



# Illinois Groundwater Association

## 2013 Newsletter

Advancing Groundwater Knowledge since 1983

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## From The Chair

I must say first that I am proud to be chair of our organization for the 30<sup>th</sup> anniversary! Looking back through the newsletters and agendas from the last 15 years I see the names and faces of those who have come before me. The fact that I regularly see many of these same folks at our meetings is a tribute to their dedication to Illinois groundwater issues and to our community.



I was introduced to the IGA in 2008, as a student member, while completing my Master's degree at ISU. I served as the student director in 2009 and became a

first year director in 2011. Having lived out of state from 1998 to 2006, I found the semi-annual meetings to be an excellent way to familiarize myself with Illinois groundwater issues and with those who would become my colleagues in the industry. I feel that the IGA has been an integral part of my career as a groundwater professional in Illinois. Following my interview with PDC in 2009, I found that one of the folks interviewing me came to the IGA meeting where I presented the findings of my graduate research. As we all know, having that sort of familiarity in an interview is helpful and can give you an edge over other candidates! During my time with PDC I have repeatedly found myself calling fellow IGA members and presenters to address and discuss topics pertaining to my work. If you are new to the groundwater industry or if you are just looking to expand your awareness of what's going on in our state, membership and attendance at meetings can be an invaluable tool to achieving your goals. Come get to know us and share your interests and expertise with others!

For those of you who have been members for some time, we appreciate your commitment and support. We look to you for input regarding our meetings and agendas. What topics would you like to hear about at our semi-annual meetings? Is there another service that we might be able to provide that would be of benefit to you as a groundwater professional in Illinois? This is your organization and these meetings are designed for you! In an effort to provide educational opportunities for our membership, we have offered educational webinars from Midwest Geosciences Group at our last couple of meetings. General feedback indicates that the webinars are a hit! We plan to continue to offer this valuable service to our membership. As discussed further in this newsletter, Midwest Geosciences is offering Part 2 of the series on the hydrogeology of aquitards at our upcoming Spring meeting in Springfield, Illinois.

## From The Chair (continued)

Finally, in an effort to broaden the reach of the IGA and to fulfill our mission “to advance the knowledge of groundwater resources in Illinois,” the executive committee is working to expand the student grant program to offer small grants to middle and high school students and teachers. We implemented the expanded grant program this Fall.

Looking ahead we have plenty to celebrate! It was great to see many of our past chairs at the meetings this year. We appreciate those folks who have given their time and service to our organization. I look forward to seeing you all again in the spring! Happy Anniversary IGA!

Sincerely,  
Joyce A. Day, P.G.  
2013 Illinois Groundwater Association Chair

## 2014 Spring Meeting, UIS Conference Center, Springfield



The Spring 2014 meeting will be held on Tuesday, April 15th at the University of Illinois Springfield Conference Center <http://www.uis.edu/maps/drivingDirections/>

In our continuing efforts to bring the IGA meetings to both upstate and downstate locations, we have enjoyed excellent meeting accommodations at the SIU center. Presently, the plan includes **Midwest Geosciences** webinar – *"Hydrogeology of Aquitards and Low-permeability Materials: Analyzing Head Distributions and Vertical Hydraulic Gradients*, presented by Kenneth Bradbury PhD, PG and Dave Hart PhD, PG.

**Steve Wilson** with ISWS will discuss Illinois State Water Survey's online class for private water well owners found at: <http://privatewellclass.org/> This class was designed to help homeowners better understand their water wells, the basic science of groundwater movement, well construction, how to maintain private water wells and pumps, understanding of well water test results, and regulations that affect domestic water wells. This free multiple week online program was developed by ISWS and Illinois Resource Center at U of I Urbana-Champaign with assistance from USEPA and the Rural Community Assistance Partnership.

Several more presenters are being sought and confirmed to round out the day's agenda. The IGA executive committee is currently coordinating and **inviting presenters with topics of groundwater interest**. If you would like to present your project work or suggest a topic of interest, feel free to contact IGA Vice-Chair, Walt Kelly at <mailto:wkelly@illinois.edu>. We will continue to provide updates to you as the program agenda comes together. The day in Springfield will surely be an informative, casual opportunity to meet, network and share with colleagues.

