

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

**31st Annual
Indiana Water Resources
Association Conference**

**Featuring:
Indiana Waters:
Emerging Waters,
Emerging Contaminants,
Emerging Communities**



**Co Sponsored by
Purdue University Water Community**

**Stewart Center
Purdue University
West Lafayette, Indiana
May 26-28, 2010**

www.iwra.info

WEDNESDAY, May 26, 2010

- 11:30 Registration**
- 1:00 Opening and Welcome**
Leighanne Hahn, OISC
2010 President IWRA
Jon Harbor, Interim Director, Global Sustainability Initiative, Purdue University
- 1:20 Emerging Contaminants: New Challenges for The Water Resources Community**
Sheridan Haack, Hydrologist RGE
Hydrologic Studies Section, USGS
- 2:10 Who is Monitoring What in Indiana**
Laura Esman, Purdue University
- 2:30 Bob and Tom Recite the Three R's of Agency Water Quality: Roles, Rules and Research Opportunities**
Bob Waltz, Indiana State Chemist, OISC
Tom Easterly, Commissioner, IDEM
- 3:20 BREAK**
- 3:50 Cyanobacterial Occurrence and Toxicity in Indiana Lakes and Reservoirs**
Lenore Tedesco, IUPUI Center for Earth and Environmental Sciences
- 4:10 Disinfection of Drinking Water Using Solar UV: A Low Cost System**
Eric Gentil Mbonimpa, Purdue University
- 4:30 Water Quality Problem? Conservation Practices & Programs to the Rescue!**
Tony Bailey, USDA- NRCS
- 4:50 Using Social Information to Guide Outreach Activities in Watersheds**
Linda Prokopy, Purdue University
- 6:00 Social Hour/Cash Bar**
Shively Center
Ross-Aide Stadium Pavilion
- 7:00 Banquet, Awards, & Entertainment**
Awards Presentation: Mark Basch, IDNR
Entertainment: Lost Water Boys

THURSDAY, May 27, 2010

- (Breakfast - on your own)**
- 8:00 Trends in Pesticide Concentrations and Use for Corn-Belt Rivers**
Jeff Martin, USGS
- 8:20 Optimizing Drinking Water Treatment for Removal of Organics**
Jeff Robinson, Indiana -American Water
- 8:40 Assessing Groundwater Transport of Nitrates and Other Nonpoint Source Pollutants to Surface Waters**
Daniel Abrams, Indiana University, SPEA
- 9:00 Subsurface Drainage Influence on Stream flow Components in Agricultural Watersheds of Indiana**
Srinivasulu Ale, Purdue University
- 9:20 Nitrate-N Loads to Subsurface Drains as Affected by Drainage Intensity and Agronomic Management Practices**
Eileen Kladvko, Purdue University
- 9:40 Nutrient Attenuation Under Natural Conditions in Agricultural Drainage Ditches**
Indrajeet Chaubey, Purdue University
- 10:00 Break**
- 10:30 Alternatives to Tile Risers for Management of Cropped Prairie Pot-Holes**
Douglas Smith, Research Soil Scientist, USDA
- 10:50 Drainage Water Management in the Midwest**
Jane Frankenberger, Purdue University
- 11:10 The Nature Conservancy: Celebrating 50 Years of Science and Service in Indiana**
Larry Clemens, The Nature Conservancy
- 11:50 Lunch (provided)**

THURSDAY, May 27, 2010 (continued)

