Annual Meeting and Dinner Presentation

Keeping the Pump Primed: Aquifer Sustainability
by John Jansen, Ph.D., P.G.

Date: November 21, 2013

Location: J. Liu Restaurant & Bar
http://www.jliurestaurant.com/

Schedule: Social Hour at 5 pm
Dinner at 6 pm
Presentation at 7 pm

RSVP: President-Elect Curt Coe
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Details on Page 3

Also In This Issue: PAGE

Message from the President
Tom Jenkins, CPG-07892 2

2013-2014 Calendar of Upcoming Events 2

September Ohio Section Meeting and Dinner Presentation Revisited 5

Eagon & Associates, Inc. Hosts Open House for AIPG Student Section Members 8

Other Announcements
Pathways Financial Credit Union AIPG Member Offers 9
Letters to the Editor and Editorial Submittal Guidelines 10
Sponsors 11
Message from the President
Tom Jenkins, CPG-07892

I attended the AIPG 50th Annual Conference in Broomfield, Colorado on October 23-26, 2013. I can say without hesitation that it was the best conference that I have attended, and I have been to quite a few. The field trip that I attended on the first day was fascinating, the technical sessions were excellent, the venue was great, and the whole conference was flawlessly executed. The thing that made this conference unique was all that, plus the feeling of camaraderie and joint purpose. All the attendees were geologists committed to the advancement of the profession of geology. Everyone brought a different perspective from their state section and each had their own successes and challenges. It was very interesting hearing what other sections are doing, and learning that the challenges the Ohio Section faces are not unique. I encourage all Ohio geologists to consider attending an AIPG Annual Conference, it is an excellent educational opportunity and a great experience.

I also encourage all Ohio Section members to attend the Ohio Section AIPG Annual Meeting to be held at J. Liu Restaurant & Bar located at 6880 North High Street in Worthington. The featured speaker will be the 2013 NGWA McEllhiney Lecturer Dr. John Jansen, Ph.D. Dr. Jansen’s talk is titled: Keeping the Pump Primed: Aquifer Sustainability. I hope to see you there.

2013-2014 Calendar of Upcoming Events


2014


MARCH 5-7  2014 OOGA Winter Meeting – at the Hilton Columbus at Easton, Columbus, Ohio; [www.ooga.org/](http://www.ooga.org/).

JUNE 9-11  NGWA Short Course – Field Methods: Groundwater Sampling and Analysis (short course #226), Columbus, Ohio – [www.ngwa.org/](http://www.ngwa.org/).

You are cordially invited to the AIPG Ohio Section’s Annual Meeting and Dinner presentation, which will take place at J. Liu Restaurant & Bar on Thursday, November 21. The Section is pleased to host 2013 NGWREF McEllhiney Lecturer Dr. John Jansen, who will be presenting on the topic: Keeping the Pump Primed: Aquifer Sustainability.

The event begins at 5:00 pm with social hour, followed by dinner at 6:00, and the feature presentation at 7:00. The meeting will also include the annual awards presentation. The November Meeting and Dinner presentation promises to be an interesting and memorable event for all attendees. Please RSVP to President-Elect Curt Coe at Curtis.Coe@dnr.state.oh.us.

Keeping the Pump Primed: Aquifer Sustainability

ABSTRACT

How will your groundwater resources fare in the future and how will that affect your business? How can we ensure the sustainability of our aquifers through sound science? How should groundwater contractors and scientists confront economic and political challenges affecting the resource that is pivotal to the success of their businesses? How is “sustainability” defined and what tools and strategies can be used to protect groundwater systems as well as those who obtain and develop it? What information must be gathered and compiled to build consensus and present a compelling case to regulators and policymakers?

Dr. John Jansen’s 2013 McEllhiney Lecture presentation, Keeping the Pump Primed: Aquifer Sustainability, will provide you with a greater understanding of:

- How several different definitions of “sustainability” apply to the management of an aquifer, and how these different definitions may affect your business
- States’ varying approaches to aquifer management, reflecting their local conditions and history — with specific considerations of how the approach in your state affects you and your business
- How regulatory practices are evolving, and why they must balance local economic and political realities with environmental needs to be accepted and successful
- Meaningful ways that you provide information and build consensus, to help the regulatory evolution move in a positive direction
- Steps needed for successful management from all perspectives.
Annual Meeting and Dinner Presentation Announcement

ABSTRACT Continued

Currently, there are states that manage aquifers by pumping to balance groundwater recharge, which can cause stream depletion. Others limit pumping to protect surface flows, which can have negative economic impacts. Yet still others manage aquifers for controlled depletion in recognition of the severe economic disruption that would occur from either stricter goals or a lack of any planning and management. Many western states manage aquifers to protect surface water rights, while others ignore the connection between surface water and groundwater. Some eastern states seek the use of a hybrid “regulated riparian” approach to balance the free use of water with a reasonable use standard. What are the impacts of these approaches to your local groundwater industry and the reliability of water resources in the future?

