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on
Great Lakes Research

*June 2 - 6, 2013
West Lafayette, Indiana*



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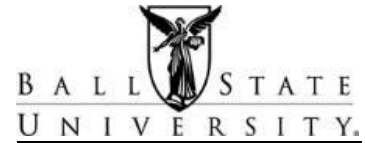


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56th Annual Conference on Great Lakes Research



Great Lakes Restoration and Resiliency

June 2-6, 2013

Purdue University
West Lafayette, Indiana

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Conference Exhibitors

Exhibits open daily 9am-5pm; Monday from 9am-8pm



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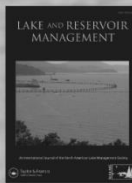
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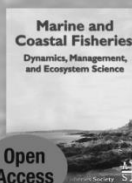
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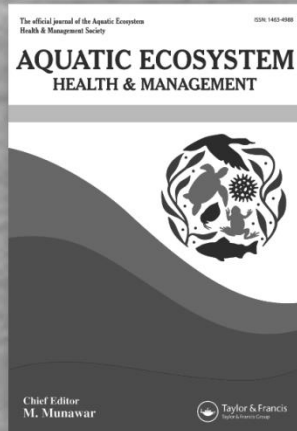
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Calendar of Events

Sunday, June 2

8:30am-4:00pm	IAGLR Board Meeting, Purdue Memorial Union, Room 103
4:00pm-6:30pm	Registration, East Foyer, Stewart Center
5:00pm-7:30pm	Welcome Reception Purdue Memorial Union, South Ballroom (light refreshments provided.)

Monday, June 3

7:00am-5:30pm	Registration, East Foyer, Stewart Center
7:30am-7:30pm	Teacher Workshop and Lunch, Purdue Memorial Union, Anniversary Drawing Room
7:30am-4:00pm	Poster set-up, Stewart Center, Rooms 310, 311, 313 & 318
8:00am-10:40am	Concurrent Sessions, Stewart Center
9:20am-9:40am	Morning Break, Stewart Center, Rooms 302 & 306
10:40am-12:10pm	Welcome Ceremony Mitch Daniels, Purdue University President Loeb Playhouse, Stewart Center, First Floor Plenary by Kenneth Rose Loeb Playhouse, Stewart Center, First Floor
12:10pm-1:40pm	Lunch on your own
1:40pm-5:40pm	Concurrent Sessions, Stewart Center
3:20pm-3:40pm	Afternoon Break, Stewart Center, Rooms 302 & 306
5:30pm-6:30pm	Editors' Reception, Stewart Center, Ringel Gallery, by invitation only
5:30pm-7:30pm	Poster Session Stewart Center, Third Floor (light refreshments provided.)
7:00pm-9:00pm	<i>University of Michigan, School of Natural Resources and Environment – Alumni, Faculty, and Student Reception hosted by Professor Jim Diana</i> Nine Irish Brothers, 119 Howard Ave, West Lafayette, IN 47906 All U of M alumni, faculty and current students are welcome to attend!
8:00pm-10:00pm	Student Social Lafayette Brewing Company, 622 Main Street, Lafayette, IN 47901 (Downtown Lafayette) In addition to in-house craft brewing, the Lafayette Brewing Company offers free pool, foosball, and corn hole. All students are welcome to enjoy an evening of informal networking and activities at one of historic downtown Lafayette's signature venues. Appetizers will also be provided. Must be 21 years old to participate.

Tuesday, June 4

7:30am-5:30pm	Registration, East Foyer, Stewart Center
7:40am-10:40am	Concurrent Sessions, Stewart Center
9:20am-9:40am	Morning Break, Stewart Center, Rooms 302 & 306

10:40am-12:10pm	Presentation of IAGLR Scholarships and Awards Loeb Playhouse, Stewart Center, First Floor
	Plenary by Yvonne Vadeboncoeur Loeb Playhouse, Stewart Center, First Floor
12:10pm-1:40pm	IAGLR Business Lunch Purdue Memorial Union, North and South Ballrooms
1:40pm-5:40pm	Concurrent Sessions, Stewart Center
3:20pm-3:40pm	Afternoon Break, Stewart Center, Rooms 302 & 306
5:30pm-6:30pm	Illinois-Indiana Sea Grant Reception Purdue Memorial Union, East and West Main Lounges Join with one of the conference hosts as the organization celebrates its 30 th anniversary. Light refreshments provided.
6:30pm-9:30pm	IAGLR Banquet Purdue Memorial Union, North and South Ballrooms

Wednesday, June 5

7:30am-5:30pm	Registration, East Foyer, Stewart Center
8:10am-10:40am	Concurrent Sessions, Stewart Center
9:20am-9:40am	Morning Break, Stewart Center, Rooms 302 & 306
10:40am-12:10pm	Presentation of IAGLR Scholarships and Awards Loeb Playhouse, Stewart Center, First Floor
	Plenary by Keith Bowers Loeb Playhouse, Stewart Center, First Floor
12:10pm-1:40pm	Lunch on your own
1:40pm-5:40pm	Concurrent Sessions, Stewart Center
3:20pm-3:40pm	Afternoon Break, Stewart Center, Rooms 302 & 306
6:00pm-9:00pm	Barbecue and Lawn Games The Trails Banquet Facility, 325 Burnetts Rd, West Lafayette, IN 47906 Pulled pork barbecue, corn-on-the-cob and other Midwestern delights. Transportation will be provided but parking on-site is also available. Busses departing the Purdue Memorial Union starting at 5:30 p.m. to return between 8:30 and 9:15 p.m.

Thursday, June 6

7:30am-12:00pm	Registration, East Foyer, Stewart Center
8:10am-10:40am	Concurrent Sessions, Stewart Center
9:20am-9:40am	Morning Break, Stewart Center, Rooms 302 & 306
10:40am-12:10pm	Presentation of IAGLR Scholarships and Awards Loeb Playhouse, Stewart Center, First Floor
	Plenary by Dave Schwab Loeb Playhouse, Stewart Center, First Floor
12:10pm-1:40pm	Lunch on your own
1:40pm-5:40pm	Concurrent Sessions, Stewart Center
3:20pm-3:40pm	Afternoon Break, Stewart Center, Rooms 302 & 306

Restoration Projects



If you are driving to the conference and need to stretch your legs, stop off and view some restoration projects near Lake Michigan. For a complete colored map, project history and links, visit the Restoration page on the IAGLR website – www.iaglr.org/iaglr2013/venue/restoration-projects

Note that the map depicts approximate locations of each site. Restoration projects listed are being managed and/or supported by the Indiana DNR Lake Michigan Coastal Program, the Indiana Dunes National Lakeshore, the Nature Conservancy, and the Shirley Heinze Land Trust.

Ambler Flatwoods

Ambler Flatwoods consists of over 300 acres of woodlands, which contain many plant species that are rare to Northwestern Indiana.

Indiana Dunes State Park

The Indiana Dunes State Park hosts numerous restoration sites. If you arrive in time for an Interpretive Naturalist program, you may get a full introduction to stream, wetland, bog, and upland restoration stories.