- 1:20 The Application of 2-Stage Ditches in Agricultural Landscapes**
Joe Draper, The Nature Conservancy
- 1:40 Assessment of Nutrient Eutrophication using Algal, Fish and Invertebrate Indices in Two Midwest Eco Regions**
Jeff Frey, USGS
- 2:00 Middle Eel River Initiative: Holistic Approach to Understanding Temporal & Spatial Variability of Stream Ecosystem**
Jerry Sweeten, Manchester College
- 2:20 The Wabash Sampling Blitz: Results from Fall 2009 & Spring 2010**
Sara Peel, Wabash River Enhancement Corp
- 2:40 Fish Assemblages of Wabash River: A GIS with Bathymetry, Water Velocity, Sediment and Woody Debris**
Mark Pyron, Ball State University
- 3:00 Break**
- 3:30 USGS SuperGage, White River at USHWY41 at Hazleton, IN the Road to Real-time Estimates**
Tim Lathrop, USGS
- 3:50 Effects of Land Change on Hydrology of Indiana**
Sanjiv Kumar, Purdue University
- 4:10 The Impact of Urban Development Patterns on Hydrologic Regime**
Guoxiang Yang, Purdue University
- 4:30 Green Infrastructure Master Implementation Plan: Indianapolis**
Jean Wodarek, Williams Creek Consulting
- 5:00 Dinner (on your own)**
- 8:00 IWRA Business Meeting & Hospitality Hour**
All members and friends are welcome

FRIDAY, May 28, 2010

(Continental Breakfast - provided)

- 8:00 Visualizing Indiana Soil Landscapes**
Darrell Schulze, Purdue University
- 8:20 Bedrock High in Glacial Terrain Yields Groundwater and Construction Problems**
Terry West, Purdue University
- 8:40 Water Security and Sustainability Reporting - An Ounce of Review is Worth a Pound of Cure**
Phil Odenkirk, Santis Environmental, Inc.
- 9:00 Evaluating the Performance of Sulfate-Reducing Bioreactor Cells for Treating Acid Mine Seep in SW Indiana**
Tracy Branum, IN Geological Survey
- 9:20 Analysis of Pharma & Personal Care Products from Indy Surface Waters Solid-Phase Extract & LC/MS/MS Spec**
Carl Damon, Heritage Environmental Group
- 9:40 Temporal Variation of Pharmaceuticals in Indiana Streams**
Allison Veach, Ball State University
- 10:00 Assessing Water Quality of Tile Drains and Agricultural Ditches with a Novel Sampling Strategy**
Heather Gall, Purdue University
- 10:30 Laboratory and/or Field Research Tours**
Aquaculture Research Laboratory & Environmental Field Monitoring of Tile Drains
Office Indiana State Chemist Analytical Lab & Hydromechanics Research Laboratory
- 12:00 Meeting Adjourned**

Registration

(Includes Wednesday banquet, Thursday lunch, Friday breakfast, and hospitality hour!)

Received by May 20, 2010

IWRA Member:	\$ 90.00
Non-member:	\$110.00
Student:	\$ 45.00
1-day Registration:	\$ 65.00

Received after May 20, 2010

IWRA Member:	\$110.00
Non-member:	\$130.00
Student:	\$ 50.00
1-day Registration:	\$ 75.00
Banquet Guest	\$ 45.00

Lodging:
"Indiana Water Resources Association"
Purdue Memorial Union
101 N. Grant Street
West Lafayette, IN 47906
Phone: (765) 494-8900
Fax: (765) 494-8924
Email: UnionClubHotel@purdue.edu
<http://www.union.purdue.edu/>

Rate:
Standard Room \$92.00 per night

Hawkins-Residence Halls
Standard Room \$42.00 per night
Contact: Lindsay Roberts (765) 494-1898

Participants are responsible for their own reservations. **A block of rooms has been reserved for IWRA until Thursday May 20, 2010.** Ask for the "IWRA" rate.

For more information about the conference, please contact:
Leighanne Hahn, IWRA President
hahn@purdue.edu or 765 427-3472

Please circle the appropriate fees on the registration form. **Your 2010 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.

This is the thirty-first 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
Purdue Memorial Union Club Hotel, West Lafayette, IN**

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

Fees: Received by May 20, 2010	\$ 90 Member	\$110 Non-member	\$45 Student
Received after May 20, 2010	\$110 Member	\$130 Non-member	\$50 Student
Single day:	\$ 75 (Please check which day: Wed. ____ Thurs. ____ Fri. ____)	\$45 Banquet Guest	

Please help us plan by placing an 'X' in the appropriate blank:
I plan to attend the Wednesday Banquet: yes ___ no ___.