

Improving Models of Nutrient Loading and Harmful Algal Blooms through a Watershed-scale Approach that Emphasizes Soil Health and Upland Farming Practices

A summit sponsored by the Cooperative Institute for Great Lakes Research (CIGLR)

July 16-18, 2018
University of Michigan
Ann Arbor, MI

Steering Committee

Tom Zimnicki, *Michigan Environmental Council*
Robyn Wilson, *Ohio State University*
Craig Stow, *NOAA-GLERL*
Mark Rowe, *University of Michigan-CIGLR*

Day 1: Monday, July 16

6:00 – Dinner at Arbor Brewing Company (114 E. Washington St. Ann Arbor, 48104)

Keynote: *How agriculture can and must adapt to environmental risk, evolving consumer demands, and shrinking bottom lines* – Tim Boring, Vice President of the Michigan Agribusiness Association

Day 2: Tuesday, July 17

Location- 1046 Dana Building (440 Church St. Ann Arbor, 48109)

8:00-8:30 - Check in/continental breakfast

8:30-8:45 - *Summit welcome, overview and goals* – Brad Cardinale, Director of CIGLR and Tom Zimnicki, Agriculture Policy Director at the Michigan Environmental Council

8:45-9:15 - *Soil health: what is it, how do we measure it, how can we change it?* – Janice Thies, Associate Professor at Cornell University

9:15-9:45 - *Modeling watersheds: what can it tell us?* – Margaret Kalcic, Assistant Professor at Ohio State University

9:45-10:15 - *Emerging efforts to connect soil health and water quality using COMET-Farm* – Yao Zhang, Postdoc at Colorado State University

10:15-10:30 - Q&A / Break

10:30-11:00 - *Measuring soil health and edge-of-field water quality: An ongoing effort between UW-Green Bay, Purdue University, and GLRI* – Mathew Dornbush, Director of Graduate Studies and Kevin Fermanich, Professor at the University of Wisconsin Green Bay

11:00-12:00 - Facilitated discussion: Setting the context and outlining discussion goals

12:00-12:45 - Lunch (provided onsite)

12:45-3:30 - Breakout sessions: Connecting soil health and water quality (Rooms 3552 and 3556)

3:30-3:45 - Break

3:45-5:00 - Facilitated discussion: Report out from breakout session

6:00 - Dinner at Vinology (110 S. Main St. Ann Arbor, 48104)

Day 3: Wednesday, July 18

Location- 1046 Dana Building (440 Church St. Ann Arbor, 48109)

8:00-8:30 - Continental breakfast (provided on site)

8:30-10:30 - Facilitated discussion: Unresolved questions, issues and wading through the weeds

10:30-12:00 - What's next: Research needs, deliverable from this event, continuing the dialogue

12:00 - Adjourn (Boxed lunch provided)

Thank you for attending!!

Participants

Jeremiah Asher, *Michigan State University*

Jennifer Blesh, *University of Michigan*

Tim Boring, *Michigan Agri-Business Association*

John Bratton, *LimnoTech*

Rem Confessor, *Heidelberg University*

Libby Dayton, *Ohio State University*

Mathew Dornbush, *University of Wisconsin-Green Bay*

Grey Evenson, *Ohio State University*

Kevin Fermanich, *University of Wisconsin-Green Bay*

Brad Garmon, *Michigan Environmental Council*

Zachary Hayden, *Michigan State University*

Laura Johnson, *Heidelberg University*

Margaret Kalcic, *Ohio State University*

Douglas Karlen, *USDA - Agricultural Research Service*

Shamitha Keerhi, *The Nature Conservancy*

Luis Leon, *Environment and Climate Change Canada*

Mark Rowe, *NOAA - Great Lakes Environmental Research Laboratory*

Ryan Smith, *Delta Institute*

Craig Stow, *NOAA - Great Lakes Environmental Research Laboratory*

Janice Thies, *Cornell University*

Robyn Wilson, *Ohio State University*

Yao Zhang, *Colorado State University*

Tom Zimnicki, *Michigan Environmental Council*