



**IGA** *Illinois Groundwater Association*

*Established 1983*

*Volume 16, Number 1*

*March 2000*

### **Spring Meeting**

The Spring 2000 IGA Meeting will be held at the APS Conference Center, Argonne National Laboratory, Argonne, Illinois on April 20, 2000. Registration for the meeting will begin at 8:00am with the meeting starting at 9:00 and concluding about 4:00pm. The program will include a luncheon and, following lunch, a tour of a phytoremediation site that will be the topic of one of the presentations. Our business meeting will be held following the tour before getting back to additional interesting presentations.

Argonne is conveniently located off of Interstate 55 approximately 15 miles from Chicago (see maps). Overnight facilities are available onsite at the Argonne Guest House. Reservations can be made by phone to Carmie White at (800) 632-8990 or (630) 739-6000 or by email at [argonne-guest-house@anl.gov](mailto:argonne-guest-house@anl.gov). Information on the Guest House can be found at [www.aps.anl.gov/travel/anlghhome.html](http://www.aps.anl.gov/travel/anlghhome.html) and additional information on Argonne at [www.anl.gov](http://www.anl.gov). The Argonne site is an access controlled government facility. To help with this, pre-registration is advised. On your registration you will need to state your citizenship. We will be providing ANL with a list of participants for the meeting. These people will be able to just check in with the guard (say you are attending the Illinois Groundwater Association Meeting) and drive to the APS Center. If you plan on registering onsite you will need to go to the Reception Center at the Main Gate to check in before proceeding to the meeting. Non-citizens will need to go to the Reception Center. In any case, make sure you have adequate identification with you.

For more information on registration, please call Terry Dixon, IGA Treasurer, at (309) 359-6005. To pre-register, please mail the form along with your registration fee to Terry Dixon, Illinois Groundwater Association, c/o Environmental Science & Engineering at 15976 Deer Lane, Mackinaw, IL 61755. Those with special dietary needs for the luncheon should make sure to contact Terry in advance.

## Workshop Co-sponsorship

IGA is cosponsoring the 3-day short course/workshop "Advances in Site Characterization for Environmental and Engineering Projects at Glaciated Sites" along with the Association of Engineering Geologist and University of Minnesota. The Midwest GeoSciences Group is holding the short course/workshop in the Minneapolis/St. Paul area on October 5-7, 2000. As cosponsors there will be a substantially discounted rate for IGA members as well as a chance for us to set-up our display and familiarize workshop participants with the various programs and educational activities that IGA offers.

The 3-day course is subdivided into short course segments, field workshops, and technology demonstrations. The short course sessions are designed to educate scientists and engineers on state-of-the-art hydrogeologic and geotechnical site characterization methods at glaciated sites with an emphasis on the application for environmental and engineering projects. The field sessions will cover Rotasonic core examination for conceptualization and mapping of glacial stratigraphic sequences, description of key features for recognizing and differentiating stratigraphic units for improved field descriptions of glacial sediments, and field development of cross-sections, lithologic analysis and mapping. The field sessions will also cover new hydraulic conductivity testing procedures for direct push boreholes, Cone Penetrometer Testing, downhole video and geophysical survey procedures and demonstrations of new directional sampling technology and MiniSonic drilling methods.

For more information contact Dan Kelleher at (612) 551-2435 or [info@midwestgeo.com](mailto:info@midwestgeo.com). Information on the course is also available on the Midwest GeoScience Group webpage at [www.midwestgeo.com](http://www.midwestgeo.com).

## 91<sup>st</sup> General Assembly Summary of HB3034

*By Paul M. Kesich, Fermilab National Laboratory*

HB3034 creates the Illinois Groundwater Quantity Management Act. The last action on the bill was referral to the House Rules Committee on January 5, 2000.

The act

1. Allows the Department of Natural Resources to conduct groundwater quantity management area needs assessments for certain counties and develops groundwater quantity management area plans for those counties.
2. Provides that the county must adopt a plan.
3. Requires the Department and the county to review the plan at least every 5 years.
4. Requires the payment of compensation when a high capacity well causes well interference with a domestic well.
5. Allow certain counties to establish a domestic well upgrade fund to pay for the repair or replacement of domestic wells that fail to supply water or that experience a significant reduction in performance due to well interference.