The Cowles Bog Restoration Complex

The Cowles Bog Restoration Complex is a 200-acre site that is being restored to a wet prairie ecosystem with forbs, sedges, and grasses. During the past 10 years, active restoration has included removal of hybrid cattail, which has dominated the site since the 1970s, and installation of native plants that have been established from seed in the park's greenhouses. You can visit both the complex and the greenhouses that are close to park headquarters on Mineral Springs Road. This wetland complex is a National Natural Landmark. For more information about either of this site or to arrange a personal tour, please contact: Joy Marburger, 219-395-1544, Joy_Marburger@nps.gov. Tours can be arranged for June 1 or 2.

Mnoke Prairie

Mnoké Prairie is a 120-acre restoration project that was farmed for decades before becoming the only known prairie with loamy soils in Indiana Dunes National Lakeshore. Today, park staff and volunteers are ridding the area of exotic plants,

collecting seed from existing patches of prairie vegetation, propagating plants in greenhouses, and planting to establish and expand native plant populations and provide habitat for wildlife. Carefully planned and executed controlled fires now replicate the effects of historic fires and tip the balance in favor of deep rooted prairie plants. For more information about either of this site or to arrange a personal tour, please contact: Joy Marburger, 219-395-1544, Joy_Marburger@nps.gov. Tours can be arranged for June 1 or 2.

Northwestern Indiana Regional Planning Commission

The Northwestern Indiana Regional Planning Commission has installed native plants in a landscaping demonstration project at its office.

Cressmoor Prairie

Cressmoor Prairie is a black-soil prairie located in the City of Hobart. It is home to at least ten state-listed species of plants and five threatened species insects. A list of plants recorded by the Northwest Indiana Restoration

Little Calumet River Prairie and Wetlands Restoration

The Little Calumet River Prairie and Wetlands Restoration project is managed by the Gary Parks Department. Restoration efforts have included native species plantings and establishment of wetland hydrology. This project is located on Indiana University Northwest's campus.

Ivanhoe Dune and Swale

The Ivanhoe Dune and Swale is located in Lake County and has been cleared of invasive species. The Nature Conservancy is working to reestablish Karner blue butterflies at this location.

NOTES



Kenneth Rose
Professor, Louisiana State University

**Large-Scale Ecosystem Restoration:
Why are So Many People Unhappy**

**Loeb Playhouse, Stewart Center
Monday June 3, 10:40am**

Two common features shared among many of the large-scale aquatic ecosystem restoration programs in the United States are a large amount of money being spent and many unhappy stakeholders. Many programs have evolved into contentious legal cases. My presentation is based on a briefing given by a team of scientists to the personnel in the Executive Office of the President about why large-scale restoration seems to create contentious situations and some steps that would address this by making restoration more effective and efficient. I will present the basic information the team used in their briefing and expand on several of the major issues. Examples will be drawn from ongoing programs including the Florida Everglades, California Delta, Klamath River, Chesapeake Bay, and coastal Louisiana. Large-scale ecosystem restoration is critical in order to preserve vital ecosystems and to ensure sustainable ecosystem services, but the science and management needs to be improved before opportunities are lost, especially in our present situation of tight monetary budgets.

Kenneth Rose is the E.L. Abraham Distinguished Professor in Louisiana Environmental Sciences in the Department of Oceanography and Coastal Sciences at Louisiana State University located in Baton Rouge. Prior to joining LSU, Kenneth was a Research Scientist at Oak Ridge National Laboratory and a consultant with Martin Marietta Corporation. He received his BS in Biology and Mathematics from University of New York at Albany and his MS and PhD in Fisheries from the University of Washington. Kenneth is a Fellow of the AAAS, has published widely on fish and fisheries related issues, serves as an editor for a variety of journals, and has served on multiple advisory and review panels. Most recently, Kenneth was a member of the National Research Council Committee on Sustainable Water and Environmental Management in the California Bay-Delta, a member of the Klamath River Expert Panel on the Scientific Assessment of Two Dam Removal Alternatives, and a member of the team that prepared the Independent External Peer Review Report for the Mississippi River – Gulf Outlet Ecosystem Restoration Plan Feasibility Study. Kenneth's research is almost entirely devoted to mathematical and simulation modeling and has been referred to as "desktop oceanographer" by some of his more field-oriented colleagues.



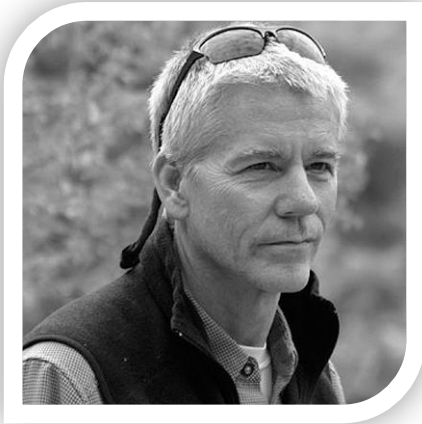
Yvonne Vadeboncoeur
Associate Professor, Wright State University

**Paradigms of Scale and the Function
of Littoral Zones in Large Lakes**

**Loeb Playhouse, Stewart Center
Tuesday June 4, 10:40am**

Littoral zones support the majority of great-lake biodiversity and are often heavily modified by human activity. The implication of concentration of biotic complexity in littoral zones to lake function is poorly resolved due to an understandable research focus on the physically dominant open water habitats. Riparian land modification, water-level changes, invasive species, and agricultural runoff impact the littoral zone earlier and more severely than the open water zones. Our ability to predict the lake-wide consequences of near-shore degradation is limited because the dependency of littoral-pelagic coupling on lake size is rarely incorporated into limnological vocabulary or conceptual models of lake function. Maintaining and restoring the myriad of ecosystem services provided by large lakes in the face of multiple stressors on near-shore habitats will require a more cohesive integration of littoral and off-shore research.

Yvonne Vadeboncoeur is an Associate Professor of Biological Science at Wright State University in Dayton, Ohio, USA. Her research focuses on functional consequences of linkages between habitats within and among ecosystems and on the role of consumers in ecosystem dynamics. She has conducted research in the USA, Canada, Greenland, Denmark and Tanzania and strives to contribute to integrative models of ecosystems and food webs that bridge traditional disciplinary boundaries.



Keith Bowers
Landscape Architect/Restoration Ecologist
President and Founder, Biohabitats Inc.

**From Theory to Practice: Restoring the
Future of the Great Lakes**

Loeb Playhouse, Stewart Center
Wednesday June 5, 10:40am

The science of restoration ecology has emerged as one of the primary forces in efforts to reduce the loss of biodiversity and ecosystem services throughout the world. Similarly, the practice of ecological restoration is providing the means for reversing environmental degradation, reestablishing critical habitat and mitigating the effects of climate change. Discover why the health of the Great Lakes depends on both the science of restoration ecology and the practice of ecological restoration to ensure a robust and resilient future.

For nearly three decades, Keith Bowers has been at the forefront of applied ecology, land conservation and sustainable design. As the founder and president of Biohabitats, Keith has built a multidisciplinary organization focused on regenerative design – the blurring of boundaries between conservation planning, ecological restoration and sustainable design. Using living-systems as the basis for all of its work, Biohabitats applies a whole-systems approach to all of its projects. Keith has applied his expertise to more than 600 projects throughout North America. His work has spanned the scale from site-specific ecosystem restoration projects involving wetland, river, woodland and coastal habitat restoration to regional watershed management and conservation planning, to the development of comprehensive sustainability programs for communities and campuses throughout the country.

