

IWRA Symposium Committee
8204 Claridge Road
Indianapolis, IN 46260-4914

34th Annual Indiana Water Resources Association Conference

The State of the State's Waters



Co-Sponsored by
Indiana Water Monitoring Council

Ball State University Alumni Center
2800 West Bethel Avenue
Muncie, Indiana
June 19-21, 2013

www.iwra.info

WEDNESDAY, June 19, 2013

- 11:30 **Registration**
- 1:00 **Opening and Welcome**
Phil Bonneau, Ortman Drilling & Water Services
2013 President IWRA
- 1:05 **What Is a Public Water Supply System?**
Phil Bonneau, Ortman Drilling & Water Services
- 1:20 **Indiana's Water Utilities - How Will New Regulations Impact Cost and Compliance?**
Tom Bruns, Aqua Indiana
- 1:50 **Supporting Indiana's Water System Operators**
Jim Williams, Indiana Rural Water Association
- 2:05 **Assisting Small Community Water Systems**
Connie Stevens, Alliance of Indiana Rural Water
- 2:20 **Science and Water Availability**
Bill Guental, U.S. Geological Survey
- 2:50 **Break**
- 3:20 **Groundwater Resource Exploration: A Review of Geological and Geophysical Methods and Case Studies**
Mark Howell, Xenon Geosciences, Inc.
- 3:45 **S.W.I.G. - Safe Water in Guyana**
Jason Doerflein, Marion County Public Health Department
- 4:05 **Cross Connection Control Program**
James Probst, Test Gauge & Backflow Supply Indiana
- 4:25 **A Municipal Perspective to Managing Stormwater Quality and Quantity in a Wellhead Protection Area**
Bryan Wallace, Oak Park Conservancy District
- 4:45 **Partnering for Central Indiana's Future: The Mounds Lake Reservoir**
Jonathan LaTurner, DLZ Indiana LLC

- 5:45 **Poster Session/Social Hour/Cash Bar**
Seven poster presentations
- 7:15 **Banquet and Awards**
Water Needs and Growth in Central Indiana:
Ed Malone, Citizens Energy Group
Awards Presentation: Mark Basch, IWRA Awards Committee

THURSDAY, June 20, 2013

- (Breakfast on your own)
- 8:30 **Ten Ways to Reduce Nitrate Loads from Drained Cropland in Indiana**
Jane Frankenberger, Purdue University
- 8:55 **Estimation of Nonpoint Source Nitrate Concentrations in Indiana Rivers Based on Agricultural Drainage in the Watershed**
Yan Jiang, Purdue University
- 9:15 **Effects of Atrazine, Metolachlor, Carbaryl, and Chlorothalonil on Stream Sediment Nutrient Dynamics**
Daniel Elias, Ball State University
- 9:35 **Relationships Between Turbidity and Stream Nutrient Concentrations in an Agricultural Watershed**
Andrew Madison, Indiana University
- 9:55 **Break**
- 10:25 **Atrazine and Glyphosate Losses from Agricultural Fields: A Watershed Approach**
Javier Gonzalez, USDA ARS
- 10:45 **Monitoring a Two-Stage Ditch and Its Impact on Water Quality**
Andi Hodaj, Purdue University
- 11:05 **Assessing Sediment and Nutrient Transport at Wildcat Creek Watershed Through APEX Modeling**
Wendy Francesconi, USDA ARS

- 11:25 **Subsurface Hydrology Effects on Chemical Transport in Agricultural Drainage Ditches Using a 20 Meter Flume**
Colton Yoder, Purdue University
- 11:50 **Lunch (provided)**
- 1:10 **Regime Shift in a Large River Fish Community: Body Size Structure and Trophic Change**
Mark Pyron, Ball State University
- 1:35 **Why Do Flood Stages Keep Rising - Our Fault or Mother Nature's?!**
Siavash Beik, Christopher B. Burke Engineering, LLC
- 1:55 **Quantifying Hydrologic Budget Components in Indiana Using a Network of Meteorological and Vadose-Zone Instrument Arrays**
Shawn Naylor, Indiana Geological Survey
- 2:15 **Hydrological Investigations of Streambed Sediment Removal in the Fawn River**
Joseph Morgan, Indiana University
- 2:35 **Groundwater Flow Simulations in the Vicinity of Long Lake, Indiana Dunes National Lakeshore, Near Gary, Indiana**
David Lampe, U.S. Geological Survey
- 2:55 **Break**
- 3:25 **Surveying the Surveyors: Exploring Awareness, Attitudes, and Behavior among Indiana's Ditch Managers**
Nathan Mullendore, Purdue University
- 3:45 **The Indiana Water Monitoring Council's Groundwater Focus Committee: Achieving More Through Collaboration**
Randy Bayless, U.S. Geological Survey
- 4:05 **Statewide Maps of Hydrogeologic Properties**
Les Arihood, U.S. Geological Survey
- 4:25 **Indiana's Water Well Webviewer**
Randy Maier, IDNR Division of Water