## 91<sup>st</sup> General Assembly Summary of HB3034 (continued)

6. Provides that a person who violates the Act may be fined not less than \$1000 and not more than \$2000 per day of violation.
7. Amends the Counties Code.
8. Provides that the county board may control and manage groundwater developments in a manner that is not inconsistent with the Illinois Groundwater Quantity Management Act.
9. Amends the Illinois Municipal Code.
10. Deletes a provision that a municipality may prevent or punish an injury to the municipality's water source or water works within 20 miles of its corporate limits.
11. Amends the Water Authorities Act.
12. Provides that permits issued by a water authority may set requirements based on guidelines set by the Department of Natural Resources for the spacing and location of wells and the depth of wells and the depth of pumps and settings.
13. Provides that a water authority may regulate the use of water during certain times in accordance with a plan developed by the Department of Natural Resources.
14. Provides that the provisions of the Act do not apply to water used solely for domestic purposes that is supplied from a well or other immediate source (the Act does not apply to water used for agricultural, farm irrigation, or domestic purposes that is supplied from a well or other immediate source).
15. Amends the Water Use Act of 1983.
16. Requires certain counties to be designated as groundwater emergency restriction areas and groundwater resource assessment areas.

## Conservation Congress Status

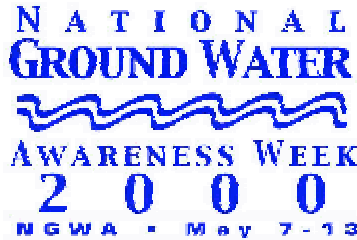
*By Paul M. Kesich, Fermilab National Laboratory*

The Conservation Congress is an outreach program operated by the Illinois Department of Natural Resources. It is the largest and most influential constituent outreach program operated by the Department serving as an advisory body of natural resource stakeholders.

The Illinois Groundwater Association has again been selected to serve as a statewide organization for the fourth Congress. As of this newsletter article, Paul Kesich, current Chair, and Terry Dixon, Treasurer, have attended all three of the caucuses and the work team meeting. The caucus issue relating to groundwater that was addressed at the work team meeting was "Improvement of the protection and management of groundwater quality and quantity." Specific recommendations for this issue included funding and support of well abandonment programs and the Central Great Lakes Geologic Mapping Coalition. The next meeting will be the caucus issue merger meeting that will be held in June. At this June meeting the work team and technical advisory panel members will consider technical comments of issues. It will also amend and finalize recommendations and priorities from both the northern and southern work team meetings in preparation of the Assembly of Delegates in September.

## National Ground Water Awareness Week

The National Ground Water Association (NGWA) is announcing that the National Ground Water Awareness Week will be held May 7-13, 2000. An announcement is available on NGWA's Web site at <http://www.ngwa.org/education/aware.html> You can also call Customer Service at (800) 551/7379 for more information.



## Illinois Groundwater Protection Month Anticipated

*By Harry Hendrickson, Illinois Department of Natural Resources*

Governor George Ryan is anticipated to sign a proclamation declaring May as Groundwater Protection Month in Illinois. As part of activities celebrating Groundwater Protection Month, events are being planned to demonstrate Best Management Practices (BMPs) for protecting water resources.

One of the events will be held on Friday, May 19, 2000, in southwestern Sangamon County near Lowder. At this event, demonstrations will emphasize pest and nutrient best management practices and fuel tank management. Construction procedures, such as sealing abandoned wells and wellhead maintenance, will also be demonstrated.

Attention will be called to the fact that best management practice and fuel tank management will reduce the occurrence of contaminants in groundwater. These practices provide the added benefit of also protecting surface water. For more information about this event, contact Harry Hendrickson at IDNR, 524 S. 2nd St., Springfield, Illinois 62701-1787 at (217) 785-8577.

## New Groundwater Education Initiative

*By Sarah Maynerich, Illinois Department of Natural Resources*

Do you want to improve your teaching about the hidden part of the water cycle? Do you have a clue about what is under your feet? Do you have a groundwater model sitting on a shelf that is not being used?

## New Groundwater Education Initiative (continued)

The ground water education program has begun a new approach since:

- There are now about 500 groundwater flow models (ant farm-style models) out in Illinois schools and nature centers
- Teacher-turnover continues to be high
- Some of the flow models need to be renewed or rebuilt
- Many teachers outside the priority groundwater areas have not had an opportunity to participate in a groundwater model building workshop
- Many teachers attend institutes or science education conferences

Starting this spring, two presentations will be made at most teacher institutes and conferences: "How to Use the Groundwater Model", and "Building or Rebuilding Your Groundwater Model".

While the models can be purchased from national supply houses for \$700 or more, the plexiglass shells are available through the Rivers Project at SIUE for \$165. Sand, gravel and clay are provided at these workshops along with expert help and a vacuum cleaner for those who want to remake their geologic cross sections.