Keith is also president and founder of Biohabitats' sister company, Ecological Restoration and Management, Inc. ER&M provides professional installation and management services for restoration projects throughout North America. Keith currently serves as the President of the Board of Directors for the Wildlands Network, a national organization focused on restoring, protecting and connecting North America's best wild places and is the Theme Lead for Ecological Restoration under IUCN's Commission on Ecosystem Management. Keith served on the Board of Directors for the Society for Ecological Restoration, twice as its Chair. He is a Fellow of the American Society of Landscape Architects and is a Professional Wetland Scientist. He holds a B.S. in Landscape Architecture from West Virginia University.



Dave Schwab
Research Scientist, University of Michigan
Water Center

Restoration, Resiliency, and Lake Hydrodynamics

Loeb Playhouse, Stewart Center
Thursday June 6, 10:40am

This talk will explore the potential utility of hydrodynamic modeling in Great Lakes restoration projects. While it might not seem to be a particularly direct connection, there are several examples of hydrodynamics being used to improve active restoration projects. Dave will also discuss some additional applications that could result in more effective use of modeling in planning and assessing restoration efforts and how these might lead to more resilient coastal communities.

Dave Schwab is a world-renowned expert on hydrodynamic modeling of the Great Lakes and other coastal regions. Before joining the Water Center in 2013, Dave was a research scientist and division chief at NOAA's Great Lakes Environmental Research Laboratory for 37 years. His work covered a wide range of topics in geophysical fluid dynamics including theoretical, numerical, and observational investigations of circulation, thermal structure, seiches, storm surges, wind waves, and air-sea interaction. Dave was instrumental in designing, developing, and implementing a comprehensive coastal forecasting system for the Great Lakes which is currently in use by NOAA for operational marine forecasting, oil spill response, and search and rescue support for the US Coast Guard. The Great Lakes Coastal Forecasting System was the first of its kind in the country and has served as a model for several other systems around the world. Dave's current interests are in applications of hydrodynamic modeling to water quality problems, including transport of bacteria from tributary sources to swimming beaches and predictive tracking of algal blooms.

Oral Presentation Guidelines

Unless you have spoken directly with your session chair about a different setup, all presentation slots will be 20 minutes in duration. Your presentation should last no longer than 15 minutes, leaving the remaining time for questions and the transition to the next speaker. If you speak for more than 18 minutes, you will be asked to end your presentation to allow for transition to the next presentation.

Talks should be loaded directly onto the desktop computer in the room you are presenting PRIOR TO the start of your session. Presenters may not use their own laptop. Rooms will be open for uploading talks from

- 4 – 9 p.m. on Sunday,
- 7 a.m. – 7 p.m. Monday-Wednesday, and
- 7 a.m. – 5 p.m. on Thursday.

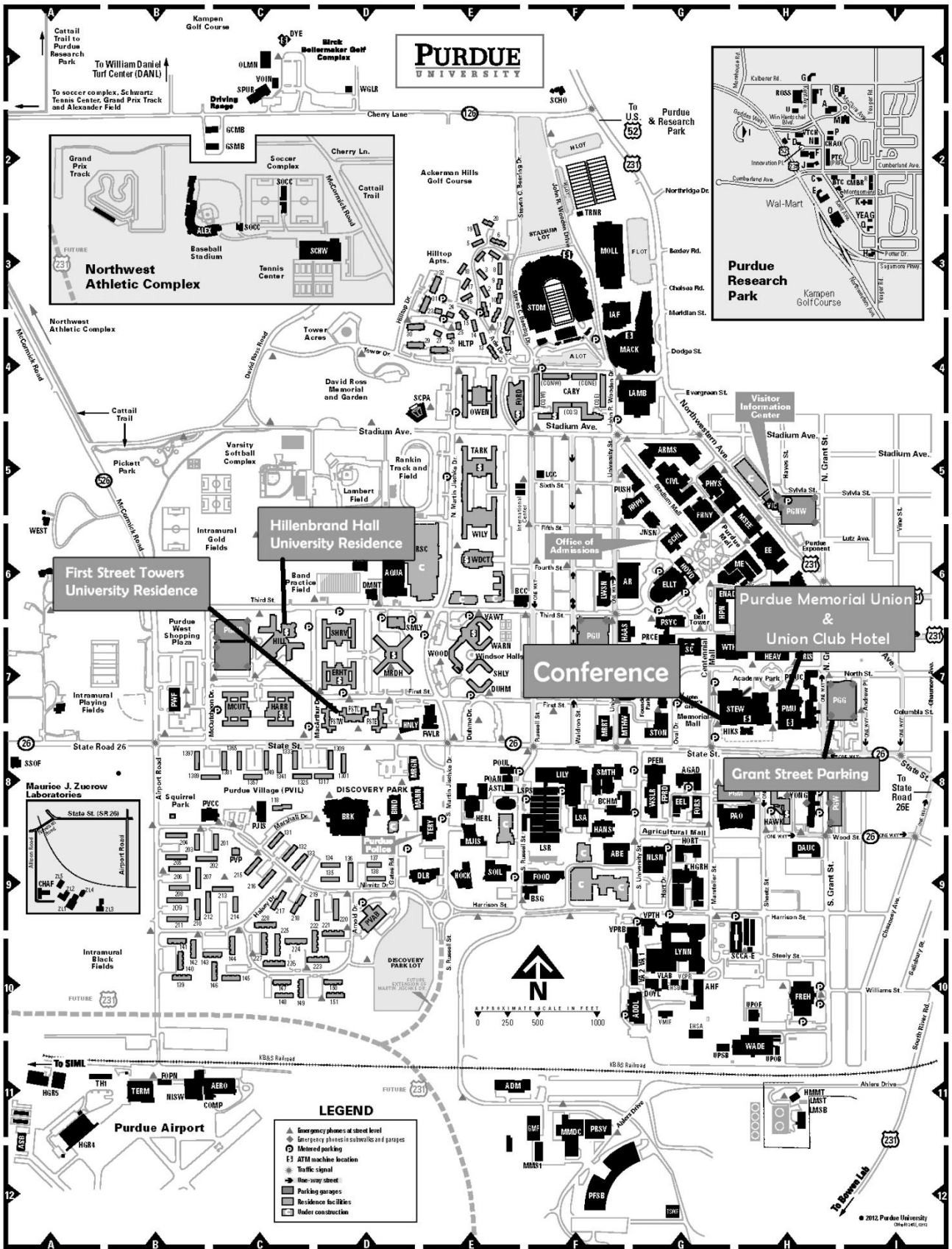
Talks may be uploaded before daily activities begin (roughly 8 am), after daily activities end (roughly 5 pm), or during lunch and scheduled breaks. Talks will not be uploaded at other times. To ensure the efficient running of the conference, EVERY EFFORT SHOULD BE MADE TO UPLOAD YOUR TALK AT LEAST HALF A DAY BEFORE YOUR PRESENTATION. Please communicate with your session chairs if this will be a problem.