**CEU credits** will be available for meeting attendance. You may **pre-register and** pay at the door or **register on-line**. For more information about IGA visit Illinois Groundwater Association website at: <http://www.illinoisgroundwater.org/>

## 2013 Fall Meeting at The Clocktower Inn, Rockford

The 30<sup>th</sup> Anniversary IGA Fall 2013 association meeting was held on Friday, September 13, 2013 at the Best Western Clock Tower Resort.

The program began with a Midwest Geosciences technical webinar "Hydrogeology of Aquitards and Low-permeability Materials: *Analyzing Aquitard Integrity for Water Resources Protection and Contaminated Sites*" presented by Kenneth Bradbury, PhD, PG and Dave Hart PhD, PG.

After the webinar, **Bill Buscher** from IEPA's Bureau of Water discussed topics related to groundwater protection at coal mines, including the regulatory history and current programs implemented by the IEPA Mine Pollution Control Program in conjunction with IDNR Office of Mines and Minerals. Next, **Daniel Drommerhausen** with Shaw Environmental described the site investigation that led to a landfill design for Peoria City/County Landfill No. 3. Then IGA student grant winner, NIU's **Clinton Bailey** presented his research in determining the groundwater source within sandboils at Nachusa grasslands conservation area near Kankakee.



DuPage County as part of the FUDS program. The concluding talk by **Daniel Horvath** of Resource Consulting, Inc. described the process involved with navigating a Kane County drycleaner through the remediation process requirements for fund acquisition and IEPA receipt of an NFR letter.

Afternoon presentations included NGWA Government Affairs Committee Chair, **Melissa Lenczewski's** report on the legislative "fly-in" session to lobby congress per issues related to groundwater. CH2M-Hill hydrogeologist, **Lauren Martin** presented information pertaining to a site closure at a Department of Defense formerly used defense site in



## Spring 2013 IGA - 30th Anniversary Meeting in Morton

The 30<sup>th</sup> Anniversary IGA Spring 2013 association meeting was held on Friday, April 19, 2013 at the Best Western Ashland House Conference Center.



The program began with a Midwest Geosciences technical webinar. The webinar, “No Purge Groundwater Sampling: Is it time to curb the urge to purge?” was presented by GeolInsight's Kent Cordry, who holds ten patents, including two covering no-purge groundwater samplers.

After the webinar, the morning topics included: **Randy Locke**, coordinator of the Midwest Geological Sequestration Consortium, ISGS Monitoring Verification and Accounting (MVA) program for the Illinois Basin Decatur Project. He discussed this collaborative project, involving state and national support, being conducted to gain a better understanding of feasibility and efficiency pertaining to CO<sub>2</sub> injection and storage within Mount Simon Sandstone. Next **Larry Kinsman** of Orin Technologies discussed ex-situ and in-situ chemical treatments for soil and groundwater including chemical oxidation techniques that combat organic contaminants.

IGA awards were presented:

- **2013 Public Information/Education Award** was presented to **Cassandra McKinney, MPA** former McHenry County Water Resources Manager, who was recognized for leadership in environmental education, collaborative efforts between local, state and federal agencies, and for acquisition and management of significant funding for water resource research and action plans.
- **2013 Scientific Research Achievement Award** was presented to **Randall Locke II, PG**, of Illinois State Geological Survey, who was recognized for excellence in scientific research pertaining to hydrogeological and geochemical investigations, Illinois Groundwater Association leadership (IGA Director/Webmaster 1997–2008), and regional carbon sequestration as a coordinator for the Midwest Geological Sequestration Consortium (MGSC) ISGS Monitoring Verification and Accounting (MVA) program.

During the open-mike segment three distinguished past IGA Directors spoke: **Bob Sasman**, IGA Founding Director, **Greg Buffington** and **James Michels**, past IGA Chairs. We were honored they could join us for this 30<sup>th</sup> year anniversary meeting.



Bob Sasman



Greg Buffington



James Michels

## Spring 2013 IGA - 30th (continued)

Afternoon talks included IGA student grant winner SIU's **Ryan Cox**, who presented his groundwater contaminant transport model for a Southern Illinois groundwater source located near reclaimed coal mine property. The study addressed water supply issues and the model included: contaminant transport from the mine, extended to natural boundaries of adjacent rivers, bedrock and valley features. **Al Wehrmann, ISWS** discussed the Mahomet Aquifer with regard to US EPA's Sole Source Aquifer (SSA) program, which provides groundwater quality protection against contamination by federally-funded projects. **William Morrow, USGS**, described aspects of the City of Chicago's "Sustainable Streetscapes" program that included the use of sustainable infrastructure design techniques, utilizing recycled local construction materials, permeable pavement, bioswales, infiltration planters, and alternative transportation methods.. The program objective, to reduce runoff from sewer overflow, would increase groundwater recharge.