At one workshop, participants will learn hands-on about scientific methods of learning about groundwater and demonstration methods. At the other workshop they will learn what is under their own school or city and then create a model representing this condition.

Current plans for groundwater model building and model use workshops include the following upcoming events (with contact phone numbers):

- March 3, Mazon American Legion Hall, Kendall-Grundy Middle School Groundwater Project (Kendall SWCD— (630) 553-5821 x 3)
- March 10, SIU-Carbondale, Student Center, Science in the South Conference (SIUC—(618) 536-7751)
- April 14, WIU-Macomb, Horrabin Hall, Science Update Conference (Science Education Center— (309) 298-2065)
- October 13, ISU-Bloomington-Normal, Bone Center, Intersection 2000 Conference (DeWitt-Livingston-McLean ROE— (309) 888-5120)
- October 27-28, Pheasant Run, St. Charles, ISTA Annual Conference (ISTA Office-- (217) 244-0173)

Teachers or other professionals who wish to rebuild their models should simply bring them to the workshop; those who need to purchase a shell should contact Prof. Bob Williams at the Rivers Project, 309-650-3788, or [rivers@siue.edu](mailto:rivers@siue.edu) at least two weeks before the conference.

For more information or for help in arranging additional groundwater model workshops, contact Harry Hendrickson, 217-785-8577, or e-mail at [hhendrickson@dnrmail.state.il.us](mailto:hhendrickson@dnrmail.state.il.us)

## IGA Student Research Grants Program

Applications are invited for IGA student research grants for the year 2000-2001. The Illinois Groundwater Association annually awards one to several small grants (typically \$150 - \$300) to help support student research in groundwater in Illinois. Any undergraduate or graduate student registered for full- or part-time study at an accredited college or university in Illinois is eligible to apply. Application forms and guidelines can be obtained from:

Dr Colin Booth  
IGA Grants Coordinator  
Department of Geology and Environmental Geosciences  
Northern Illinois University  
DeKalb, IL 60115  
Phone: 815-753-7933 e-mail: [colin@geol.niu.edu](mailto:colin@geol.niu.edu) fax: (815) 753-1945

This year, the deadline for receipt of completed applications will be Thursday April 27, one week after the IGA Spring meeting.

## GROUNDWATER SCIENCE AWARDS - REQUEST FOR NOMINATIONS

The **Groundwater Science Awards Program** recognizes outstanding science-based achievements in the management, protection, and utilization of groundwater. Any individual or organization, including private and government sectors, involved in the research, education, consulting service, water well construction, or public service is eligible. An award will be presented from two categories

### Research/Scientific Achievement

Presented for outstanding achievements related to groundwater science. Due to the multidisciplinary nature of groundwater science, the award may recognize organizations, agencies, businesses or individuals.

### Public Information/Education

Presented to persons or organizations that have advance understanding of groundwater science through preparing or presenting public information or education materials and programs to inform the public about groundwater issues.

The IGA Awards Committee chooses award recipients. The committee is composed of current membership representing state agencies, academia, the water well industry, and the consulting industry. Awards are presented during the Spring or Fall Meeting. The program is co-sponsored by the Illinois Groundwater Protection Education Program developed under the **Illinois Groundwater Protection Act**.

The awards program was begun in 1993 and has acknowledged the contributions of the following individuals and organizations:

Richard Berg, John Shafer, Joan Bade, Gerald Rosenquist, Protect Our Water and Environmental Resources Project of Rockford	1993
Keros Cartwright, Roger Kanerva, John Foster, Clayton Simonson, Paul Kremmel, DuPage County Health Department	1994
Philip Reed, John Kempton, William Ebert, Harry Hendrickson	1995
Illinois Middle School Groundwater Protection Team, Robert Stain, George Gaffke	1996
Tom Prickett, Rick Cobb, Central Groundwater Protection Planning Committee	1997
Ross Brower, Ellis Sanderson	1998

This year the awards will be presented during our Fall meeting. **Nominations must be received by Friday, May 26, 2000 for consideration.** Further information and nomination forms will be available at the IGA Spring 2000 meeting or they can be obtained by contacting Steve Bennett, IGA Vice Chair at:

Dr. Steve Bennett  
Department of Geology  
Western Illinois University  
1 University Circle  
Macomb, IL 61455  
Ph: (309) 298-1256  
FAX: (309) 298-3399  
E-mail: [SW-Bennett1@wiu.edu](mailto:SW-Bennett1@wiu.edu)

