

From the Chair

I cannot believe how fast the year is progressing. At this time I want to tell all of you how much I appreciate and enjoy serving the Illinois Groundwater Association. My special appreciation goes to all the board members. Susie Dodd, Secretary, with her vast reserve of energy, set up and made the arrangements for both the spring and fall meetings. Through the gracious help of Susie Dodd, last year's treasurer, Terry Dixon made a smooth transition to become the new treasurer. Terry also represents the Association as an alternate delegate to the Conservation Congress and has helped to plan the fall meeting. As a tremendous accomplishment, Steve Bennett (IGA Director) developed a permanent IGA display that was first presented at the spring North-Central Section GSA meeting in Champaign. Dr. Colin Booth superbly handled the student grant award program for this year. Paul Kesich, Vice Chair, is handling the Groundwater Science Awards and is also serving as the IGA delegate to the Conservation Congress. My gratitude is also extended to past chairs Dr. Steve Esling and Dave Larson who gave me their patient help, advice and encouragement.

Erik Spande and Randy Locke - I cannot say too much about these fine gentlemen. Erik Spande has served as our famed and creative Editor for the past eight years. Randy Locke has dutifully and diligently served as the Association's Web Master for a number of years. Many thanks to both of you.

As you can see, the newsletter is being made available to you through the IGA web site. This will considerably reduce copying and mailing fees. Hopefully, most of you may like the idea. Some of you will not. A reference to the newsletter being published on the IGA web site is included in the fall meeting announcement and agenda. I am sure that most of you have access to the Internet. If not, please let us know. Let's get on the information super highway and give it a try. Any ideas or suggestions? Thanks again to Erik and Randy for accepting this new task.

Amendments to the Illinois Water Well Construction and Pump Installation Codes

Proposed amendments to the Illinois Water Well Construction were first published in the Illinois Register on July 7, 1999. The more significant of these amendments pertain to the grouting of drilled water wells, and the establishment of procedures to follow when abandoned dug and bored wells are sealed.

A Survey of the Quality of Water Drawn from Domestic Wells in Nine Midwestern States

A report on the quality of water from private wells was released by the Centers for Disease Control and Prevention. The Survey was conducted in May to November of 1994 by state health and environmental departments of Illinois, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, and Wisconsin with the assistance from the Centers for Disease Control and Prevention (CDC).

Bacteria and chemicals associated with poor water quality were measured in water samples from 5,520 private water wells. Coliform bacteria, which indicates contamination from soil or surface water, were present in 41.3% and E. coli, which indicates contamination from human or animal waste, in 11.1% of the samples. A total of 843 private water wells were sampled in Illinois. Coliform bacteria and E. coli were detected in some of these wells and the detection percentages were grouped by well type:

- All wells - 44% tested positive for coliform bacteria and 16% tested positive for E. coli
- Dug wells - coliform bacteria 86%, E. coli 49%
- Buried slab wells - coliform bacteria 72%, E. coli 15%
- Bored wells - coliform bacteria 65%, E. coli 12%

Nitrate was elevated (exceeded 10 milligrams per liter) in 13.4% of the samples in the nine state study area and 15.2% of the samples in Illinois. Atrazine and related chemicals were elevated in 0.2% of the samples. In Illinois, atrazine did not exceed the maximum contaminant level (MCL); alachlor exceeded the MCL in only one sample.

Water samples from households with wells older than 25 years, shallower than 100 feet, or greater than six inches in diameter were more likely to have contaminants than samples from households with a newer, deeper, and smaller-diameter drilled or driven well. Water samples from households with bored or dug wells were 10 to 15 times more likely to contain coliform bacteria or E. coli than were samples from households with drilled or driven wells. The application of pesticides and fertilizers near the well were associated with coliform bacteria and E. coli, and high nitrate levels in the water samples.

Wells with pitless adapters and backflow devices had up to 20% fewer contaminated samples than wells lacking these devices. Samples from wells with a crack or hole in the well casing were up to 7 times more likely to be contaminated than were samples from wells with intact casings.

Of the 15,987 people who drank water from these wells, 2.9% reported having diarrhea during the 2 weeks prior to the collection of water samples for this survey. People who drank this water were no more likely to have diarrhea than people who drink water without these contaminants.