This meeting was approved for **CEU** credits per IEPA for water operators, IDPH for local public health professionals, and for professional engineers.

## Fall 2012 IGA Meeting at Argonne National Laboratory

The IGA Fall meeting was held on Friday, October 19, 2012 at Argonne National Laboratory Conference Center. The program began with a Midwest Geosciences webinar, "Slug Testing for Site Characterization: Practical Guidelines to Improve Efficiency and Accuracy" presented by **Jim Butler, PhD**, of Kansas Geological Survey, who has been recognized for research pertaining to aquifer testing, hydraulic profiling, interactions between groundwater and surface water.



After the webinar, the morning talks included topics pertaining to environmental issues, "Estrogen reduction in a coupled wetland and ground water flow-through system" presented by IGA student grant winner, **Laura Hanna, ISU**. Argonne National Laboratory scientists completed the morning talks with **Peter Lynch, MS, LPG**, presenting "Environmental Corrective Actions and Groundwater Monitoring at ANL" which described the clean-up compliance efforts of Argonne operations with regard to contaminants from lab operations that began in 1949 at Argonne.



**John Quinn, PhD, PE**, of Argonne's Environmental Science Division, discussed the effectiveness of using phreatophytes such as poplars to remediate and provide hydraulic controls for volatile organic compounds (VOCs) and other contaminants in groundwater and soil on the Argonne (ANL) grounds. These ANL presentations were excellent precursors for the **Argonne tours** conducted later in the afternoon.

## Fall 2012 IGA Meeting (continued)

Afternoon talks included presentations on hydraulic fracturing and coal ash disposal. These topics were presented by **Ed Mehnert, PhD** of ISGS and **Stuart Cravens** of Kelron Environmental, respectively. Ed Mehnert reviewed the practice of hydraulic fracturing and potential environmental risks associated with the operation. Potential for oil and gas development of New Albany Shale in the Illinois basin was discussed along with USEPA's water quality research on this topic. Stuart Craven's talk provided background of coal ash disposal in the US and how opposing groups can select and interpret scientific data to obtain results that support their environmental agendas.

**Argonne tours** were conducted after the formal presentations: **John Quinn** led an outdoor tour through the Argonne facility grounds discussing the on-going remediation practices. Argonne biologist, **Dave Hooper** enthusiastically led an indoor tour discussing the many collaborative science projects conducted in the Argonne laboratories. This meeting was approved for **CEU credits** per IEPA for water operators, IDPH for public health professionals, and for professional engineers.

## 2014 IGA Student Grants

A primary goal of the Illinois Groundwater Association is to foster **groundwater scholarship**. One way we support this effort is through our Student Research Grant Program which has granted over \$18,000 in direct financial support to students since 1987. (<http://illinoisgroundwater.org/sgrants.html>) Any **undergraduate or graduate student** registered for full- or part-time study at an accredited college or university in Illinois is eligible. Notifications are sent to many eligible institutions, and we encourage students to submit their applications. Student grant applications are accepted in the spring and fall of each year, and for 2014 we anticipate awarding grants worth a maximum of \$500 each. The 2014 spring and fall application deadlines are April 30 and November 30, respectively.

The Illinois Groundwater Association (IGA) makes available several small grants to help support **middle and high school** student groundwater projects, with awards up to \$250. The main purpose includes: to foster awareness of groundwater-related issues in Illinois middle and high schools, support science teaching, and encourage the training and development of future water and groundwater professionals.



The application form and guidelines can be obtained from the student grants section of the web site or from IGA Grants Coordinator:

Edward Mehnert, Illinois State Geological Survey

615 East Peabody Drive, Champaign, IL 61820  
217/244-2765 Fax 217/244-2785 ([emehnert@illinois.edu](mailto:emehnert@illinois.edu))

Benefits of the IGA student grants go well beyond monetary support for research. As part of the grant conditions, students present their findings at an IGA meeting - a great opportunity to improve professional presentation skills in front of a supportive and interested audience. Overall, involvement in the IGA gives students a chance to network with groundwater professionals in academia, government, and industry, learn about relevant issues, improve their resume, and hone communication skills.