**NOMINATION - 2000 GROUNDWATER SCIENCE AWARDS**

A. Nominee Information

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Firm: \_\_\_\_\_  
Address: \_\_\_\_\_  
Daytime Telephone: ( \_\_\_\_\_ ) \_\_\_\_\_

B. Nominator Information

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Firm: \_\_\_\_\_  
Address: \_\_\_\_\_  
Daytime Telephone: ( \_\_\_\_\_ ) \_\_\_\_\_

C. Award Category:      Achievement \_\_\_\_\_ Information/Education \_\_\_\_\_

D. Describe what the nominee has accomplished to deserve a Groundwater Science Award. Explain the nominee's outstanding, exemplary contributions to groundwater science, and the extension of his/her work for the benefit of others. (Please attach additional sheets if needed.)



## Spring 2000 IGA Conference Registration

Spring Meeting to be held on April 20, 2000 (8:00-9:00 am registration) at Argonne National Laboratory (ANL) and will involve a diverse range of topics including a field trip to a phytoremediation site after lunch. Further information on the directions to ANL and the agenda are available on the IGA web site or contact IGA Chair Paul Kesich. Registration includes a continental breakfast, mid-morning and mid-afternoon snacks, and a box lunch prior to visiting the phytoremediation site. For early registration, send in the form by April 7, 2000 to the address listed below. **Make checks payable to the Illinois Groundwater Association.** Those that register early and are US citizens will have their name listed at the Main Gate. Indicate that you are at ANL for the IGA Spring Meeting. **If you register at the Meeting or you are a non-citizen, ANL may make you sign in at reception center at the Main Gate. HAVE IDENTIFICATION AVAILABLE!** ANL will have Rob Piorkowski (phone #630-252-3455) paged for assistance, if required. Please indicate on your registration form if you are not a US citizen (akin to our Treasurer!!)

COST		NAME
	<u>Early</u> <u>Late</u>	Position: _____
Member \$45	\$55	Employer: _____
Non-Member	\$60    \$70	Address: _____
Student \$15	\$20	_____
Clip & Send registration to:		Phone: _____
Terence W. Dixon		Fax: _____ E-mail: _____
Environ. Sci. & Eng.		
15976 Deer Lane		
Mackinaw, IL 61755		
(309) 359-6005		

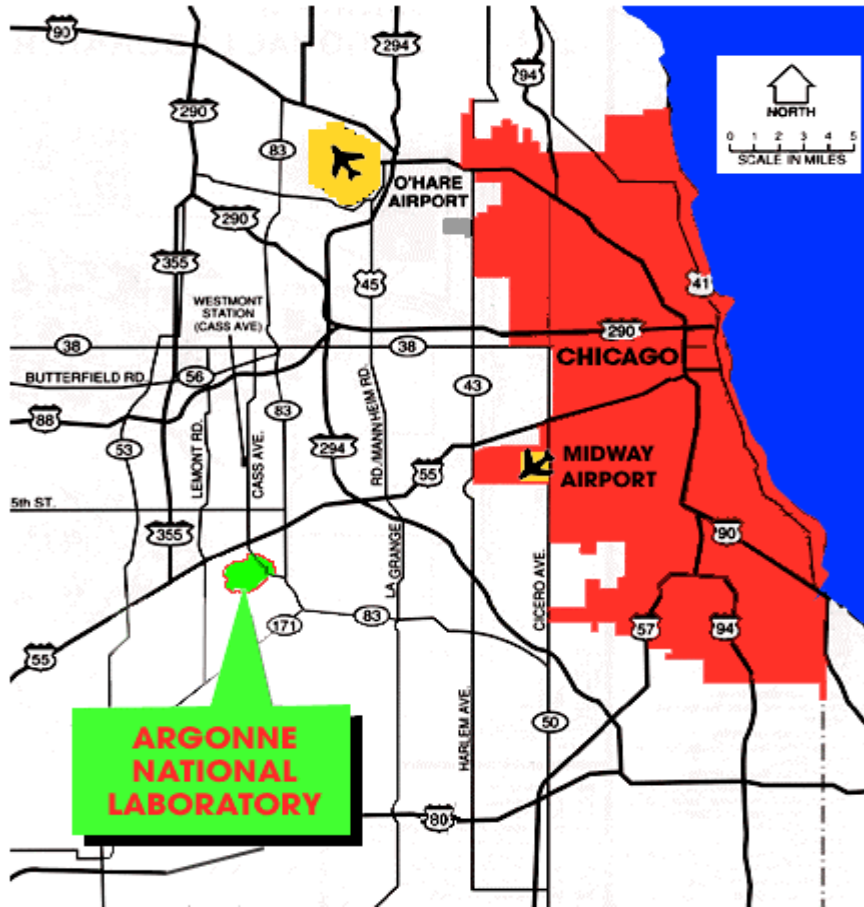
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## Spring 2000 IGA Membership