Poster Presentation Guidelines

Posters will be displayed on the Third Floor of the Stewart Center. The poster social will be Monday, June 3, from 5:30 to 7:30 p.m. Authors should stand by their poster during this time to answer questions. Presenters can mount their posters between 4 and 9 p.m. on Sunday afternoon or before 5 p.m. on Monday. Posters may be displayed for the duration of the conference but should be removed by Thursday at 5 p.m.

The maximum size limit for posters is 36 inches tall x 48 inches wide (92 x 122 centimeters). Please bring your own fasteners (push pins) to fix your poster on the board. A poster printed as a single, continuous sheet is preferable to one consisting of multiple individual pieces of paper. The conference will NOT provide printers on site.

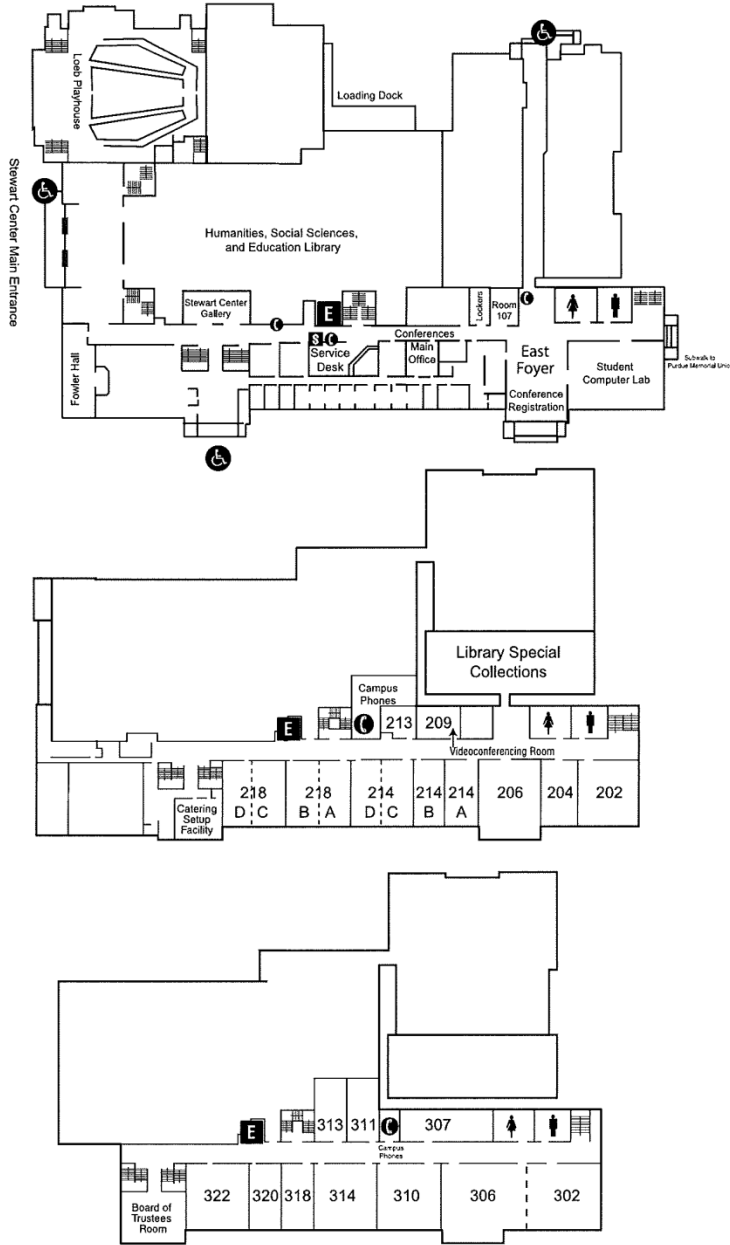
Presentations and posters are the property of the presenters. Audio recordings, copying, videotaping, or photographing of a presentation or poster without the express permission of the presenter is prohibited.