Copies of the report can be obtained by contacting the Illinois Department of Public Health, Division of Environmental Health, 525 W. Jefferson St., Springfield, IL 62761, telephone 217-782-5830, TDD (hearing impaired use only) 800-547-0466.

Source Water Assessments of Non-Community Public Water Supplies

Required by amendments to the State Drinking Water Act, the Illinois Department of Public Health (IDPH) is conducting source water assessments of 5,000 non-community public water systems. Approximately 6,000 water wells and 38 surface water sources serve as the supplies of water to these systems. These wells and surface supplies are being identified and evaluated as to their vulnerability to potential contamination from sources such as sewage systems, abandoned wells, buried fuel tanks and chemical storage areas. The vulnerability assessments conducted in the past were confined to an area within a 200-foot radius around the well. This new initiative expands that radius to 1,000 feet. The location of the wells and any potential source of contamination within this radius will be identified in a statewide GIS system.

This project brings together resources from Illinois Department of Transportation (IDOT), Illinois Environmental Protection Agency (IEPA), local health departments, and IDPH. IDOT is providing maps of the area surrounding each supply and IEPA will enter the data into a GIS data system. Beginning in 1998, the project will take two years to complete. Federal funding is supporting this effort. Local health departments are being compensated from this fund for conducting the assessments. IDPH regional staff is conducting assessments at supplies in facilities licensed by the Department and in counties where there are no local health departments. Non-community public water systems in Illinois serve a population of approximately 740,000 citizens. These are water systems that serve 25 or more people for at least 60 days per year. Examples are systems that serve schools, restaurants, factories, power generating stations, office buildings, campgrounds, state parks and rest stops, etc.

Water Well Permits Issued and Water Wells Sealed: 1988-1998

Do you have trouble sleeping at night wondering how many water well permits have been issued since the Groundwater Protection Act became effective on January 1, 1988? Now you can be in the know and rest at ease. On that date, the Illinois Department of Public Health began issuing permits to construct water wells and approving local health departments to conduct the Potable Water Program. Since that time the number of permits issued annually have ranged from 3,291 to 9,300 with an average of 7,235. The highest number of permits, approximately 9,300, were issued during 1989 and 1990. This corresponds to the drought that occurred during that same period. For the last eight years, the number of permits issued has leveled off, ranging from 6,754 to 7,766. Today, the Department and 83 local health departments issue water well permits.

During the past 11 years, the number of water wells sealed each year have ranged from 1,167 to 2,915 with an average of 2,043. The highest number of wells sealed occurred during 1991. The next two highest years occurred during 1992 and 1994. Extending public water supplies and groundwater education attribute to some extent the higher number of wells sealed from 1991 to 1995. The number has been declining somewhat since 1995.

The Shining Stars in Groundwater Protection

By Sarah Maynerich, Illinois Department of Natural Resources

The Illinois Groundwater Education Program developed the Shining Star designation to honor local governments exhibiting exemplary work in groundwater protection and education. Congratulations to the three 1999 awardees: East Dundee, Marengo, and Tazewell County! The work of the Shining Stars was highlighted at the Illinois Municipal League's 86th annual conference on Sept. 17-18, 1999. Each of the Shining Stars had exhibits at the conference to help others learn from their innovative work.

About 75% of Illinois communities use groundwater as their source of drinking water. Pumps draw the water out of wells. Local governments are reducing the potential for well contamination through careful planning. A typical starting point is the completion of delineated groundwater capture maps. These maps estimate the capture zone for a well projecting a time of travel of five or more years. Capture zone delineations typically are done by the Illinois Environmental Protection Agency (IEPA), the Illinois State Water Survey, private consultants, or hydrogeology graduate students supported by IEPA. The 1999 Shining Stars have delineated capture zones and each has developed an innovative approach for dealing with potential pollution sources.

East Dundee, in Kane County, is a member of the Northeastern Groundwater Protection Planning Committee, which was established in 1995. The Village of East Dundee has three public water supply wells serving a population of 3,100. East Dundee had contacted and trained volunteers to accomplish some of its groundwater protection efforts. In 1997, Mr. Gary Swick's Environmental Science Class at Dundee-Crown High School and Retired Senior Volunteers of McHenry/Kane Counties surveyed for potential routes and sources of contamination in the recharge areas of the wells. They reported their findings to the Village Board. Thirty potential sources were found. The students made a video of the project and their recommendations. The Utility Board developed a plan of action from the prior work of the students and volunteers.