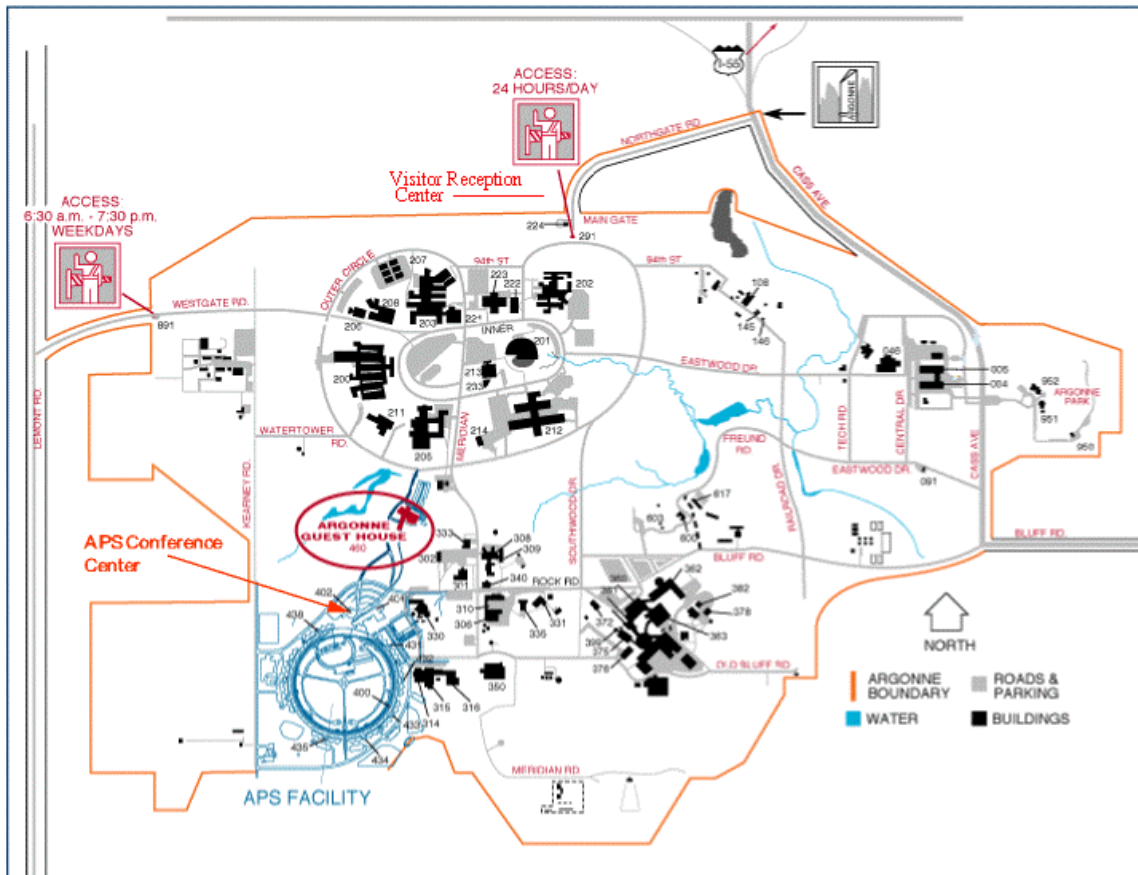
IGA membership dues are \$15. Student membership is \$5. Membership renewal for each calendar year is payable at the time of the Spring Meeting (although last year was slightly unusual due to joint GSA Meeting). Please fill out form below and mail to address listed below. **Make checks payable to the Illinois Groundwater Association.** Membership is available to anyone interested in groundwater resources in Illinois.