Session Rooms
202, 206, 214A, 214B, 214CD, 218AB, 218C, 314, 322

Poster Session Rooms
302/306, 310, 311, 313, 318

Mid-morning and Afternoon Refreshments
302/306



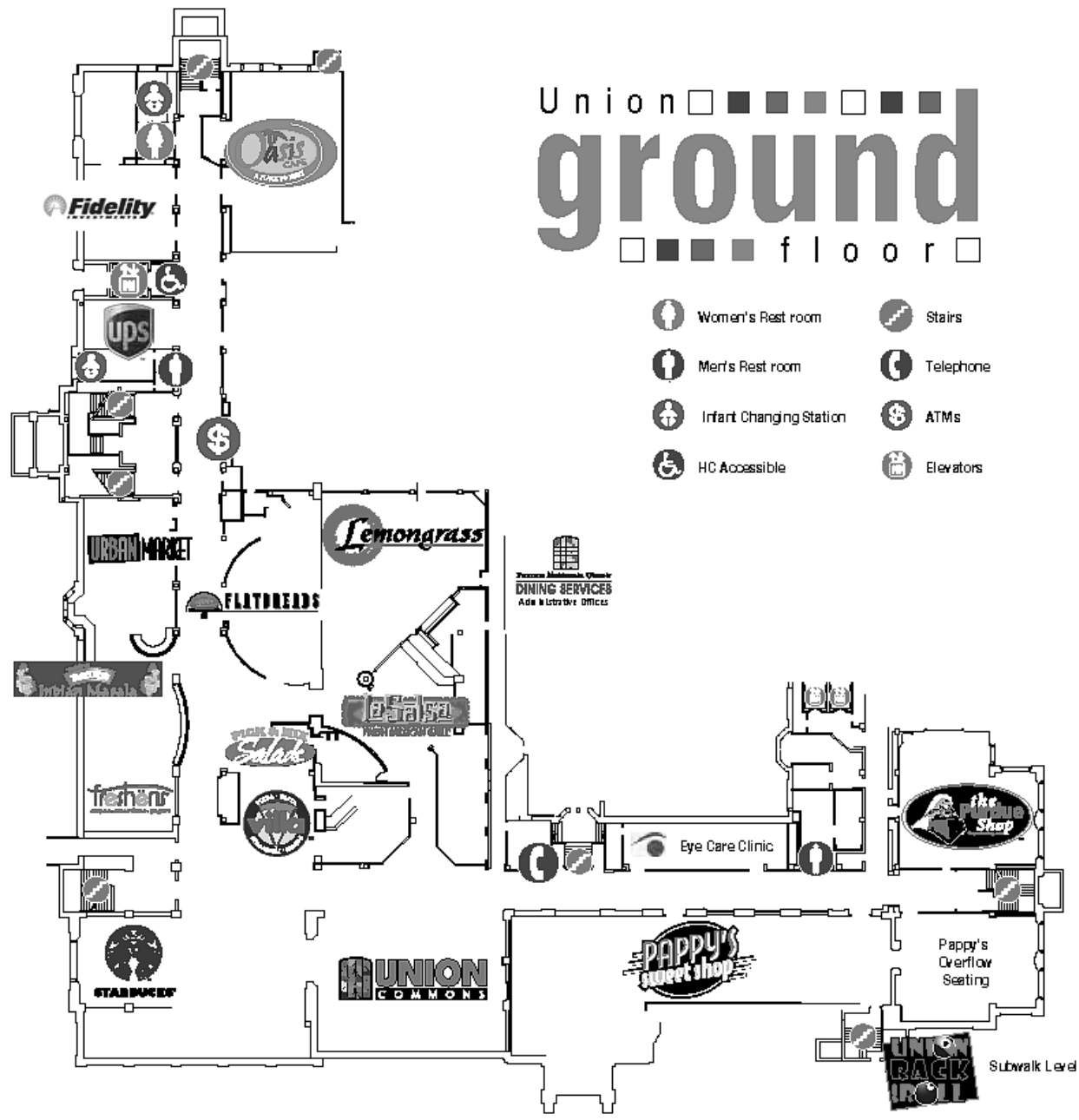
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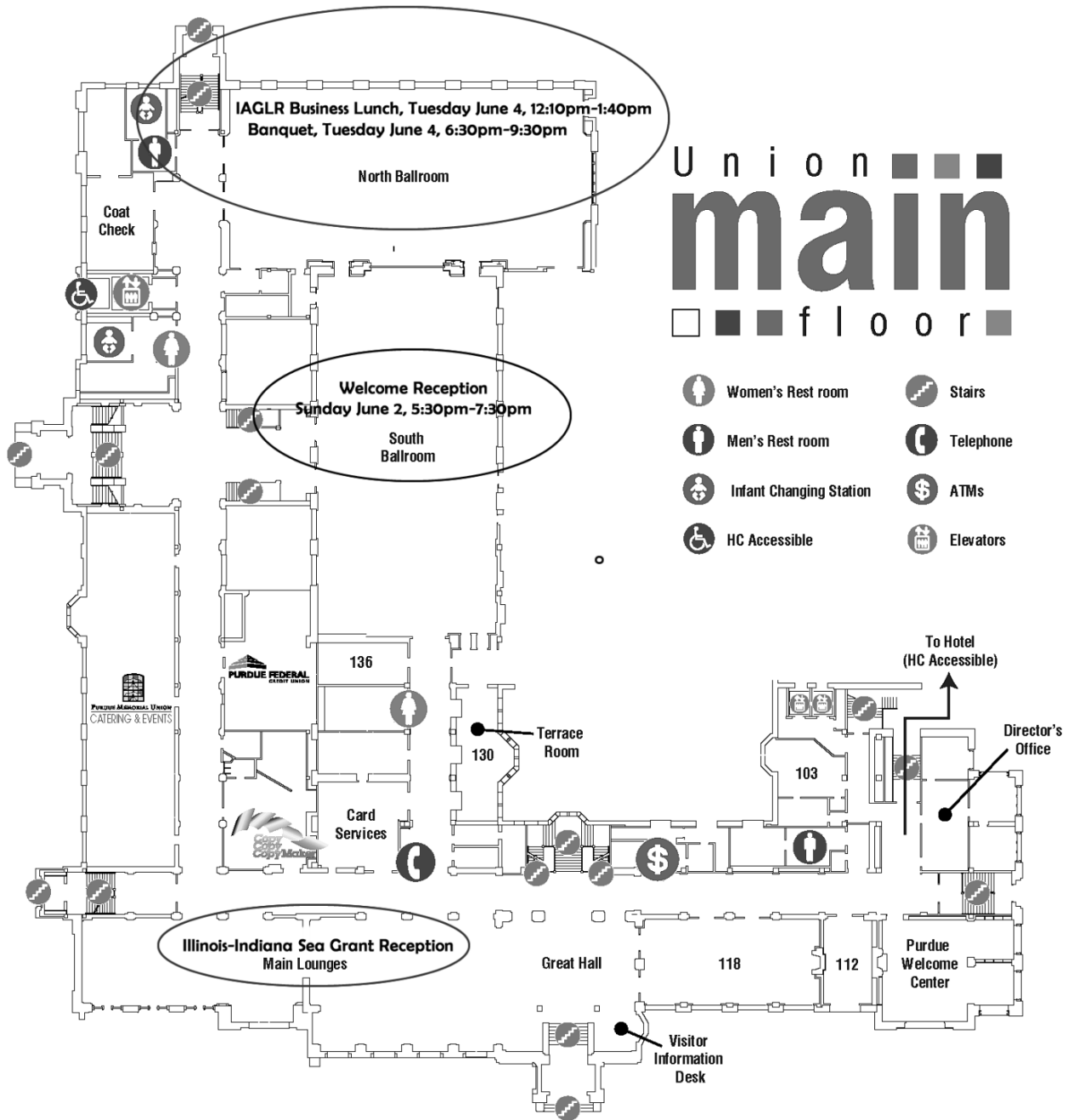
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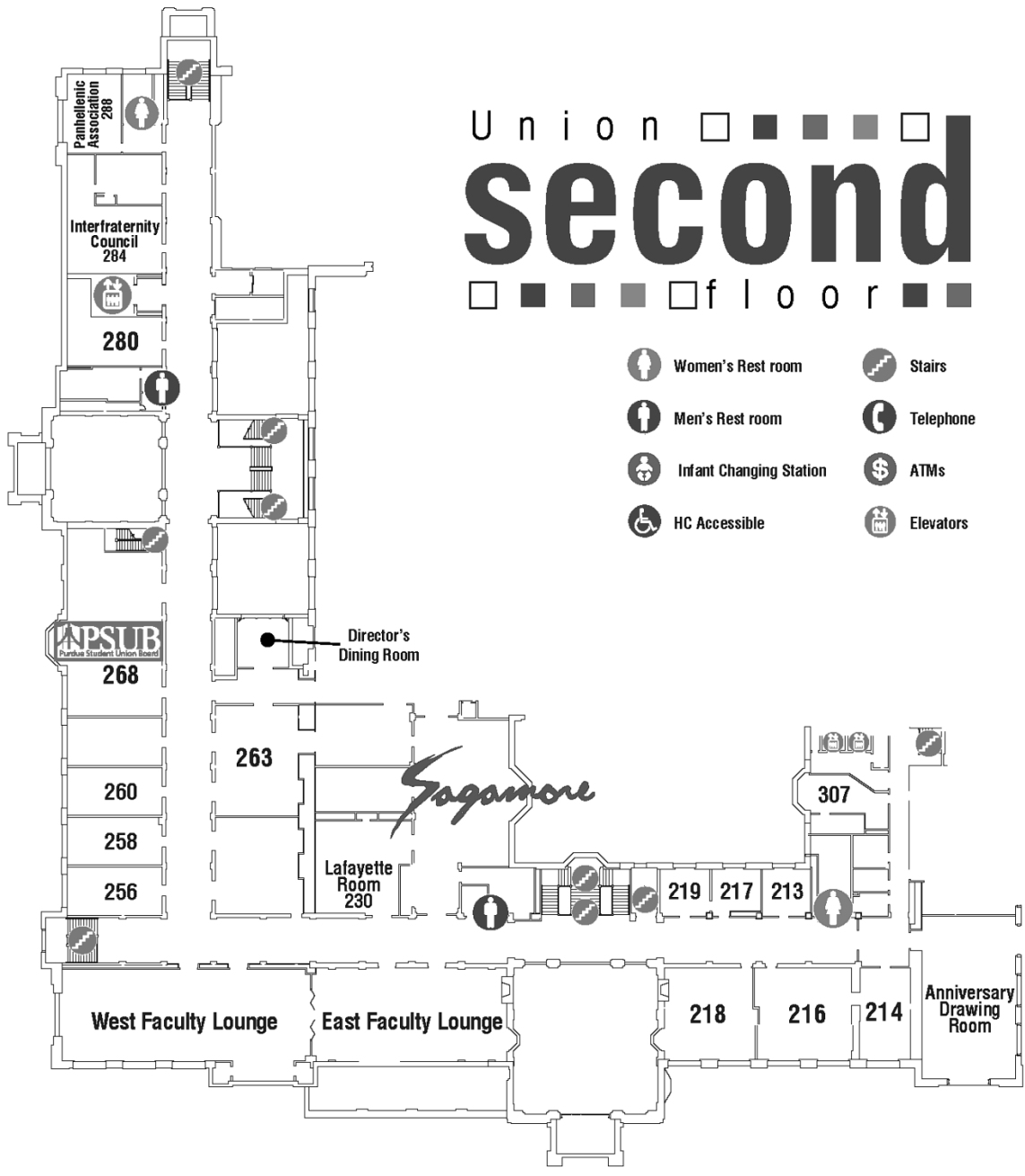
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Eye Care Clinic