## IGA Student Grant 2012 and 2013 Awards

The IGA was pleased to award a 2012 student grant to **Clint Bailey, MS**, of Northern Illinois University in the amount of \$500. We enjoyed hearing about his research as a presenter during our Fall 2013 meeting at the Clock Tower Resort in Rockford.

- Clinton Bailey – M.S. student at Northern Illinois University: *Determining the source water of the Nachusa Grasslands' sand boil flow network via geochemical and stable isotope techniques*

The IGA was pleased to award a 2013 student grant to **Alissa James, MS** student at Illinois State in the amount of \$500. Alissa's research area involves "A microcosm study into fluctuations of denitrification rates within the hyporheic zone." We look forward to hearing about her research as a presenter at one of our upcoming meetings.

The IGA Board of Directors congratulates our 2012 and 2013 student grant award winners and we are also pleased to acknowledge all grant award winners, along with their schools and research titles at our web site: <http://www.illinoisgroundwater.org/sgrants.html>.

### IGA – 30<sup>th</sup> Anniversary -- Interesting Student Grant Statistics

As previously mentioned, one of the IGA's primary purposes is supporting students in groundwater-related sciences. Below is a listing of interesting data pertaining to the IGA student grant program.

Grants have been given from 1987 to date:

- Number of IGA grants awarded – **54**
- Number of grants awarded per year – zero to 6, with an average of 2 per year
- Number of different Illinois universities or colleges of students that have received grants - **8**
- Maximum grant size - \$500
- Overall average grant amount - ~\$350
- Grant award size since 2006 - \$500
- **Total amount awarded since 1987 - \$18,495.00**

## Support IGA with Your Membership Dues

Membership in the IGA is open to anyone interested in the groundwater resources of Illinois and dues help the IGA meet its educational and charitable mission. Professional member dues continue to be only \$25 with student membership remaining at \$5 per year. Membership dues support the IGA biannual professional meetings and the student grants. We offer several convenient ways to submit payment for both new memberships and renewals: cash, check or online with a credit card or PayPal account (<http://illinoisgroundwater.org/join.html>).

We encourage you to pay online because it is the quickest and simplest way to help the IGA. Using this payment method also gives you the choice of selecting a recurring or single-year subscription. Never worry about forgetting to pay your dues again!

If you prefer to pay by cash or check, please complete the membership form on the website (<http://illinoisgroundwater.org/forms/Membership%20Form.pdf>) and submit by mail, email, fax or bring to a meeting. If you need a receipt for employer reimbursement, please let us know. Make checks **payable to the Illinois Groundwater Association**.

## IGA Meetings – Get Your CEUs Here

Continuing education units (CEUs) are required for many Illinois professionals especially for licensure renewals. The IGA biannual program agendas are submitted for approval to Illinois Department of Public Health and Illinois Environmental Protection Agency, and other upon request. Programs are approved by the Illinois Department of Public Health as meeting the annual hourly training requirements for local health department water program personnel as Bureau of Water, Division of Public Water Supplies/Operator Certification to provide CEUs for drinking water operators.

Other professions also can use the IGA's meetings for CEUs. For instance, Illinois Professional Engineers (PEs) can attend IGA meetings for CEUs based on their license legislation requirements. Some educational programs require that our meeting agenda be preapproved. Be sure to ask an IGA officer in advance if your educational program is included. If it isn't, we'll work with you to meet your educational needs!

## IGA Groundwater Science Awards

The IGA Groundwater Science Awards Program recognizes Illinoisans who have made outstanding contributions to groundwater science in the spirit of the *Illinois Groundwater Protection Act*. For the purposes of these awards, groundwater science is broadly defined to include research, education, consulting service, water well construction, or public service as related to the scientific management, protection, and/or utilization of groundwater. (<http://www.illinoisgroundwater.org/gwawards.html>)

The program was originally co-sponsored by the Illinois Groundwater Protection Education Program developed under the Illinois Groundwater Protection Act, but is now managed by the IGA. The IGA has presented two types of awards starting in 1993, and the list of honorees reads as an who's-who of Illinois groundwater professionals. The *Achievement Award* recognizes singular and life-long contributions to groundwater science, and the *Public Information/Education Award* is given to people or organizations that have fostered groundwater-related education in Illinois. IGA members and interested parties are **welcome to recommend people, programs, or organizations** for a Groundwater Science Award. Recipients are honored at one of the semi-annual IGA meetings.

