROM YOU TOO!

BULLETIN BOARD

2014 Annual GSA Meeting Approaching Fast

Don't forget to submit your abstracts for the upcoming Annual Meeting of GSA in Vancouver, BC, Canada. The online abstract deadline is Tuesday, July 29, 2014. Please visit the GSA Webpage: community.geosociety.org/gsa2014 to review the list of this year's sessions, submit an abstract, and register!

NGWA Groundwater Expo and Annual Meeting

The NGWA Annual meeting, "A Sound Investment" is planned for December 9-12 in Las Vegas, NV. See the website for details: groundwaterexpo.com

IAH 2014 - Groundwater: Challenges and Strategies

September 15-19, 2014
Marrakech, Morocco

www.iah2014.org

AGU Fall Meeting Abstract Submissions Open

Abstracts for the AGU 2014 Fall Meeting (December 15-19) in San Francisco can now be submitted; deadline is August 6, 2014. See the website for details: http://fallmeeting.agu.org/2014/

PLACE YOUR ANNOUNCEMENT HERE

From the Editor....

Summer is here! It is official, not only because of summer solstice but also because of the release of the summer edition of the Hydrogeologist!

While I am not a fan of the heat, I am enjoying the longer days and the time spent outside. This was a great winter, I got a chance to go skiing with family in Whistler, BC, which is less than a 2 hour drive from Vancouver, the host city for this year's GSA Annual meeting. I encourage everyone to join us at this year's meeting and to enjoy all of the things Vancouver and the rest of BC have to offer.

As usual, if you have any comments or article ideas please pass them on to me at andrea@kgs.ku.edu.

Hydrogeology Division Contacts

2014 Management Board
Chair: Alan Fryar: alan.fryar@uky.edu
First Vice-Chair: Maddie Schreiber: mschreib@vt.edu
Second Vice-Chair: Alicia Wilson: awilson@geol.sc.edu
Secretary-Treasurer: Eric Peterson: ewpeter@ilstu.edu
Past Chair: Todd Halihan: todd.halihan@okstate.edu

Standing Committees

Technical Program Committee:
Bill Sanford and Eliot Atekwana (2013 - Denver)

Nominating Committee: Ed Harvey (Chair), Steve Ingebritsen, Todd Halihan

Meinzer Award Committee:
Graham Fogg (Chair), Kamini Singha, David Parkhurst, Chunmiao Zheng, Karen Johannesson

Birdsall-Dreiss Lecturer Commitee:
Jay Famiglietti (Chair), Dani Or, Larry Band, Lenny Konikow, Kip Solomon

Maxey Distinguished Service Award Commitee: Mary Anderson (Chair), Brian Katz, Scott Bair

Kohout Early Career Award: Steve Van der Hoven (Chair), Maddie Schreiber, Bayani Cardenas, Laurel Larson, Ward Sanford

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Southeastern - Joe Donovan
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American Geological Institute - Dave Wunsch
National Ground Water Association - Bill Alley
International Assoc. of Hydrogeologists - Jack Sharp
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Soil Science Society of America - Michael Young

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Hydrogeology Division Website: <http://gsahydrogeology.org>