



## 43<sup>rd</sup> Annual Indiana Water Resources Association Symposium

Indiana Water Resources Association  
MADE@Plainfield, Plainfield, IN  
November 7, 2024

WiFi (no pw needed): MADE@ Public

8:00 am – 9:00 am	<b>Registration and coffee hour</b>
9:00 – 9:40	<b>Intro and ice breaker – Dave Lampe, US Geological Survey</b>
9:40 – 10:20	<b>10 year update of the Indiana Chamber of Commerce water study</b> Jack Wittman, INTERA
10:20 – 10:40	<b>Break</b>
<b>SESSION MODERATOR: Garth Lindner, Indiana Department of Natural Resources, Division of Water</b>	
10:40 – 11:00	<b>Characterizing drought to inform regional water planning in the Central Indiana Region</b> Luke Johnstone, Mundell and Associates
11:00 – 11:20	<b>Can we have healthy rivers and streams as our climate changes?</b> Bob Barr, CEES, Indiana University - Indianapolis
11:20 – 11:40	<b>Fish assemblages of the Wabash River prior to modification of upstream dam releases</b> Mark Pyron, Ball State University
11:40 – 12:00	<b>The Listening Year at Big Walnut Creek</b> Eliza Brown, DePauw University
12:00 – 12:10	<b>Poster session intro – Laura Esman, Indiana Water Resources Research Center</b>
12:10 – 1:30	<b>Lunch available onsite (included in the meeting registration fee)</b> <b>POSTER SESSION</b>
<b>SESSION MODERATOR: Mark Basch, Indiana Department of Natural Resources, Division of Water</b>	
1:30 – 1:50	<b>Using 3-D geologic modeling to understand groundwater monitoring data</b> Liberty Flora, INTERA
1:50 – 2:10	<b>Collaboration and coordination of efforts for the development of successful, long-term water quality monitoring programs</b> Katherine Barrett and Shae Medlen, St. Joseph River Commission, Notre Dame University
2:10 – 2:30	<b>Break</b>
<b>SESSION MODERATOR: Jit Weir, Indiana Department of Environmental Management</b>	
2:30 – 2:50	<b>Laboratory experiment on fate and transport of eDNA on clean and loaded streambeds</b> Kush Paliwal*, Purdue University
2:50 – 3:10	<b>Nutrient stoichiometry influences phytoplankton community composition and dissolved organic matter in the lower Ohio River</b> Lindsey Rasnake*, Indiana University - Bloomington
3:10 – 3:30	<b>School Branch tile drain study: Assessing variability of discharge, nutrients, and <i>E. coli</i> from tile drains in a small agricultural watershed</b> Aubrey Bunch, US Geological Survey
3:30 – 3:50	<b>USGS Next Generation Monitoring of groundwater/surface-water interaction and nutrients along the Kankakee River</b> Matthew Hardebeck, US Geological Survey
3:50 – 4:10	<b>Memorial presentations for Scott Morlock (USGS) and Harold Templin (IDEM)</b> Mark Basch, Indiana Department of Natural Resources
4:10 – ~4:30	<b>Wrap up</b>

\* denotes student presenter

## Poster presentations:

Presenter, Affiliation	Presentation Title
Maddie Milharcic* and Jane Frankenberger, Purdue University	Visualizing Indiana county water withdrawals by use and month
Ayomide Adepeju*, Purdue University	Simulation of the effect of groundwater storage and withdrawals in the Wabash River Basin
Vikas Poonia, Indiana University - Indianapolis	Characterizing flash drought duration and frequency across the Midwest USA
Ayobami Oni*, Purdue University	3-D Groundwater flow measuring device
Tian Yang*, Indiana University - Bloomington	Climatology and trends of drought-flood abrupt alternation events in the contiguous United States: A focus on Indiana
Yu Peng*, Indiana University - Indianapolis	Combined effects of cover cropping and no-tillage on leachate nitrate and greenhouse gas emissions under producer-managed fields
Nileshwari Yewle, Purdue University	Enhancing remote sensing techniques for monitoring and mitigating harmful algae blooms in north-central United States inland waters
Mya Whaley*, Indiana State University	Microplastics and heavy metals in crayfish and sediments: a comparative analysis between pollution accumulation in streams and retention ponds in Hamilton County, Indiana
Justin VanGilder*, Indiana State University	The utilization of crayfish as indicators of stream health in Indiana streams
Morgan Ball*, Gwyneth Martin*, Ella Gallagher*, Earlham College	Whitewater River weir dam post-removal assessment, Richmond, Indiana
Katherine Liu*, Earlham College and Indiana University - Bloomington	Coarse grain size and mobile sediment result in minimal contaminant storage behind a low-head dam in Richmond, Indiana
James Probst, Winstel Controls Inc.	State backflow protection regulations and water utility responsibilities introduction
Eliza Brown, DePauw University	The Listening Year at Big Walnut Creek (audio station)

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## Indiana Water Resources Association – Student Scholarship Donations (2023-2024)

Thank you to our generous donors: Bob Autio, Tony Bailey, Mark Basch, Laura Bowling, Keith Cherkauer, Ginger Davis, Kathleen Fowler, Jane Frankenberger, Jeff Frey, Art Garceau, Rajindra Gosine, Rosemarie Hansell, Luke Johnstone, Dave Knipe, David Lampe, Sally Letsinger, Martha Clark Mettler, Greg Nethery, Klaus Neumann, Andrew Pappas, Mark Pyron, Monique Riggs, Chris Ritz, Joe Schmees, Troy Weaver, John Wilson, Oliver Wittman, and Lorraine Wright.

Join us Nov 7 at:  
**MADE@Plainfield**  
1610 Reeves Road  
Plainfield, IN 46168



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