(Dinner on your own)

- 8:00 **IWRA Business Meeting & Hospitality Hour**
All members and friends are welcome
- FRIDAY, June 21, 2013**
- (Breakfast on your own)
- 8:30 **Characterizing the Physical Hydrogeology at Ball State University's Ground-Source Geothermal System**
Lee Florea, Ball State University
- 8:55 **Assessing the Impacts of Geology and Groundwater Flow on the Ground-Source Geothermal System at Ball State University**
Carolyn Dowling, Ball State University
- 9:15 **The 2012 Drought: Water Rights and Water Use Update**
Mark Basch, IDNR Division of Water
- 9:35 **Groundwater Level Declines from Significant Water Withdrawal Facilities during the Drought of 2012**
Ginger Korinek, IDNR Division of Water
- 9:55 **Break**
- 10:25 **Condition of Indiana Streams and Rivers Using a Probabilistic Monitoring Program**
Todd Davis, IDEM Office of Water Quality
- 10:45 **The First Three Years of IDEM's Cyanobacteria Surveillance Program - Where We've Been and Where We're Headed**
Cyndi Wagner, IDEM Office of Water Quality
- 11:05 **The Wabash Sampling Blitz: Engaging the Local Community Around the Wabash River**
Rebecca Logsdon, Purdue University
- 11:25 **Conservation Cropping Systems Demonstration**
Tony Bailey, USDA NRCS
- 12:15 **Meeting Adjourned**

Registration

(Includes Wednesday banquet and Thursday lunch)

Registration Forms Received BEFORE / AFTER Wednesday, June 12, 2013

IWRA Member:	\$95 / \$125
Non-member:	\$125 / \$155
Student:	\$50 / \$60
1-day Member:	\$70 / \$100
1-day Non-member:	\$80 / \$110
Banquet Guest:	\$45 / \$45

Note: Registration **fees DO NOT** have to be received by June 12 in order to obtain the early bird rate. We **DO** need to receive registration **forms** by June 12. Fees may follow at a later date.

Lodging:
Holiday Inn Express
4201 West Bethel Avenue
Muncie, IN 47304
Phone: (765) 289-4678

Rates:
Standard Room (1 or 2 queen): \$77 per night plus tax
Standard King: \$87 per night plus tax

Participants are responsible for their own reservations. A block of rooms has been reserved for IWRA **until Monday May 27, 2013**. Ask for the "IWRA" rate.

For more information about the conference, please contact: Phil Bonneau, IWRA President
pbonneau@ortmandrilling.com or 765-438-8087.

Please circle the appropriate fees on the registration form. **Your 2013 IWRA membership status is shown on the mailing label of this announcement.** Contact Jeff Martin (317) 600 2748, or jdmartin@usgs.gov for questions about IWRA memberships or registration.

This is the thirty-fourth annual Indiana Water Resources Association Symposium. IWRA is a scientific and educational not-for-profit organization established to encourage interdisciplinary communication between persons working in all aspects of water resources. IWRA is an affiliate of the American Water Resources Association.

Indiana Water Resources Association Symposium
Ball State University Alumni Center, Muncie, IN

Name: _____ Daytime Phone: _____
 Organization/Company: _____ Zip: _____
 Mailing Address: _____ State: _____ Amount Enclosed: _____
 City: _____
 E-Mail Address: _____

Registration received by June 12, 2013	\$ 95 Member	\$125 Non-member	\$50 Student	\$70 1-day Member	\$80 1-day Non-member
Received after June 12, 2013	\$125 Member	\$155 Non-member	\$60 Student	\$100 1-day Member	\$110 1-day Non-member
Single day:	(Please check which day: Wed. _____ Thurs. _____ Fri. _____)		\$45 Banquet Guest		

If registration fees are not enclosed, please explain when IWRA will receive payment.

Please help us plan by placing an 'X' in the appropriate blank: I request vegetarian meals: yes ___ no ___
 I plan to attend the Wednesday banquet: yes ___ no ___ I plan to attend the Thursday lunch: yes ___ no ___

Make checks payable to: **Indiana Water Resources Association**
 Return registration form and fees to: Jeff Martin, IWRA Registrar, 8204 Claridge Road, Indianapolis, IN 46260-4914