Efforts were also conducted to promote education and support regulatory control. On June 7, 1999, a local Groundwater Protection Ordinance was adopted. Tom Warner, Chief Operator, said, "The Village of East Dundee, in order to insure that its residents will continue to receive drinking water of the highest quality, has participated in the Groundwater Guardian Program by passing an ordinance with strict groundwater protection enforcement provisions." These communities also have signs posted at the intersections of the state highways and well recharge areas.

Marengo, in McHenry County, is one of the communities in the Northern Groundwater Protection Planning Region. The Village of Marengo has two shallow active public water supply wells serving a population of 4,768. Soon after the capture zone map was published in 1995, Marengo developed a color brochure showing the capture zone and existing zoning.

Along with being designated a Shining Star, Marengo has been designated a Groundwater Guardian Community by the National Groundwater Foundation. The city was also the first in the state to purchase road signs for motorists entering and leaving the wellhead protection area.

A Groundwater Protection Team was formed in 1996, which evaluates efforts to protect and manage the recharge areas. The team consists of representatives from several sectors of the community. The team has held educational workshops in the community and sponsored a Pollution Prevention Intern. An intern worked with Nissan-Barretts, an industrial company in Marengo, to conduct waste minimization assessments. The company reduced their waste oil, a

potential threat to groundwater, and saved money in the process. An overlay zoning district requiring special permits for locating or expanding commercial/industrial uses in the recharge area is another achievement.

Tazewell County is one of the local governments honored as a Shining Star and will also be honored at the Illinois Association of County Officials' Annual Meeting in November. A key accomplishment was the adoption of a County Groundwater Protection Ordinance on April 29, 1998. The City of Pekin had adopted a Groundwater Protection Ordinance in 1995 and was honored as a Shining Star in 1997. It was vital to adopt a county ordinance because part of the recharge area for Pekin's community wells is outside of the City's boundaries. The ordinance establishes three zones regulating land uses to protect the water supplies. Those wishing to locate a new facility using potential contaminants within these zones must apply for a permit. The ordinance can be found on the Central Region Groundwater Protection Committee's web site at <http://www.dpc.net/~crgw>. In order to educate the public about the ordinance, a summary and a map detailing all of the groundwater protection areas was developed. As additional cities in Tazewell County discover a need for protection outside their boundaries, the county ordinance can be amended to reflect these areas.

The Tazewell County Health Department has sponsored several educational events, FarmAsyst/HomeACRE workshops, a student stewardship event, and ag chemical screening for private well owners. It has also proactively sought information on groundwater supplies and supported research on aquifer mapping. Tazewell County has used several educational initiatives to prevent groundwater contamination just this year. An IEPA Pollution Prevention Intern, Rebecca Forbeck, worked in Tazewell County over the summer to conduct waste minimization assessments for local businesses. In addition, Ms. Sherry Spurlock's chemistry class stenciled storm water drains in Pekin with "Dump no Waste, Drains into our Illinois River" as an effort to preserve water quality.

Each Shining Star has used a cooperative effort involving many parties and public participation to implement a successful and ongoing groundwater protection program. For additional information on groundwater education, contact Harry Hendrickson, at the Illinois Department of Natural Resources, 524 S. 2nd St., Springfield, Illinois, 62701-1787.

1999 IGA Student Grant Award Recipient Announced

The IGA is pleased to announce that its 1999 student grant recipient is Craig Perciante, an undergraduate from Wheaton College, for a project entitled: Hydrogeologic Characterization of the West Branch Fen of DuPage County. Craig's supervisor is Dr. Michael Guebert. Craig will be giving a talk on his research project at the October 28th, 1999 Fall IGA meeting.

The Illinois Groundwater Association awards several small grants (typically \$100-\$300) annually to help support student research into groundwater in Illinois. Applications will be evaluated on the basis of scientific merit, capability of the applicant, and reasonableness of the requested funding relative to the proposed work. Any undergraduate or graduate student registered for full- or part-time study at an accredited college or university in Illinois is eligible to apply. Grant winners are requested to present the findings of their research at an IGA meeting.

