



**Registration is now open for the  
Indiana Water Monitoring Council 2017 Symposium,  
Co-sponsored by the Indiana Water Resources Association**

## **Modified Flows and Their Impact on Stream and Lake Ecosystems**

### **When & Where**

**Date:** Tuesday, November 28, 2017

**Time:** 9:00 a.m. to 4:00 p.m. (Check-in begins at 8:30 a.m.)

**Location:** Indiana Government Center South, Conference Rooms B & C

**Address:** 302 W Washington St., Indianapolis, IN 46204

There are no fees to attend the symposium but registration is required. [Please visit the Indiana Water Monitoring Council events page to complete your registration.](#)

The Indiana Water Monitoring Council also invites you to join us for a social hour immediately following the symposium at Loughmiller's Pub & Eatery located at 301 West Washington Street just across the street from the Indiana Government Center. All symposium attendees are welcome to attend.

**Agenda on Following Page**

## Morning Agenda

8:30 – 9:00 am	<b>Registration and Check-in</b>
9:00 – 9:25 am	<b>Welcome &amp; Opening Remarks (Jeremy Webber)</b> <b>Presentation: <i>Symposia past and present</i></b> <ul style="list-style-type: none"> <li>• What are some of the outcomes from previous Symposia?</li> <li>• What do we hope to get out of this one?</li> </ul>
9:25 – 9:50 am	<b>Presentation: <i>What are ecological flows, why are they important? (pertinent laws or lack of laws?)</i></b> <b>Presenter:</b> Howard Reeves, USGS Michigan Water Science Center
9:50 – 10:15 am	<b>Presentation: <i>Competing needs for water? Ag, urban, ecology (Indiana Water Shortage Report)</i></b> <b>Presenter:</b> Jack Wittman, INTERA
10:15 – 10:40 am	<b>Presentation: <i>Ecoflows and climate change: What can we expect from climate change models?</i></b> <b>Presenter:</b> Melissa Widhalm, Purdue University
10:40 – 11:00 am	<b>Break</b>
11:00 – 11:25 am	<b>Presentation: <i>Ecoflows tool: Indicators of Hydrologic Alteration in the context of Indiana streams</i></b> <b>Presenter:</b> Mark Pyron, Ball State University
11:25 – 11:50 am	<b>Presentation: <i>Development of ecological flow indicators for Ohio streams and rivers</i></b> <b>Presenter:</b> Ed Rankin, Midwest Biodiversity Institute
11:50 – 1:00 pm	<b>Time for Networking and Lunch (on your own)</b>

## Afternoon Agenda

1:00 – 1:25 pm	<b>Presentation: <i>Modified flows in the Ohio River watershed: Issues and successes</i></b> <b>Presenter:</b> Steven Foster, USACE Huntington District
1:25 – 1:50 pm	<b>Presentation: <i>Ecoflows: More than just how much</i></b> <b>Presenter:</b> Bob Barr, Indiana University-Purdue University at Indianapolis
1:50 – 2:15 pm	<b>Presentation: <i>Using Small Unmanned Aerial Systems (sUAS) to Monitor Channel Realignment and Ecoflows of the Swan River Restoration in Summit County Colorado</i></b> <b>Presenter:</b> Jeremy Webber, Indiana University-Purdue University at Indianapolis
2:15 – 2:35 pm	<b>Break</b>
2:35 – 3:00 pm	<b>Presentation: <i>More sustainable rivers</i></b> <b>Presenter:</b> John Stark, The Nature Conservancy
3:00 – 3:25 pm	<b>Presentation: <i>Biological community responses to flow alteration: Regional and national patterns</i></b> <b>Presenter:</b> Daren Carlisle, USGS
3:25 – 4:00 pm	<b>Discussion: <i>What are the next steps</i></b> <b>Moderator:</b> Jeff Frey, USGS Ohio, Kentucky, Indiana Water Science Center
4:00 – 5:30 pm	<b>Indiana Water Monitoring Council Social Hour at Loughmiller's Pub &amp; Eatery (All symposium attendees are invited).</b> (Loughmiller's is located at 301 West Washington Street just across the street from the Indiana Government Center South)