### Groundwater Science Awards for 2013

The IGA was pleased to announce at the Spring meeting in Morton the recipients of the two Groundwater Science awards for 2013. **Mr. Randy Locke** of the Illinois State Geological Survey was selected to receive the *2013 Illinois Groundwater Science Achievement Award* for his scholarship and long service to the Illinois groundwater community. **Ms. Cassandra Torstenson**, of the College of Lake County was awarded the *2013 Illinois Groundwater Education Award* for her leadership in the study and management of groundwater while striving to educate decision makers, the groundwater community, and the public on groundwater resource issues.

Mr. Locke and Ms. Torstenson were honored for their achievements during the Spring 2013 IGA meeting on April 19, 2013 at the Best Western Ashland House Conference Center in Morton. A summary of the accomplishments for Mr. Locke and Ms. Torstenson are discussed below. Please join us in recognizing Mr. Locke and Ms. Torstenson!

**Mr. Randall A. Locke, II**

Since 2009, Locke has been with the Illinois State Geological Survey (ISGS) as an environmental geochemist. He is the principal investigator of a statewide scientific program that has been funded by the Illinois Department of Natural Resources since 1998 to collect and interpret hydrogeological and geochemical data related to Illinois nature preserves. Among other accomplishments, the Illinois Nature Preserves Groundwater Program developed a methodology that has been applied to more than 20 sites so that groundwater contributing to the sites could be protected as Special Resource Groundwater under Illinois Administrative Code Title 35, Part 620.230. In 2010, Locke became the coordinator of the Monitoring, Verification, and Accounting (MVA) Program for the Midwest Geological Sequestration Consortium (MGSC), one of seven regional partnerships selected by the U.S. Department of Energy to determine the best approaches for capturing and storing carbon dioxide that might otherwise contribute to global climate change. The MGSC MVA Program includes extensive near-surface, shallow-subsurface, and deep-subsurface monitoring methods at two demonstration-scale carbon storage projects in Decatur, Illinois: the Illinois Basin–Decatur Project and the Illinois Industrial Carbon Capture and Storage Project.

In 2011, Locke became the head of the ISGS Geochemistry Section, a group of 11 full-time scientists and support staff who conduct a diverse range of research and analytical services. He has authored or co-authored more than 30 reports and publications. Locke is an Illinois Licensed Professional Geologist (since 1996), a member of the Illinois Groundwater Association (since 1994), and a member of the National Ground Water Association (since 2003). He served the Illinois Groundwater Association for more than 10 years in multiple capacities and was chair of its Executive Committee in 2004. Locke currently serves on several committees, including the MVA (2009 to present) and the Water (2009 to present) Working Groups of the U.S. Department of Energy's Regional Carbon Sequestration Partnership Program. Since 2012, he has also participated in the Monitoring Network of the International Energy Agency Greenhouse Gas Research and Development Programme.

**Ms. Cassandra (McKinney) Torstenson**

Between 2007 and 2012, Cassandra Torstenson served as the Water Resources Manager for the County of McHenry Division of Water Resources. As the Water Resources Manager, she coordinated the development and implementation of a comprehensive Water Resources Action Plan and multiple groundwater research projects aimed at protecting and preserving a sustainable, safe supply of potable water. She was actively involved with the Northern Illinois Regional Water Supply Planning Group, the Northwest Water Planning Alliance and the ISAWWA Source Water Committee. Other positions Cassandra has held include being the former Director of the Green Economy and Sustainable Water at the College of Lake County, and working in land-use planning for the USDA-Natural Resources Conservation Service. Cassandra is currently Environmental Services Section Lead at the North Dakota Department of Transportation. She holds a Masters of Public Administration from the University of North Dakota – Grand Forks and a Bachelor of Science in Environmental Science from Western Washington University. She is also pursuing a certificate in Water Conflict Management from Oregon State University. In her free time, Cassandra enjoys time with her children, riding her bicycle, hiking, and teaching ski lessons in the winter.

Feature Article

30 Years Illinois Groundwater Association -- A Brief IGA History



**Introduction:**

The IGA seeks to advance the knowledge of groundwater resources in Illinois and functions exclusively for charitable and educational purposes. Any person interested in the groundwater resources of Illinois can join the IGA. Our membership includes consulting engineers, geologists and other professionals; faculty and students from colleges and universities; the public; people from federal, state, county, and municipal agencies and organizations; and people from drilling companies, analytical laboratories, and other industries with an interest in groundwater.