Student Grant Award (continued)

Application guidelines and forms can be obtained from:

Dr. Colin Booth

Department of Geology and Environmental Geosciences

Northern Illinois University

DeKalb, Illinois 60115

colin@geol.niu.edu phone: (815) 753-7933 fax: (815) 753-1945

Completed applications are typically received after the Spring IGA Meeting.

CONSERVATION CONGRESS IV

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.

Delegates for the Conservation Congress assemble in the Illinois State House every three years to represent the views of the State's diverse constituency and make recommendations to the Department of Natural Resources and policy makers of Illinois. The recommendations that have come from past congresses have vastly improved state government and its stewardship of our natural resources as well as enabled the Department to make informed decisions which reflect the needs and interests of conservation organizations in Illinois.

Members of the Conservation Congress are representatives from recognized organizations in Illinois including businesses, not-for-profit organizations and other groups committed to protection, conservation and enjoyment of Illinois' natural resources. From this membership, 118 representatives make up the Assembly of Delegates who vote on proposals put forth by the members. Seventy of these delegates are elected from regional organizations to represent regional interests and the remaining 48 members are selected from organizations entitled to appoint statewide delegates and alternates. Statewide delegates are selected based on the degree to which the organization's activities contribute to the mission of the Congress, the size (membership) of the organization, participation in past Congresses, and to ensure that a diversity of conservation interests are represented at the Assembly of Delegates.

The most important part of the Conservation Congress is the regional caucus process. These are organized public meetings from which all Conservation Congress recommendations must arise. The caucuses are where issues are identified and prioritized and possible solutions developed. Regional delegates are also elected at these caucuses.

Constituent groups select a representative and an alternate to attend regional caucuses where general issues are introduced. Caucus issues, challenges and solutions are discussed and prioritized before advancing to one of six work teams, composed of statewide and regional delegates and Conservation Congress members from the regional caucus. Work teams then refine, consolidate and prioritize the issues, challenges and solutions to clarify and strengthen them and begin to develop recommendations which are assigned to committees that are formed to reflect the general issues.

Recommendations developed through the caucus and work team process are taken to the Assembly of Delegates in the Illinois State House where they are approved, modified or tabled during two days of deliberations and testimony. On the third day of the Assembly, the delegates vote to pass or fail each committee recommendation. The approved recommendations are presented to the policy makers of Illinois for possible implementation.

The Illinois Groundwater Association has again been selected to serve as a statewide organization for the fourth Congress. As of this newsletter article, Terry Dixon and myself have attended two caucuses. At the first caucus, the agenda and ground rules were reviewed, introductions of the Conservation Congress Executive Staff and IDNR Staff were made and the constituents introduced themselves and the organizations they represented. The training manual was reviewed and questions answered to ensure competence of participants in the Congress process. Breakout groups were then formed to begin the process of brainstorming issues and ideas. The second caucus took the issues and ideas developed during the first caucus and consolidated and prioritized them down to a reasonable number. The third caucus will take the prioritized issues, challenges and solutions developed during the second caucus for fine-tuning and to identify additional research needs for work teams to consider. Regional delegates will also be elected during the third caucus and the need for subsequent caucuses will also be addressed.

Announcing: IGA OFFICER CANDIDATES FOR 2000

CANDIDATE FOR CHAIR OF IGA: MR. PAUL M. KESICH is currently an Environmental Compliance Coordinator and Safety Engineer at Fermi National Accelerator Laboratory in Batavia, Illinois. He has worked in the area of public water supplies and environmental compliance and sampling for 13 years. He holds a BS in Environmental Biology/Zoology from Eastern Illinois University, a Graduate Certificate in Environmental Geosciences and a MS in Geology from Northern Illinois University. His current job assignments include regulatory compliance with Federal, State and local regulations related to groundwater issues for the Department of Energy facility. His work at Fermilab currently includes studying the geology and hydrogeology of glacial deposits at the lab as they relate to radionuclide production and migration. Paul has been a member of IGA since 1992 and served the IGA Board as a Director during 1998 and Vice-Chairman during 1999. He is currently representing IGA as the statewide delegate to the 2000 Conservation Congress. In addition to IGA, Paul is also a member of the National Ground Water Association, Geological Society of America and the Department of Energy Groundwater Protection Workgroup.