Subwalk Level



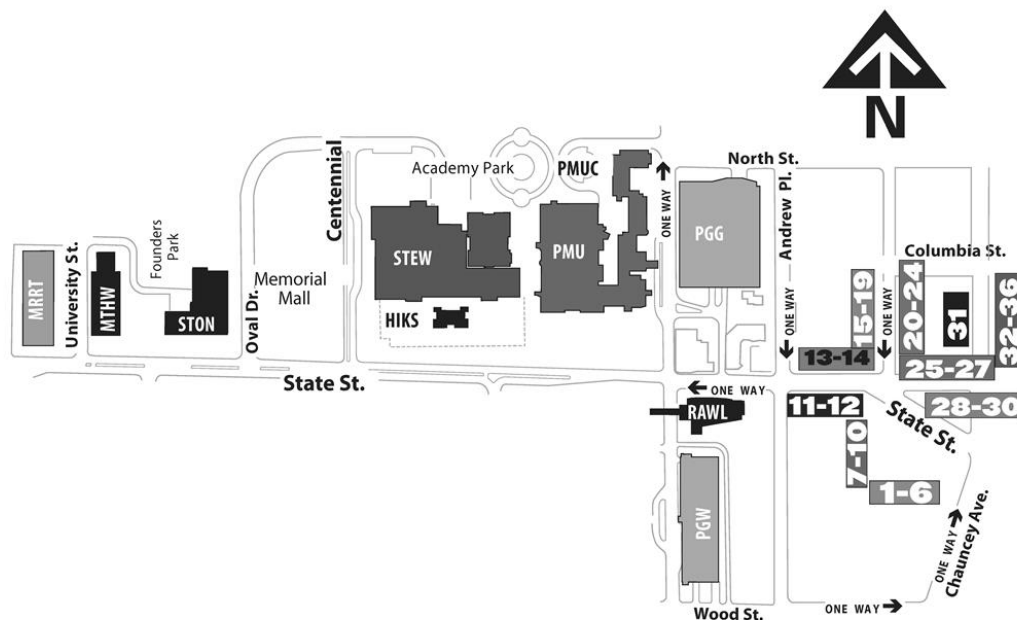
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- Flatbreads
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- Lemongrass
- Oasis Café
- Pappy's Sweet Shop
- Starbucks
- Urban Market
- Villa Fresh Italian Kitchen

SECOND FLOOR

- Sagamore Restaurant

STEWART CENTER (STEW)

MAIN FLOOR

- Newsstand

MARRIOTT HALL (MRRT)

MAIN FLOOR

- Boiler Bistro
- Lavazza

NEARBY

- | | |
|----------------------------|----------------------------|
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| 2. Taco Bell | 20. Captain Gyro |
| 3. AhZ Japanese Fusion | 21. Egyptian Café |
| 4. Lenny's Sub Shop | 22. Panda Express |
| 5. Basil Thai & Bubble Tea | 23. Khana Khazana |
| 6. Fu Lam | 24. Greynhouse Coffee Shop |
| 7. Arbys | 25. Vienna Espresso Bar |
| 8. Five Guys Burgers | 26. Inferno Pizza |
| 9. Hot Box Pizza | 27. Olive House |
| 10. Jake's Roadhouse | 28. Chipotle |
| 11. Von's Dough Shop | 29. Jimmy Johns |
| 12. Harry's | 30. Domino's Pizza |
| 13. Brothers | 31. Maru Sushi |
| 14. Orange Leaf | 32. Noodles & Company |
| 15. Subway | 33. Red Mango |
| 16. Blue Nile | 34. Fiesta Mexican Grill |
| 17. Potbelly Sandwiches | 35. Green Sprout |
| 18. Qdoba Mexican | 36. School House of Chili |

PURDUE
CONFERENCES

UPDATED: 5-22-2012

**Program overview for
Monday June 3 through Thursday June 6**

Monday, June 3

- 8:00 a.m. - 10:40 a.m. **Life History Traits and Reproductive Ecology of Great Lakes Fishes**
Room 206
- 8:00 a.m. - 10:40 a.m. **Ecogenomic Monitoring - from Microbes to Megafauna**
Room 214A
- 8:00 a.m. - 10:40 a.m. **Current Research in Great Lakes National Parks**
Room 314
- 8:20 a.m. - 10:40 a.m. **Asian Carp Biology, Ecology, and Management**
Room 202
- 8:20 a.m. - 10:40 a.m. **Restoration and Resiliency in Great Lakes Areas of Concern**
Room 214CD
- 8:20 a.m. - 10:40 a.m. **Watershed Modeling to Evaluate Land Use Impacts in Great Lakes Basins**
Room 218AB
- 8:20 a.m. - 10:40 a.m. **The Great Lakes Futures Project Showcase: Using Scenario Analysis to Develop a Sustainable Socio-ecologic Vision for the Great Lakes-St. Lawrence River Basin**
Room 322
- 8:20 a.m. - 10:40 a.m. **State and Provincial Responses to Compact/Agreement Water Conservation Mandate - Who, What, How, and Why?**
Room 214B
- 8:40 a.m. - 10:40 a.m. **Science in Action: the Role of Research and Adaptive Management**
Room 218C
- 1:40 p.m. - 4:40 p.m. **Asian Carp Biology, Ecology, and Management**
Room 202
- 1:40 p.m. - 3:20 p.m. **Life History Traits and Reproductive Ecology of Great Lakes Fishes**
Room 206
- 1:40 p.m. - 5:20 p.m. **Restoration and Resiliency in Great Lakes Areas of Concern**
Room 214CD
- 1:40 p.m. - 5:20 p.m. **Physical Processes as Drivers of Population, Community, and Ecosystem Structure, Function, and Dynamics in Large Lake Ecosystems**
Room 218AB
- 1:40 p.m. - 3:20 p.m. **The Great Lakes Futures Project Showcase: Using Scenario Analysis to Develop a Sustainable Socio-ecologic Vision for the Great Lakes-St. Lawrence River Basin**
Room 322
- 1:40 p.m. - 3:20 p.m. **Ecogenomic Monitoring - from Microbes to Megafauna**
Room 214A
- 1:40 p.m. - 5:40 p.m. **Using Data and Models to Link Nutrient Loads to Eutrophication Impacts**
Room 214B
- 1:40 p.m. - 5:20 p.m. **Science in Action: the Role of Research and Adaptive Management**
Room 218C
- 1:40 p.m. - 5:00 p.m. **Great Lakes Data Management**
Room 314
- 3:40 p.m. - 5:20 p.m. **Tracking and Understanding Changes in Lake Michigan's Emerging Food Web**
Room 206
- 3:40 p.m. - 5:00 p.m. **Effective Great Lakes Outreach: A Session Discussing Methods to Improve Local Communication of Risks Related to Coastal Storm Impacts**
Room 322
- 3:40 p.m. - 5:20 p.m. **Transitioning from Student to Professional: Easing the Pain**
Room 214A