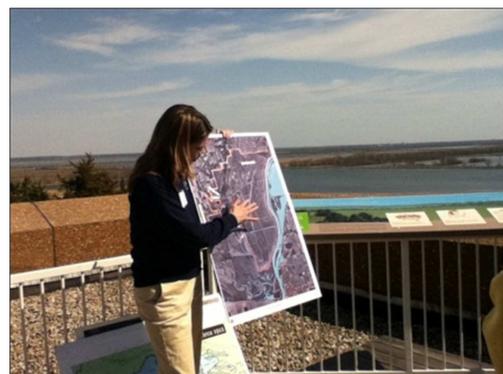
Spring and Fall technical meetings include presentations, lunch, discussions of current groundwater issues and research, and legislative updates. CEU credits are available and new topic ideas are always welcome. IGA supports grants for students conducting groundwater research at Illinois colleges and has given over \$18,000 in direct financial support to date. The student grant program has recently been extended to middle and high school students and school programs for groundwater projects.



**A Brief IGA History :**

In 1982, Jim Gibb, Ellis Sanderson and Bob Sasman, all with ISWS, shared initial ideas for a state level groundwater organization after attending a Mid-West Groundwater Conference in Iowa. The National Water Well Association (NWWA) had been encouraging formation of state organizations to promote greater interest in groundwater. With a start-up grant from the NWWA and assistance from Monte Nienkirk (IEPA), Gary Clark (IDNR), Chuck Grigalauski (Waste Management), and Greg Buffington (Layne-Western Company) an organizational structure was initiated as were drafts of Bylaws and a Constitution.

In 1983, Illinois Groundwater Association (IGA) was formed, as one of only 4 such state organizations in the country. The first meeting, held in June 1983, brought together 83 professionals representing 7 public water supplies, multiple counties, 6 state agencies, 3 federal agencies, 12 consulting firms, multiple well construction contractors, and 5 industrial firms. After the initial meeting, a committee consisting of Jim Gibb, Ellis Sanderson, Bob Sasman, Marv Sherrill (USGS), Jim Michels (Engineering Enterprises, Inc.) and Chuck Grigalauski continued to work out details and organized the first election of officers.



**In 1984**, Charter Officers were elected: Chairman Jim Gibb, Vice Chairman Monte Nienkirk, Secretary-Treasurer Bob Sasman, and Directors Ken Bowden (NIU) and Greg Buffington. Initial IGA committees included: membership, nominating and newsletter; annual dues were set at \$5.00. Proposed Constitution and Bylaws were finalized, approved by the membership during the October 1984 meeting. Not-for-profit tax exempt status was approved by the Internal Revenue Service (IRS) in 1985. The biannual meeting schedule was determined to be Spring and Fall, with meeting locations moved around the state. Suggested meeting agenda included: formal presentations with an opportunity for discussion and an open forum to cover topics related to groundwater. The first IGA newsletter was printed by Ken Bowden to announce the Fall meeting and slate of new offers.

**In 1986**, a more formal association newsletter was instituted, by Bruce Hensel and Ed Mehnert of ISGS who served as editors. The first IGA logo was designed by Don Keefer of ISGS after a contest was conducted.

**In 1987**, IGA's early participation in interesting Illinois projects included preparation of a resolution supporting construction of the Superconducting Supercollider at the Fermi National Accelerator Laboratory in Batavia; subsequently this project was approved for construction in Texas. In collaboration with the American Society of Civil Engineers, Illinois Section of Environmental Engineering and Water Resources Division, IGA hosted a water resource symposium October 21-22, 1987 at Rosemont Conference Center.

**In 1987**, IGA initiated a student research grant program to promote Illinois groundwater research at the state level and encourage students training as future groundwater professionals. In 1991, the membership established a Student Director position on the IGA governing board. The first student director was Dan Kelleher from NIU. <http://www.illinoisgroundwater.org/sgrants.html>

**In 1993**, IGA and the Illinois Groundwater Protection Education Program (IGPEP), under the Illinois Groundwater Protection Act, developed annual Groundwater Science Awards. The awards recognize individuals and organizations that make significant contributions to groundwater protection. IGA awards originated through the efforts of Harry Hendrickson, IGPEP Groundwater Education Coordinator. Any individual or organization involved in research, education, consulting service, water well service, or public service is eligible. Award categories include: *Research and Scientific Achievement*, also, *Public Information and Education* for the advancement of groundwater knowledge. <http://www.illinoisgroundwater.org/gwards.html>