CANDIDATE FOR VICE-CHAIR OF IGA: DR. STEVE BENNETT received his B.S. in Geology in 1988 from University of Northern Iowa, his M.S. in Geology in 1990 from Indiana University, and his Ph.D. in Geology in 1994 from Indiana University. After completing his Ph.D. he became an Assistant Professor in the Department of Geology at Western Illinois University in August of 1994. Dr. Bennett teaches courses in introductory physical geology, mineralogy, oceanography, hydrogeology, and at the Western Illinois University summer geology field camp.

CANDIDATE FOR DIRECTOR OF IGA: MR. ROBERT E. PIORKOWSKI is currently an environmental Scientist at Argonne National Laboratory in Argonne, Illinois. He has worked in the area of environmental characterization and sampling for 10 years. He holds a B.A. in

Chemistry from Trinity Christian College, a Graduate Certificate in Environmental Geosciences from Northern Illinois University, and a M.S. in Project Management from Keller Graduate School of Management. His current job assignments include regulatory compliance monitoring of groundwater and surface water at ANL site, and studying migration of contaminants related to past practices at the laboratory. Rob has been a member of IGA since 1991 and is also a member of the National Groundwater Association.

CANDIDATE FOR DIRECTOR OF IGA: MR. LARRY LYONS is the vice-president of Lyons Well Drilling Company, Incorporated; a 115 year old company in the year 2000. He is a licensed well driller and pump installer in Illinois, a licensed pump installer in Wisconsin and has been licensed to drill in Iowa. Currently he is a member of the Illinois Licensing and Regulations Board in Springfield. As a board member, he works with Illinois Department of Public Health formulating rules and regulations dealing with the licensing of well drillers and pump installers. A 20-year member of this state association, he currently serves as a director. He is certified by the National Ground Water Association as one of 60 Master Ground Water Contractors in the world and is presently serving on the Convention Committee and as chairman of Marketing and Public Relations committee of the National Ground Water Association. He has been elected to the Jo Daviess County Board and is the past chairman of the Law Enforcement Committee. Mr. Lyons was born and raised in the business, which has offered him added knowledge and experience associated with well drilling. After having spent 10 years in the ground water profession in such diverse locales as Florida and Hawaii, he returned to Stockton and joined Lyons Well Drilling Company in 1976. Thirty years ago he was involved in monitoring wells and ground water recharge wells in Hawaii, long before these terms became a house hold words. He then spent some time in Florida putting in monitoring wells for the Water Survey and was involved in installing three 2700 ft injection wells for West Palm Beach on a zero pollution job site. Two years ago he was invited to Egypt to consult on drilling 4000 ft well with reverse circulation. Lyons Well Drilling is a small company involved in providing well drilling to homeowners, agricultural, industrial and municipal customers. Lyons Well Drilling also provides pump installation and repair for larger commercial and municipal systems. Mr. Lyons feels he can bring to the board his well drilling experience and knowledge of legislation, and regulations.

CANDIDATE FOR SECRETARY OF IGA: MS. SUSIE DODD has been at the Illinois State Water Survey as an Assistant Supportive Scientist for 10 years, working directly with the Illinois groundwater professionals, consulting and engineering firms, private citizens, and other Illinois State agencies. Her responsibilities at the ISWS involve research and dissemination of information from well drilling and water chemistry records and to represent the ISWS and its public service role at various conferences and exhibitions. Susie is currently serving as the Secretary of the IGA.

CANDIDATE FOR TREASURER OF IGA: MR. TERENCE W. DIXON received a M.S. in Geology from Kansas State University in 1994. He is the senior environmental guru with Maurer-Stutz, Inc, of Peoria, Illinois. Mr. Dixon is a Licensed Professional Geologist with the State of Illinois, and recently has been elected by the Illinois Environmental Protection Agency to serve on the Groundwater Protection Committee-Central Planning Region. Areas of technical expertise include: Phase II environmental investigations; Phase III remedial design and implementation including enhanced intrinsic bioremediation, slurry wall/hydraulic control, multiphase extraction, natural attenuation and risk-based analysis; groundwater/contaminant transport modeling utilizing Visual Modflow for particle tracking and capture-zone analysis. Mr. Dixon is currently serving as the IGA Treasurer.