Tuesday, June 4

- 7:40 a.m. - 10:40 a.m. **Bayesian Inference in Great Lakes Research**
Room 214A
- 8:00 a.m. - 9:20 a.m. **Linking Chemical Management Actions to Environmental Improvements and Benefits**
Room 214CD
- 8:00 a.m. - 10:40 a.m. **Using Environmental Gradients to Link Patterns and Processes in Complex Ecosystems**
Room 322
- 8:00 a.m. - 10:40 a.m. **Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes**
Room 218C
- 8:20 a.m. - 10:40 a.m. **Establishing a Great Lakes Basin Aquatic Invasive Species Surveillance Plan**
Room 202
- 8:20 a.m. - 10:40 a.m. **Tracking and Understanding Changes in Lake Michigan's Emerging Food Web**
Room 206
- 8:20 a.m. - 10:40 a.m. **Measuring and Modeling Ice and its Impact on Hydrodynamics of Lakes**
Room 218AB
- 8:20 a.m. - 10:40 a.m. **Advances in Monitoring, Analytical Methods, Data Management and Forecasting Beach Nearshore Water Quality**
Room 214B
- 8:20 a.m. - 10:40 a.m. **Education and Outreach: Increasing Great Lakes Literacy and Place-based Stewardship**
Room 314
- 9:40 a.m. - 10:40 a.m. **The Effect of Land Use on Nutrient Dynamics of the Great Lakes: Patterns, Processes, and Solutions**
Room 214CD
- 1:40 p.m. - 3:20 p.m. **Establishing a Great Lakes Basin Aquatic Invasive Species Surveillance Plan**
Room 202
- 1:40 p.m. - 5:20 p.m. **Tracking and Understanding Changes in Lake Michigan's Emerging Food Web**
Room 206
- 1:40 p.m. - 5:20 p.m. **The Effect of Land Use on Nutrient Dynamics of the Great Lakes: Patterns, Processes, and Solutions**
Room 214CD
- 1:40 p.m. - 5:40 p.m. **Coupled Physical and Biogeochemical Processes in Large Lakes**
Room 218AB
- 1:40 p.m. - 4:40 p.m. **The Potential Impacts of Climate Change on the Great Lakes**
Room 322
- 1:40 p.m. - 3:20 p.m. **Advances in Monitoring, Analytical Methods, Data Management and Forecasting Beach Nearshore Water Quality**
Room 214B
- 1:40 p.m. - 5:20 p.m. **Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes**
Room 218C
- 1:40 p.m. - 5:00 p.m. **Education and Outreach: Increasing Great Lakes Literacy and Place-based Stewardship**
Room 314
- 3:40 p.m. - 5:40 p.m. **Tools for Predicting and Managing Current and Future Invasions of Potentially Harmful Species in the Great Lakes**
Room 202
- 3:40 p.m. - 5:00 p.m. **Safer Great Lakes Beaches: Improving Water Quality and Public Health Protection**
Room 214B

Wednesday, June 5

- 8:00 a.m. - 10:40 a.m. **Developing and Implementing Risk Assessment for Invasive Species**
Room 202
- 8:00 a.m. - 10:40 a.m. **The Impacts of Environmental Stressors on the Saginaw Bay Ecosystem**
Room 206
- 8:00 a.m. - 10:40 a.m. **Restoration of Great Lakes Fish Communities: Goals, Challenges, and Benefits**
Room 214CD
- 8:00 a.m. - 10:40 a.m. **Changing Climate, Changing Ecology in the Great Lakes Region**
Room 322
- 8:00 a.m. - 10:40 a.m. **Habitat Restoration Challenges**
Room 214A
- 8:00 a.m. - 10:40 a.m. **General Contributions**
Room 218C
- 8:20 a.m. - 10:40 a.m. **Bio-effects Surveillance Toward an Early Warning System for Toxics in the Great Lakes**
Room 214B
- 8:20 a.m. - 10:20 a.m. **Bird Botulism: What We Do and Don't Know**
Room 314
- 8:40 a.m. - 10:40 a.m. **Air, Land, Water, and Ice: Interactions in the Climate System of Lake Regions**
Room 218AB
- 1:40 p.m. - 5:40 p.m. **Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact**
Room 202
- 1:40 p.m. - 5:00 p.m. **The Impacts of Environmental Stressors on the Saginaw Bay Ecosystem**
Room 206
- 1:40 p.m. - 5:00 p.m. **Detection, Impacts and Management of Contaminants in the Great Lakes Part 1: Legacy Contaminants**
Room 214CD
- 1:40 p.m. - 3:00 p.m. **Air, Land, Water, and Ice: Interactions in the Climate System of Lake Regions**
Room 218AB
- 1:40 p.m. - 3:20 p.m. **Changing Climate, Changing Ecology in the Great Lakes Region**
Room 322
- 1:40 p.m. - 5:40 p.m. **New Frontiers of Great Lakes Policy: Where Science and Stakeholders Meet**
Room 214A
- 1:40 p.m. - 5:20 p.m. **African Great Lakes in Transition**
Room 214B
- 1:40 p.m. - 5:00 p.m. **Ecosystem Modeling to Support Decision-Making**
Room 218C
- 1:40 p.m. - 4:40 p.m. **Large-lake Microbial Ecology**
Room 314
- 3:40 p.m. - 5:20 p.m. **Physical Processes in Large Lakes: A Celebration of the Career of David Schwab**
Room 218AB
- 3:40 p.m. - 5:20 p.m. **Ecosystem Tipping Points: Science and Decision Making**
Room 322