COST		NAME
Renew Membership	\$15	Position: _____
New Membership	\$15	Employer: _____
Student	\$5	Address: _____
Clip form & mail to:		Phone: _____ Fax: _____
Terence W. Dixon		E-mail: _____
Environ. Sci. & Eng.		
15976 Deer Lane		
Mackinaw, IL 61755		
(309) 359-6005		

## Location of the Argonne National Laboratory



## Argonne National Laboratory Facility Map



## AGENDA

### ILLINOIS GROUNDWATER ASSOCIATION

#### Spring Meeting, April 20<sup>th</sup>, 2000

- 8:00 – 9:00 Registration
- 9:00 – 9:15 Opening Remarks  
*Paul Kesich, Chair, Fermi National Laboratory*
- 9:15 – 9:45 Evaluation of TCE Remediation by Ground Water Flow and Transport Modeling Under Complex Extraction Well Conditions  
*Dave Hendron and Vedat Batu, GeoSyntec Consultants, Chicago*
- 9:45 - 10:15 Site Hydrogeologic Characterization in Glaciated Areas Using Improved Field Data Analysis Techniques  
*Dan Korth, Earth Tech, Oak Brook*
- 10:15 – 10:30 Break
- 10:30 – 11:00 ANL-East Offsite Seep Project/Water Fall Glen Forest Preserve  
*Peter Lynch, Argonne National Laboratory, Argonne*
- 11:00 – 11:30 The Effect of Deep-Rooted Hybrid Poplars on the Ground Water Flow System at the ANL Phytoremediation Site  
*John Quinn, Argonne National Laboratory, Argonne*
- 11:30 – 12:30 Lunch
- 12:30 – 1:30 Tour of Phytoremediation Site  
*John Quinn, Argonne National Laboratory, Argonne*
- 1:30 – 2:00 The Latest Developments in the Campaign to "Flesh Out" and Finance the Central Great Lakes Geologic Mapping Coalition  
*William Shilts, Illinois State Geologic Survey, Champaign*
- 2:00 – 2:30 Overview of a Statewide Pesticide Monitoring Network  
*William Dey, Illinois State Geologic Survey, Champaign*
- 2:30 – 2:45 Break
- 2:45 – 3:15 TBA  
*Frank Breen, Breen GeoScience*
- 3:15 – 3:45 TBA
- 3:45 Business Meeting and Adjourn**

## CONFERENCES

**March 28-30, 2000.** The Watershed Approach to Improving Water Quality: Fact or Fantasy, an Upper Mississippi River Conference sponsored by the West North Central Region of Soil and Water Conservation Society, LaCrosse, WI.

**March 29, 2000.** Minnesota Department of Health Annual Well Conference, Thunderbird Hotel, Bloomington, MN. Contact: Kim Benson-Johnson, (651)215-0816

**April 6-7, 2000.** Geological Society of America (GSA) 34<sup>th</sup> Annual North Central Section Meeting, Indianapolis, IN. Contact: [www.geosociety.org/sectdiv/Northc/00ncmtg.htm](http://www.geosociety.org/sectdiv/Northc/00ncmtg.htm)

**April 17-19, 2000.** Third International Conference on the Analytic Element Method, Madden's Resort, East Gull Lake, MN. Contact Information: [www.ce.umn.edu/AEMGroundwater](http://www.ce.umn.edu/AEMGroundwater)

**April 20, 2000.** Illinois Groundwater Association Fall Meeting, Argonne National Laboratory, Argonne, Illinois, Contact Terance Dixon, see page 9.

**April 25-26, 2000.** Minnesota Water 2000 Conference: 8th Biennial Conference on Minnesota's critical water issues Minneapolis Convention Center, Contact: Tracy Thomas, Water Resources Center, (612) 625-2282, E-mail: [thoma032@tc.umn.edu](mailto:thoma032@tc.umn.edu) For more Information: [wrc.coafes.umn.edu/water2000/](http://wrc.coafes.umn.edu/water2000/)

**April 25-27, 2000.** National Water Quality Monitoring Conference 2000, Hyatt Regency, Austin, TX. Contact GWPC (405) 516-4972, [jeff@gwpc.site.net](mailto:jeff@gwpc.site.net) or <http://nwqmc.site.net/>

**April 30 - May 4, 2000** Specialty Conference on Water Resources in Extreme Environments, AWRA, Anchorage, Alaska, Douglas L. Kane (907)474-7808, Fax: (907)474-7979, E-Mail: [ffdlk@aurora.alaska.edu](mailto:ffdlk@aurora.alaska.edu)

**May 5, 2000.** Minnesota Ground Water Conference on Water Law in Minnesota, Earle Brown Center, University of Minnesota, St Paul Campus. Contact Jim Lundy, MGWA President, (651) 296-7822 or [jim.lundy@pca.state.mn.us](mailto:jim.lundy@pca.state.mn.us)

**May 9-10, 2000.** A Conference on Fractured Glacial Till sponsored by the Water Management Association of Ohio, National Groundwater Association and U.S. Geological Survey, Water Resources Division. Marriott Inn North, Columbus, Ohio. Contact Jeff de Roche ([jderoche@usgs.gov](mailto:jderoche@usgs.gov)) or Ralph Haefner ([rhaefner@usgs.gov](mailto:rhaefner@usgs.gov)).