Fall 1999 Illinois Groundwater Association Conference Registration

Please send this form for each individual who will be attending the October **28th Fall 1999 IGA Meeting** at the **Octave Chanute Aerospace Museum in Rantoul, Illinois**. The registration includes a continental breakfast, a tour of the museum, lunch, and an afternoon snack. Send in the form by October 25th to the address listed below, e-mail to sdodd@sws.uiuc.edu, or fax to (217) 244-0777. Make checks payable to the Illinois Groundwater Association, or pay at the door if registering by e-mail or fax. For those that are traveling and need accommodations for the night, reservations can be made at the Fanmarker Inn, Rantoul, Illinois at (217) 893-1234. The Fanmarker Inn is located on the old Chanute Air Force Base and is close to the Aerospace Museum.

IGA Meeting Fees

<u>Registration</u>	
Member	\$45
Non-member	\$55
Student	\$15

Clip this Form and Send To:

Susie Dodd
c/o Illinois State Water Survey
2204 Griffith Dr.
Champaign, Illinois 61820

IGA Fall Conference Registration Form

Name _____
Position _____
Employer _____
Address _____

Phone _____ Fax _____
E-mail _____

IGA Membership dues are \$15. Membership renewal for each calendar year is payable at the time of each Spring Meeting. Please fill out the form below and mail to **Susie Dodd** at the address listed below. Membership is available to anyone interested in the groundwater resources in Illinois. Student membership is \$5. Checks should be made payable to the **Illinois Groundwater Association**.

IGA 1999 Membership Dues

Renew Membership	\$15
New Membership	\$15
Student	\$5

Clip this Form and Send To:

Susie Dodd
c/o Illinois State Water Survey
2204 Griffith Dr.
Champaign, Illinois 61820

IGA 1999 Registration Form

Name _____
Position _____
Employer _____
Address _____

Phone _____ Fax _____
E-mail _____

AGENDA

ILLINOIS GROUNDWATER ASSOCIATION

Fall Meeting, October 28th, 1999
Octave Chanute Aerospace Museum
1011 Pacesetter Drive
Rantoul, Illinois 61866-0949

- 8:00 – 8:50 Registration
- 8:50 – 9:00 Welcome: *Jerry Dalsin, Illinois Department of Public Health*
- 9:00 – 9:20 Geochemical Modification of Surface Water to Remediate Extremely Alkaline Ground-Water Discharges
George Roadcap, Illinois State Water Survey
- 9:20 - 9:45 Remedial Investigation of the Chanute Airforce Base
Al Hardesty, Jacobs Engineers
- 9:45 – 10:00 Break
- 10:00 – 10:20 Open Groundwater Application for Educational & Commercial Facilities
Kirk Meschner, CM Engineering
- 10:20 – 10:45 Ground-Water/Surface Water Development at Sand Lake, Mason County
Kenneth J. Hlinka, Illinois State Water Survey
- 10:45 – 11:25 County by County Water Development
Gary Blumestock, Illinois Rural Water Association
- 11:30 – 12:45 Lunch and Tour of the Museum
- 12:45 – 1:05 Mahomet Aquifer Consortium: A Model for Regional Aquifer Management
Al Wehrmann, Illinois State Water Survey
- 1:05 – 1:25 A Regional Groundwater Supply Study: Genesis of Exodus
Bob Kohlhase, Farnsworth and Wylie
- 1:25 – 1:40 Hydraulic Conductivity Influence on Utilization of Illinois Tiered Approach to Corrective Action Objectives
Terence W. Dixon, Maurer-Stutz, Inc.
- 1:40 – 2:00 The Groundwater Advisory Council & Regional Groundwater Protection Committee Activities Under the Illinois Groundwater Protection Act
Bill Compton, Groundwater Advisory Council
- 2:00 - 2:15 Break
- 2:15 - 2:35 Brownfields Initiative and How It Relates to the Leaking Underground Storage Tank Program and the Site Remediation Program
Ken Page, Illinois Environmental Protection Agency
- 2:35 - 2:55 A Review of Northeastern Illinois Hydrogeology and Possible Directions

For Future Studies
Scott Meyer, Illinois State Water Survey
- 2:55 - 3:45 Business Meeting and Presentations
- 3:45 End

CONFERENCES

October 2-9, 1999, American Institute of Professional Geologists Annual Meeting, Anchorage, Alaska. Contact aipg@aipg.org, or www.aipg.org for more information.

