

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

**32nd Annual
Indiana Water Resources
Association Conference**

**Featuring:
The Wabash River Watershed:
Assessment, Management,
and the Future**



**Co-Sponsored by
Professional Geologists of Indiana
and
Indiana Water Monitoring Council**

**Ball State University Alumni Center
2800 West Bethel Avenue
Muncie, Indiana
June 1-3, 2011**

www.iwra.info

WEDNESDAY, June 1, 2011

- 11:30 Registration**
- 1:00 Opening and Welcome**
Mark Pyron, Ball State University
2011 President IWRA
- 1:15 TNC's Initial Strategies for a Lasting Contribution in the Wabash Watershed**
John Shuey, The Nature Conservancy
- 1:45 Evaluation of Constructed Wetlands in Agricultural Watersheds to Improve Drinking Water Quality**
Maria Lemke, The Nature Conservancy
- 2:15 Asian Carp Know No Boundaries**
David Nance, IDNR Division of Water
- 2:55 Break**
- 3:25 A Process-Based Restoration Approach for the Wabash River Ecosystem**
Mark Pyron, Ball State University
- 3:45 SWAT Model for the Wabash River Watershed: Modeling Challenges and Opportunities**
Raj Cibin, Purdue University
- 4:05 Wabash River Angler, Recreational, and Commercial Fisher Activity Survey**
Sandy Clark-Kolaks, IDNR
- 4:25 Comparison of Water Quality in Three Sub-Watersheds of the Wabash River**
Ron Turco, Purdue University
- 4:45 Indianapolis' Deep Tunnel Vision for Capturing Combined Sewer Overflows**
John Morgan, Indianapolis DPW; John Trypus, Black & Veatch
- 6:00 Poster Session/Social Hour/Cash Bar**
Eight student poster presentations
- 7:30 Banquet and Awards**
Awards Presentation: Mark Basch, IWRA
Awards Committee

THURSDAY, June 2, 2011

- (Breakfast - on your own)**
- 8:30 Influence of Subsurface Drainage on Watershed Nitrate Load Using the Variable Infiltration Capacity Model**
Sarah Rutkowski, Purdue University
- 8:55 Transport and Fate of Nutrients and Pharmaceutical Compounds in a Stream Receiving Effluent from a Wastewater Treatment Plant**
Erin Looper, Indiana University
- 9:15 Hormone Transport in a Tile-Drained Agroecosystem**
Heather Gall, Purdue University
- 9:35 Response of Algal, Invertebrate, and Fish Communities to Nutrients in the Upper Midwest**
Jeff Frey, USGS; Shivi Selvaratnam, IDEM
- 9:55 Break**
- 10:25 Sampling for Atrazine Contamination: How Many Samples Are Needed to Determine Drinking Water Suitability?**
Elizabeth Pappas, USDA ARS
- 10:45 Physical and Hydrologic Characteristics of the North Branch Elkhart River**
David Nance, IDNR Division of Water
- 11:05 Determination of Wetlands for Restoration Using Streamflow Statistics and Flood Inundation Techniques**
Moon Kim, USGS
- 11:25 Hydrologic Characteristics of a Managed Wetland and a Natural Riverine Wetland along the Kankakee River**
Les Arihood, USGS
- 11:50 Lunch (provided)**

THURSDAY, June 2, 2011 (continued)

- 1:10 Hydraulic Fracturing for Oil and Natural Gas**
Herschel McDivitt, IDNR Division of Oil and Gas
- 1:45 Evaluation of Groundwater Systems Near the Proposed Fall Creek/White River Tunnel System, Indianapolis**
Paul Johnson, American Structurepoint, Inc.
- 2:05 Concern for Groundwater Protection along the Wabash River Greenway, Tippecanoe County, Indiana**
Terry West, Purdue University
- 2:25 Indiana's Water Well Web Viewer**
Randy Maier, IDNR Division of Water
- 2:55 Break**
- 3:25 Collembola/Springtails: Microbiologic Indicators of Microbiologic Activity Surrounding a Hydrocarbon Release**
Bob Autio, Environmental Data & Consulting, LLC
- 3:45 Statewide Ground Water Monitoring Network**
Rebecca Travis, IDEM Drinking Water Branch
- 4:05 Baseline Hydrogeology of the First Phase Ground-Source Geothermal Field at Ball State University**
Alan Samuelson, Ball State University
- 4:25 Use of Geophysical Imaging for Characterizing Subsurface Conditions at Large-Scale Geothermal Wellfields**
John Mundell, Mundell & Associates, Inc.
- 4:45 Walking Tour of the Ball State Geothermal Project**
Carolyn Dowling, Ball State University
- 6:00 Dinner (on your own)**
- 8:00 IWRA Business Meeting & Hospitality Hour**
All members and friends are welcome

FRIDAY, June 3, 2011

- (Breakfast - on your own)**
- 8:30 Long-Term Effects of Natural Flow Regime Mimicry on Native and Nonnative Fishes in the San Juan River, New Mexico and Utah**
Keith Gido, Kansas State University
- 9:05 Changing Water Quality: Impacts of Invasive Shrubs on Aquatic Ecosystems**
Richard Durtsche, Northern Kentucky University
- 9:30 Do Agricultural Management Practices Improve Water Quality? A Case Study in Sugar Creek**
Jeff Frey, USGS
- 9:50 The Great Lakes Compact**
Mark Basch, IDNR Division of Water
- 10:10 Break**
- 10:40 Indiana's Revised Water Quality Monitoring Strategy, 2011-2019**
Jody Arthur, IDEM Office of Water Quality
- 11:00 IDEM's Blue-Green Algae Surveillance Program**
Cyndi Wagner, IDEM Office of Water Quality
- 11:20 How Good Is Your Number? Part 1: Measurement Variability**
Jeff Martin, USGS
- 11:45 Conference Wrap-Up**
Mark Pyron, Ball State University
2011 President IWRA
- 12:00 Meeting Adjourned**

Registration

(Includes Wednesday banquet and Thursday lunch)

Received by Wednesday, May 25, 2011

IWRA Member:	\$ 95.00
Non-member:	\$125.00
Student:	\$ 50.00
1-day Member:	\$ 70.00
1-day Non-member:	\$ 80.00

Received after Wednesday May 25, 2011

IWRA Member:	\$125.00
Non-member:	\$155.00
Student:	\$ 60.00
1-day Member:	\$100.00
1-day Non-member:	\$110.00
Banquet Guest:	\$ 45.00

Note: Registration fees DO NOT have to be received by May 25 in order to obtain the early bird rate. We DO need to receive registration forms by May 25. 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: \$77.00 per night plus tax
Junior Suite: \$89.00 per night plus tax
Suite: \$120.00 per night plus tax

Participants are responsible for their own reservations. A block of rooms has been reserved for IWRA **until Wednesday May 18, 2011**. Ask for the "IWRA" rate.

For more information about the conference, please contact:

Mark Pyron, IWRA President
MPYRON@bsu.edu or 765-285-8852

Please circle the appropriate fees on the registration form. **Your 2011 IWRA membership status is shown on the mailing label of this announcement.** Contact Jeff Martin (317) 290-3333 ext. 148, or jdmartin@usgs.gov for questions about IWRA memberships or registration.

This is the thirty-second 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: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

E-Mail Address: _____ Amount Enclosed: _____

Registration received by May 25, 2011	\$ 95 Member	\$125 Non-member	\$50 Student	\$70 1-day Member	\$80 1-day Non-member
Received after May 25, 2011	\$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 _____