Over the years, the biannual meetings have been held at some of the state's most interesting venues: (<http://www.illinoisgroundwater.org/meetings/meetings.html>) Starved Rock, Fermi National Lab, Dixon Mounds, Argonne National Lab, Pleasant Run, Chanute Aerospace Museum, Morton Arboretum, to name a few. For 30 years, IGA has provided an avenue for networking between groundwater professionals, mentoring for students and entry-level groundwater professionals, “a forum for learning new groundwater regulations, techniques for groundwater monitoring, technical innovations in the groundwater field, case histories of interesting groundwater problems and solutions, and activities and programs of public and private organizations.”

Submitted by: Diane Lamb, LPG  
Sources: IGA records



## With Appreciation: 30 Years of Past IGA Chairs

Year	IGA Chair	
2013	Joyce Day	PDC Technical Services, Inc.
2012	Eric Peterson	Illinois State University
2011	Danielle Wallin	Farnsworth Group, Inc.
2010	Steve Kroll	Patrick Engineering
2009	Melissa Lenczewski	Northern Illinois University
2008	Dan Horvath	Resource Consulting, Inc.
2007	Don Keefer	Illinois State Geological Survey
2006	Steve Van der Hoven	Illinois State University
2005	Erik Spande	CH2M Hill
2004	Randy Locke	Illinois State Water Survey
2003	Ed Mehnert	Illinois State Geological Survey
2002	Colin Booth	Northern Illinois University
2001	Steve Bennett	Western Illinois University
2000	Paul Kesich	Fermi National Accelerator Lab
1999	Jerry Dalsin	Illinois Department of Public Health
1998	Steve Esling	Southern Illinois University
1997	Dave Larson	Illinois State Geological Survey
1996	Steve Wilson	Illinois State Water Survey
1995	Anna Maxwell Dennis	Illinois Basin Environmental
1994	Bob Kohlhase	Farnsworth & Wylie
1993	Beverly Herzog	Illinois State Geological Survey
1992	Kelly Warner	U.S. Geological Survey
1991	Ron Kaufmann	Northern Illinois University
1990	Al Wehrmann	Illinois State Water Survey
1989	Jim Michels	Engineering Enterprises, Inc.
1988	Gary Clark	Illinois Department of Transportation
1987	Greg Buffington	Layne-Western
1986	Monte Nienkirk	Illinois EPA
1985	Jim Gibb	Illinois State Water Survey
1984	Jim Gibb	Illinois State Water Survey
1983	Jim Gibb	Illinois State Water Survey

<http://www.illinoisgroundwater.org/officers/prevoff.html>

## With Appreciation: 30 Years of Groundwater Science Awards

Year	IGA Science Achievement Awards
2013	<b>Randy Locke</b> - Illinois State Geological Survey
2012	<b>Allen Wehrmann</b> - Illinois State Water Survey
2008	<b>Jerry Dalsin</b> - Illinois Department of Public Health
2007	<b>William Dixon</b> - Practical Environmental Consultants
	<b>Robert Sasman</b> - Illinois State Water Survey
1998	<b>Ross Brower</b> - Illinois State Geological Survey
	<b>Ellis Sanderson</b> - Illinois State Water Survey
1997	<b>Thomas A. Prickett</b> - Thomas A. Prickett & Associates
	<b>Richard P. Cobb</b> - Illinois EPA
1995	<b>Philip C. Reed</b> - Illinois State Geological Survey
	<b>Dr. John P. Kempton</b> - Illinois State Geological Survey
1994	<b>Keros Cartwright</b> - Illinois State Geological Survey
1993	<b>Dr. Richard C. Berg</b> - Illinois State Geological Survey
	<b>Dr. John M. Shafer</b> - U of So Carolina/ former ISWS
	<b>Joan Bade</b> - Monroe & Randolph Bi-County Health Dept
	<b>Gerald Rosenquist</b> - Rosenquist and Sons Well Drilling
Year	IGA Public Information/Education Awards
2013	<b>Cassandra McKinney</b> - McHenry Co Water Resources
2012	<b>Beverly Herzog</b> - Illinois State Water Survey
2008	<b>Mahomet Aquifer Consortium</b> - <a href="http://www.mahometaquiferconsortium.org">www.mahometaquiferconsortium.org</a>
2000	<b>Steve Esling</b> - Southern Illinois University
	<b>Colin Booth</b> - Northern Illinois University
1997	<b>Central Groundwater Protection Planning Committee:</b>
	- <b>Bill Compton</b> - Chair                      - <b>Pat Welch</b> - Secretary
1996	<b>Illinois Middle School Groundwater Project Team:</b>
	- <b>Dr. Robert William</b> - Project Director, Edwardsville
	- <b>William Beckman</b> - Northern Coordinator, Woodstock
	- <b>William Donato</b> - Central Coordinator, East Peoria
	- <b>Mary Mondy</b> - Southern Coordinator, Medora
	<b>Robert D. Stain</b> - Mahomet Valley Water Authority
	<b>George Gaffke</b> - Water Well & Pump Installation Contractor
1995	<b>William M. Ebert</b> - Licensed Water Well & Pump Installation
	<b>Harry Hendrickson</b> - Illinois Dept of Energy & Natural Resources
1994	<b>Roger A. Kanerva</b> - Illinois EPA / <b>Dr. John W. Foster</b> - Illinois State University
	<b>Clayton Simonson</b> - Illinois Department of Public Health
	<b>Paul Kremmel</b> - Monroe County Soil & Water Conservation Dist
	<b>DuPage County Health Department</b>
1993	<b>POWER (Project Our Water &amp; Environmental Resources)</b> Rockford