**May 19, 2000.** Geotechnology for Urban Renewal and Redevelopment, 8<sup>th</sup> Annual Great Lakes Geotechnical and Geoenvironmental Conference, Wayne State University, Detroit, Michigan, contact Nazli Yesillen at (313) 577-3766, fax (313) 577-3881, or [yesillen@engt.wayne.edu](mailto:yesillen@engt.wayne.edu)

CONFERENCES (continued)

**May 22-25, 2000.** Second International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. Contact: The Conference Group at (800) 783-6338 or [conferencegroup@compuserv.com](mailto:conferencegroup@compuserv.com)

**June 4-7, 2000.** 6<sup>th</sup> International In Situ and On-Site Bioremediation Symposium, San Diego, CA. Contact Conference Office, (614) 424-7604 or [biorecl@battelle.org](mailto:biorecl@battelle.org)

**June 7-8, 2000.** Emerging Issues Conference, Minneapolis, MN, Contact National Ground Water Association at (800)551-7379 or [www.ngwa.org/education/educmenu.html](http://www.ngwa.org/education/educmenu.html)

**July 18-20, 2000.** Illinois Water Supplies: Is the Well Running Dry? Sponsored by the University of Illinois at Urbana-Champaign, Holiday Inn Chicago City Center, Chicago, Illinois. Contact <http://www.sws.uiuc.edu/hilites/conference.asp> , [bsappenf@uiuc.edu](mailto:bsappenf@uiuc.edu), or (217) 333-2881 for more information.

**July 30-August 2, 2000.** ASCE Minneapolis 2000 Joint Conference on Water Resources Engineering and Water Resources Planning and Management, Minneapolis, MN. Contact <http://www.mpls2000.asce.org/>

**August 27-31, 2000,** International Conference on Riparian Ecology and Management in Multi-Land Use Watersheds sponsored by the American Water Resources Association, Portland, Oregon, Dr. Jim Wigington, Email: [pjw@mail.cor.epa.gov](mailto:pjw@mail.cor.epa.gov), Telephone: (541) 754-4341

**September 15-18, 2000.** 2000 Theis Conference: Iron in Ground Water, Jackson Hole, WY. Contact the National Ground Water Association at [www.ngwa.org](http://www.ngwa.org) for more information.

**October 10-14, 2000.** American Institute of Professional Geologists (Wisconsin Section) 37<sup>th</sup> Annual National Convention, Pfister Hotel, Milwaukee, Wisconsin. For more information: [AIPG Annual Meeting - Milwaukee, Wisconsin](#) or contact [aipg@aipg.org](mailto:aipg@aipg.org).

**November 5-8, 2000 .** Atmospheric, Surface and Subsurface Hydrology and Interactions, sponsored by the American Institute of Hydrology, Sheraton Imperial Hotel & Convention Center, Research Triangle Park, North Carolina. Contact the American Institute for Hydrology (AIH) at [www.aihydro.org](http://www.aihydro.org) or (651) 484-8357.

**November 9-18, 2000.** Geological Society of America (GSA) 2000 Annual Meeting, Reno, Nevada - Summit 2000. For more information contact: [GSA Meetings Department](#) (303) 447-2020 or (800) 472-1988, fax (303) 447-0648.

Future GSA Meetings will be occurring in

- 2001 in Boston, Massachusetts November 5-8 and
- 2002 in Denver, Colorado October 27-30

## CONFERENCES (continued)

**November 15-17, 2000.** Petroleum Hydrocarbons and Organic Chemistry in Ground Water: Conference and Exposition, Anaheim, CA, sponsored by the NGWA, contact [www.ngwa.org](http://www.ngwa.org) for more information.

**December 13-16, 2000,** National Ground Water Association Conference and Exposition, Las Vegas, Nevada., contact NGWA at [www.ngwa.org](http://www.ngwa.org) or [questions@ngwa.org](mailto:questions@ngwa.org), (800) 551-7379 or (614) 898-7791, or FAX (614) 898-7786, for details

**Darcy Lecturer Schedule Complete For 2000:** With six lectures having been completed in January, Dr. James Hendry has designated the educational institutions and organization for his presentation: "Transport and Geochemical Controls on Solutes in Clay Aquitards". For a complete schedule go to: <http://www.ngwa.org/membership/99darcy.html>  
Some of the nearby Darcy Lecturer locations are:

- **April 7, 2000.** University of Wisconsin, contact Jean Bahr at (608) 262-5513
- **April 13, 2000.** University of Michigan, contact Larry Lemke (313) 708-0399
- **April 14, 2000.** Ohio State University, contact Frank Schwartz (614) 292-6196

**First McEllhiney Lecturer Announced:** Dr. Hans-Olaf Pfannkuch has been selected as the inaugural William McEllhiney Lecturer. His presentation "Pump Tests for Practical People" will debut at the 2000 NGWA national Convention and Exposition in December. For more information go to: <http://www.ngwa.org/membership/febupd.html> - [mcellhiney](http://www.ngwa.org/membership/febupd.html)

## EDUCATION AND TRAINING

These course listings are provided for our reader's information and inclusion in this Newsletter does not constitute an endorsement by the IGA.

Sponsored by the **National Ground Water Association**. More information contact the NGWA at [questions@ngwa.org](mailto:questions@ngwa.org), or [www.ngwa.org/education/educmenu.html](http://www.ngwa.org/education/educmenu.html) (800) 551-7379 or (614) 898-7791, or FAX (614) 898-7786 for details. Some of the available courses are listed below:

- April 3-4, 2000. Applications of Health Risk Assessment for Environmental Decision Making, New Orleans, LA
- April 5-7, 2000. Understanding Migration, Assessment and Remediation of Non-Aqueous Phase Liquids (LNAPLs and DNAPLs), New Orleans, LA
- April 11-14, 2000. PC Applications in Risk Assessment, Remediation, Modeling, and GIS, Orlando, FL
- May 22-25, 2000. Geochemical Modeling of Aqueous Systems, Dallas, TX
- May 23-24, 2000. Screening Modeling for Natural Attenuation with Bioscreen, Biochlor and the NA Tool Kit, Dallas, TX
- June 5-6, 2000. Quantitative Risk Based Decision Making, Hyatt Regency Minneapolis, MN

## EDUCATION AND TRAINING (continued)

- June 8-10, 2000. Building Blocks for the Next Century: Business Strategies for Success, Hyatt Regency Minneapolis, MN
- June 6-8, 2000. Principles of Ground Water, Minneapolis, MN.
- June 21-23, 2000. Geostatistics and the Data Quality Objectives Process for Environmental Remediation, San Diego, CA.
- June 22-23, 2000. Geophysics for Environmental and Groundwater Applications. San Diego, CA
- September 19-20. Well Rehabilitation, Milwaukee, Wisconsin
- September 21-2. Design and Construction of Wells, Milwaukee, Wisconsin

**June 22-23, 2000.** Advances in Slug Testing for Improved Site Characterization: New Concepts, Field Techniques & Data Analysis. Midwest GeoSciences Group. University of Texas at Arlington. Contact Dan Kelleher (612) 551-2435 or [info@midwestgeo.com](mailto:info@midwestgeo.com) .

**October 5-7, 2000.** Advances in Site Characterization for Environmental and Engineering Projects at Glaciated Sites, Minneapolis-St Paul Area, Midwest Geosciences Group  
Contact: Dan Kelleher: (612)551-2435, [info@midwestgeo.com](mailto:info@midwestgeo.com)

**Sponsored by Nielsen Environmental Field School**, contact (888) 965-5026 or [Nielsenfieldschool@juno.com](mailto:Nielsenfieldschool@juno.com) for more information

**Sponsored by Princeton**, contact (813) 964-0800, [www.princeton-groundwater.com](http://www.princeton-groundwater.com), or [info@princeton-groundwater.com](mailto:info@princeton-groundwater.com)

- April 3-7, 2000. Princeton Remediation Course, Las Vegas, NV

**Sponsored by American Institute of Hydrology**, contact (612) 484-8169, [www.aihydro.org](http://www.aihydro.org), or [aihydro@aol.com](mailto:aihydro@aol.com) for more information

## TIDBITS

Here is some information that crossed my desk that may be of interest to our valued IGA members. Links to remediation web sites, free stuff, and jobs are located at <http://www.geologicresources.com/products.html> and have been provided by Donald Bruel ([dhb@geologicresources.com](mailto:dhb@geologicresources.com)) of Geologic Resources.



## Illinois Groundwater Association Officers and Volunteers

### CHAIR

Paul Kesich  
Fermilab  
P.O. Box 500, MS119  
Wilson Street  
Batavia, IL 60510  
(630) 840-4495 Fax (630) 840-3390  
[pkesich@fnal.gov](mailto:pkesich@fnal.gov)

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