October 7-8, 1999, NGWA Midwestern Focus Ground Water Conference, Chicago, Illinois, contact NGWA at www.ngwa.org or questions@ngwa.org, (800) 551-7379 or (614) 898-7791, or FAX (614) 898-7786, for details

October 13-15, 1999, 44th Annual Midwest Ground Water Conference, Ramada Inn, St. Paul, Minnesota. Contact Sarah Tufford at (651) 297-2431, www.dnr.state.us/waters/conference/mgwchchrom2.html, or sarah.tufford@dnr.state.mn.us for more information

October 25-28, 1999, 1999 Geological Society of America Annual Meeting, Denver, Colorado. Contact (303) 447-2020 or www.geosociety.org for more information.

October 28, 1999, Illinois Groundwater Association Fall Meeting, Octave Chanute Aerospace Museum in Rantoul, Illinois, Contact Susie Dodd at (217) 333-9043

November 4, 1999, Iowa Ground Water Association fall groundwater conference, Coralville, Iowa, Call 319-351-5049 for a form or to register.

November 7-10, 1999. Fourth USA/CIS Joint Conference on Environmental Hydrology and Hydrogeology: Hydrologic Issues for the 21st Century: Ecology, Environment and Human Health. San Francisco, California. Contact the American Institute for Hydrology (AIH) at www.aihydro.org or (651) 484-8357.

November 16-17, 1999, American Groundwater Trust Conference, Des Moines, Iowa, Call Brent Parker at Iowa Department of Natural Resources for more information.

November 17-19, 1999, The 1999 Petroleum Hydrocarbons and Organic Chemicals in Ground Water, Houston, Texas, Sponsored by the American Petroleum Institute and the National Ground Water Association, for more information contact www.ngwa.org, e-mail csr@ngwa.org, or call (800) 551-7379.

December 3-6, 1999, National Ground Water Association Annual Convention and Exposition. Nashville, Tennessee. Contact NGWA at www.ngwa.org or questions@ngwa.org, (800) 551-7379 or (614) 898-7791, or FAX (614) 898-7786, for details

December 5-9, 1999, Annual Conference on Watershed Management to Protect Declining Species, Seattle, Washington, Questions may be directed to either Rod Sakrison rsak461@ecy.wa.gov or Pete Sturtevant psturtev@ch2m.com. Additional information at the Washington Section's home page at: <http://earth.golder.com/waawra/>.

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

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

August 27-31, 2000, International Conference on Riparian Ecology and Management in Multi-Land Use Watersheds, [Portland, Oregon](#), AWRA, Dr. Jim Wigington, Email: pjw@mail.cor.epa.gov, Telephone: (541) 754-4341

October 11-15, 2000. American Institute of Professional Geologists Annual Meeting, Milwaukee, Wisconsin. Contact aipg@aipg.org, or www.aipg.org for more information.

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.

October 8, 1999. Advances in Characterizing Ground Water Movement through Glacial Sequences, Ohio State University. Midwest Geosciences Group Workshops. Contact midwestgeosciencesgroup@juno.com or (612) 551-2435 for more information.

October 5-6, 1999, Competent Person Training - More information and registration forms are available by calling 815-246-7077 or on the ISAWWA website at <http://www.isawwa.com>

Sponsored by the National Ground Water Association. More information contact the NGWA at questions@ngwa.org, (800) 551-7379 or (614) 898-7791, or FAX (614) 898-7786 for details

October 5-6, 1999. Assessment and Management of MTBE Impacted Sites, Chicago, IL

October 5-6, 1999. Natural Attenuation for Remediation of Contaminated Sites, Chicago, IL

November 1-2, 1999. Fundamentals of Ground Water Geochemistry, Minneapolis, MN

November 3-5, 1999. Applications of Ground Water Geochemistry, Minneapolis, MN

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

Sponsored by Princeton, contact (813) 964-0800, www.princeton-groundwater.com, or info@princeton-groundwater.com

Sponsored by American Institute of Hydrology, contact (612) 484-8169, www.aihydro.org, or aihydro@aol.com for more information

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