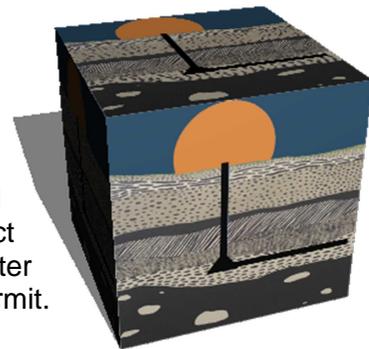
<http://www.illinoisgroundwater.org/gwawards.html>

## Groundwater News:

### IDNR Web Portal, Hydraulic Fracturing

The subject of hydraulic fracturing and groundwater was discussed at the 2012 IGA meeting at Argonne National Laboratory. Illinois Department of Natural Resources (DNR) has completed the proposed administrative rules implementing the Hydraulic Fracturing Regulatory Act (HFRA). Every applicant for a permit under the HFRA is required to register with the IDNR at least 30 days before applying for a permit.

<http://www.dnr.illinois.gov/OilandGas/Pages/HydraulicFracturing.aspx>



The proposed administrative rules implementing the Hydraulic Fracturing Regulatory Act have been published for public review and comment through Friday, January 3, 2014. Topics of interest with regard to the proposed administrative rules are listed including groundwater related topics, well site preparation, well construction, and water quality. Several public hearings have been scheduled around the state for public comment starting November 26, 2013:

<http://www.dnr.illinois.gov/news/Pages/IDNRAddsPublicHearingsonHydraulicFracturingRules.aspx>

## EPA Groundwater Remedy Completion Strategy

**EPA invites stakeholder input on draft Superfund groundwater completion strategy:**

EPA Groundwater Remedy Completion Strategy is currently under Development to help achieve groundwater cleanup goals. <http://epa.gov/superfund/gwcompletionstrategy/>

**Background:** Many Superfund sites that are construction complete are not deleted from the NPL, even when they have completed source control measures. Ongoing groundwater restoration remedies continue towards RAOs and cleanup levels but still take decades to achieve completion. EPA obligates approximately \$50 million per year for their portion of the long-term response actions. After EPA completes their portion, states are responsible for 100% of the ongoing operational costs of Fund-lead restoration actions. PRP lead and federal facility-lead sites are responsible for the full cost of groundwater response actions. Together, federal agencies, states and responsible parties spend hundreds of millions of dollars each year to address contaminated groundwater.

The draft **Groundwater Remedy Completion Strategy is intended to help focus resources toward the efficient and effective completion of groundwater remedies** to ensure protection of human health and the environment. Draft strategy features site-specific evaluation and encourages re-evaluation of site cleanup strategies if cleanup progress is not reasonable. The strategy does not direct site-specific remedy decisions; alter existing statutes, regulations, guidance or policy; or change existing state or tribal groundwater classifications or groundwater use approaches."

**Draft comments due 12/20/13** may be sent to: [gwcompletionstrategy@epa.gov](mailto:gwcompletionstrategy@epa.gov)