No one can control, manage, or sustain what is not measured, so monitoring is the first step needed to ensure success. Monitoring can identify aquifers being used in an unsustainable manner and that information can be used to build information and consensus to find remedies to sustain groundwater systems as well as the industries and businesses that rely on them. One example of this is the deep sandstone aquifer of northern Illinois and southeastern Wisconsin, where decades of overpumping have created one of the largest cones of depression in the world. Both states have conducted detailed studies of the aquifer and have begun regional planning to control the human and environmental impacts. Other regional examples from around the country will be presented, and an emphasis will be given to the local conditions and issues of the McEllhiney Lecture host organization.

PRESENTER

John Jansen, Ph.D., P.G., is a principal and senior hydrogeologist for Cardno ENTRIX and works on a wide variety of groundwater projects around the country, specializing in high-capacity wells and groundwater resource management. Formerly a partner in a Denver-based water rights company and the chief geoscientist for an international drilling company, he has broad experience in well construction and maintenance, as well as water rights issues.

Jansen holds three U.S. patents on water well-related technologies and is the lead author of the chapter on borehole geophysics in the third edition of Groundwater & Wells, published in 2007. He is a professional geologist in seven states and a registered geophysicist in California. Jansen’s a member of the Advisory Council on Water Information, a federal advisory committee advising the U.S. government on water research priorities, where he had been active in the development of a national groundwater monitoring network. He has a B.S. in geology and an M.S. and Ph.D. in geological sciences, with an emphasis in hydrogeology and geophysics, all from the University of Wisconsin-Milwaukee. Jansen is also currently serving as the 2013 NGWREF McEllhiney Lecturer.
September Ohio Section Meeting and Dinner Presentation Revisited

The third Ohio Section AIPG meeting and dinner presentation of 2013 took place on September 19 at La Scala in Dublin, and was an enjoyable evening for all attendees. The event commenced with a social hour and dinner, and concluded with an informative and timely presentation by Kevin McCray of the National Ground Water Association.

Presentation of Meeting Agenda and Opening Remarks

At the conclusion of social hour, President Tom Jenkins called the meeting to order and welcomed fellow members and guests. President Jenkins encouraged attendees to consider becoming more involved in the Ohio Section, and noted how increased involvement is such a rewarding experience, and that various activities including attending Executive Committee meetings, and field trips, some of them Executive Committee exclusive, are such a rewarding experience. Section bylaw revisions are being submitted to National. There are a lot of exciting things going on now as well as planned for 2014.

Wright State University (WSU) student Greg Geise discussed the July field trip to Hocking Hills. This was an enjoyable experience for all attendees and especially rewarding for the students (see the September 2013 Newsletter for a detailed article summarizing the trip). The WSU AIPG student chapter is considering possibilities for future field trips – potential destinations include Caesar’s Creek and Clifton Gorge. Greg also mentioned that the student chapter held an open house and got two new members.

Jim McDonald (ODNR, AAPG) mentioned to attendees that two upcoming AAPG events are scheduled for November, the Appalachian Mudrocks Symposium and the Student Expo, to be held November 2-5 in Morgantown, West Virginia.

The Section was pleased to have in attendance AIPG National President Ronald Wallace, who spoke to the group about a number of interesting topics. Ron discussed the upcoming AIPG 50TH Annual National Meeting in Broomfield, Colorado on October 23-26, and highly recommended the field trips. Mr. Wallace then discussed the AIPG Student Chapter of the Year Award, which has been established to recognize the most outstanding student chapter for their participation in, and contribution to AIPG (more information on the Student Chapter Award can be viewed at http://www.aipg.org/about/studentschapteryearaward.html). He also discussed the need for recognizing section members at the national level. Ron, who is also President of the Georgia AIPG Section, talked about various Georgia Section activities including many of the Section field
trips and presented an interesting slideshow. He mentioned that their section meetings are actually field trips, and many of the field trips focus on the students, and occasionally they even go out with a drill rig or install a monitoring well!

**President-Elect Curt Coe** then introduced the featured presenter Kevin McCray, the Chief Executive Office of the National Ground Water Association (NGWA). Curt mentioned that one goal for the Section should be to become more involved with NGWA, and an effort should be made to become more familiar with the NGWA position papers.

**Dinner Presentation by Kevin McCray, CAE**

Mr. McCray delivered an interesting presentation to the crowd entitled: *What’s the National Ground Water Association doing Today That’s of Interest to Ohio Geologists?*

While the majority of geologists are familiar with the NGWA and their scientific conferences, short courses, webinars, and published professional journals such as *Groundwater* and *Groundwater Monitoring and Remediation*, the NGWA is doing much more than that for hydrogeologists, groundwater scientists, and engineers. Mr. McCray discussed the NGWA’s active network of volunteer hydrogeologists who regularly participate in NGWA advocacy efforts concerning numerous topics. These topics include the establishment of a national groundwater monitoring network as well as groundwater sustainability. Other topics include vapor intrusion guidance, groundwater remediation, food security, and other groundwater and energy topics.

Kevin noted that NGWA members have contributed to the drafting of a proposed NGWA water well construction standard, and a proposed standard defining the groundwater-related professions. NGWA members have participated in drafting new best-suggested practices documents on managed aquifer recharge and methane gas management in residential water well systems.
Proposed NGWA hydrogeologic guidelines are also being drafted for large-scale ground-source heat pump installations. The NGWA is collaborating with the American Society of Heating, Refrigeration, and Air Conditioning Engineers and the International Ground source Heat Pump Association to develop an ASHRAE/ANSI standard on ground-source heat pump loop wells.

The NGWA also continues to seek how to maximize the groundwater industry’s human, technological, scientific, and financial resources to assist those around the globe without adequate resources to access dependable, plentiful, and potable groundwater supplies for human health. In the first six months of 2013 the NGWA has established cooperation agreements with groundwater science organizations in Colombia and Taiwan, the latest in a family of 17 such relationships.
Eagon & Associates, Inc. Hosts Open House for AIPG Student Section Members

Eagon & Associates, Inc. conducted an open house on September 27, 2013 for AIPG Student Section members at their offices in Worthington, Ohio. The event was attended by six Wright State University students. Presentations were made by four different Eagon project managers on hydrogeologic site investigations, water supply investigations, computer modeling studies, geophysical investigations and sample logging. It was an opportunity for the students to see in detail the nature of the work conducted at a geologic consulting firm. The AIPG Ohio Section is hoping to continue hosting similar events for Ohio geology students in the coming months.

Group photo of AIPG Student Open House at Eagon and Associates.

Back row, left to right: Shay Beanland (Eagon), Steve Champa (Eagon), WSU Students Ken Saville (WSU), John Christenson (WSU).
Front row, left to right: WSU Students Leslie Williams (WSU), Greg Geise (WSU), Simon Mercurio (WSU), Jimmy Gonsiewski (WSU), Tom Jenkins (Eagon).
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Letters to the Editor and Editorial Submittal Guidelines

The Ohio Section welcomes and encourages membership discourse via the Section newsletter on relevant geopolitical and geological topics, in accordance with our chartered purpose. Contributing authors are requested to abide by the following guidelines to ensure civility and professionalism.

1. Scientific interpretations should include accurate and effective references.

2. Opinion pieces should be presented with reasoning. Fellow members may choose to comment or challenge a submittal with their own contribution.

3. Authors must abide by the AIPG Code of Ethics. Any author who violates this code will not be published. Authors must be respectful to fellow members, all political parties, officials and candidates.

4. Letters to the Editor should be under one page in 12 pt. Arial font.

5. Member authors should provide their name and certification number.

6. The Ohio Section also welcomes and will consider relevant articles from non-members, provided contributions abide by the above stated guidelines.

Contributions to the Ohio Section newsletter do not necessarily reflect the opinion of the Ohio Section or the editor. We reserve the right to edit for clarity and space considerations. Please send submittals to the editor at tbrown@hullinc.com.
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