Thursday, June 6

- 8:00 a.m. - 10:40 a.m. **Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact**
Room 202
- 8:00 a.m. - 10:40 a.m. **Salmonine Sustainability in the Great Lakes**
Room 206
- 8:00 a.m. - 10:40 a.m. **Detection, Impacts and Management of Contaminants in the Great Lakes Part 2: Emerging Contaminants**
Room 214CD
- 8:00 a.m. - 10:40 a.m. **Physical Processes in Large Lakes: A Celebration of the Career of David Schwab**
Room 218AB
- 8:00 a.m. - 10:40 a.m. **Understanding, Forecasting, Monitoring and Managing Harmful Algal Blooms in the Great Lakes**
Room 214A
- 8:00 a.m. - 10:40 a.m. **Nearshore/Coastal Conditions and Watershed Connections**
Room 218C
- 8:00 a.m. - 10:40 a.m. **Trophic Tracers in Aquatic Food Webs**
Room 314
- 8:20 a.m. - 10:40 a.m. **The Re-Eutrophication of Lake Erie: Improving Understanding and Developing a Management Framework**
Room 322
- 8:20 a.m. - 10:40 a.m. **Ecosystem Tipping Points: Science and Decision Making**
Room 214B
- 1:40 p.m. - 2:20 p.m. **Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact**
Room 202
- 1:40 p.m. - 4:00 p.m. **Artificial Reefs and Reef Restoration in the Great Lakes: Lessons and Legacy**
Room 206
- 1:40 p.m. - 4:40 p.m. **Detection, Impacts and Management of Contaminants in the Great Lakes Part 2: Emerging Contaminants**
Room 214CD
- 1:40 p.m. - 5:00 p.m. **Physical Processes in Large Lakes: A Celebration of the Career of David Schwab**
Room 218AB
- 1:40 p.m. - 5:00 p.m. **The Re-Eutrophication of Lake Erie: Improving Understanding and Developing a Management Framework**
Room 322
- 1:40 p.m. - 5:20 p.m. **Expert Engagement in Great Lakes Research**
Room 214A
- 1:40 p.m. - 2:40 p.m. **Ecosystem Tipping Points: Science and Decision Making**
Room 214B
- 1:40 p.m. - 4:40 p.m. **Nearshore/Coastal Conditions and Watershed Connections**
Room 218C
- 1:40 p.m. - 5:20 p.m. **Appreciating the Paradox: Adding Phytoplankton Back into Aquatic Foodwebs**
Room 314

Sessions by Day

Monday, June 3

	202	206	214CD	218AB	322
	<p>2. Asian Carp Biology, Ecology, and Management <i>Co-Chairs: Reuben Goforth, Alison Coulter, Andrew Deines, and Matthew Barnes</i></p>	<p>24. Life History Traits and Reproductive Ecology of Great Lakes Fishes <i>Co-Chairs: Zachary Feiner, Erin Dunlop, and Tomas Hook</i></p>	<p>12. Restoration and Resiliency in Great Lakes Areas of Concern <i>Co-Chairs: Patrick Lawrence, Marc Tuchman, and Matt Doss</i></p>	<p>40. Watershed Modeling to Evaluate Land Use Impacts in Great Lakes Basins <i>Chair: Indrajeet Chaubey</i></p>	<p>21. The Great Lakes Futures Project Showcase: Using Scenario Analysis to Develop a Sustainable Socio-ecologic Vision for the Great Lakes-St. Lawrence River Basin <i>Co-Chairs: Irena Creed, Gail Krantzberg, Donald Scavia, Kathryn Friedman, and Katrina Laurent</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
8:00		<p><u>S.I. Karsiotis</u> Genetic Structure of Smallmouth Bass across North America: Patterns from Two Genomes</p>			
8:20	<p><u>D.M. Mason</u> Forecasting Asian Carp Impacts On Lake Michigan's Food Web And Fisheries - Using The Atlantis Ecosystem Model</p>	<p><u>M.J. Belnap</u> Stock Characteristics of Lake Whitefish in Lake Michigan</p>	<p><u>V.K.S. Breidenbach</u> A Coordinated Approach to Restoration: the St. Louis River AOC Implementation Framework in Action</p>	<p><u>D.M. Robertson</u> Recent Progress in SPARROW Watershed Modeling in the Great Lakes Basin</p>	<p><u>K.L. Laurent</u> Great Lakes Futures Project - How tapping into the imagination of multiple generations can lead to innovative solutions for the socio-ecological sustainability of this internationally important Basin.</p>
8:40	<p><u>L.N. Ivan</u> Assessing the risk of Asian carps establishment in the Great Lakes across productivity gradients</p>	<p><u>L.L. Sicoly</u> Behavioural and Genetic Diversity Among Ecotypes of Lake Superior Brook Trout (<i>Salvelinus fontinalis</i>)</p>	<p><u>C.L. Groulx</u> The Port Hope Area Initiative Biophysical Environmental Assessment Follow-up Program for the Protection of Lake Ontario</p>	<p><u>L.F. Leon</u> Watershed Modeled Loads: Input for Lake Models, Application in a Lake Ontario Pilot Study Area</p>	<p><u>S. Jetoo</u> The Great Lakes Futures Project: Governance and Geopolitics as Drivers of Change in the Great Lakes-St. Lawrence Basin</p>
9:00	<p><u>D.C. Chapman</u> Non-planktonic alternative food sources for bighead and silver carps in the Great Lakes.</p>	<p><u>L.K. Mathews</u> Truss type morphometric comparison of lake trout from Elk Lake, lean forms from Lake Superior, and stocked lean forms from Lake Michigan</p>	<p><u>M. Croft-White</u> Now you see it, now you don't; assessment of Degradation of Aesthetics as a Beneficial Use Impairment in the Toronto and Region Area of Concern</p>	<p><u>Y. Her</u> Assessing Effectiveness of Targeted Agricultural BMPs on Sediment and Nutrient Loading from Upper Maumee River Watershed using SWAT</p>	<p><u>M. Cooper</u> Economy of the Great Lakes Region</p>
9:20	BREAK				

214A	214B	218C	314	
<p>29. Ecogenomic Monitoring - from Microbes to Megafauna <i>Co-Chairs: Cameron Turner and Michael Pfrender</i></p>	<p>20. State and Provincial Responses to Compact/Agreement Water Conservation Mandate - Who, What, How, and Why? <i>Chair: Mike Molnar</i></p>	<p>31. Science in Action: the Role of Research and Adaptive Management <i>Co-Chairs: James Diana and Donald Uzarski</i></p>	<p>44. Current Research in Great Lakes National Parks <i>Chair: Joy Marburger</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>C.R. Turner</u> Particle size distribution and optimal capture of fish environmental DNA</p>			<p><u>W.T. Route</u> Patterns and Trends in Polybrominated Diphenyl Ethers in Nestling Bald Eagles from Three National Parks in the Upper Midwest</p>	8:00
<p><u>S.C. Brandl</u> Quantifying predation on larval native fish using genetic barcodes found in gut contents.</p>	<p><u>M.K. Riggs</u> Status of Water Use Registration, Permitting and Efficiency Efforts as required by Indiana's Implementation of the Great Lakes Compact</p>		<p><u>M.B. Sandheinrich</u> Methylmercury in Fish in National Parks of the Northwestern Laurentian Great Lakes Region: Potential Risks to Humans and Wildlife</p>	8:20
<p><u>C.Y. Lumibao</u> Genetic Tool for Understanding Long-term Forest Changes: Analysis of Ancient DNA from Lake Sediments</p>	<p><u>M.S. Piskur</u> Assessing Cumulative Water Use Impacts for the Great Lakes-St. Lawrence River Basin</p>	<p><u>T.G. Nettesheim</u> An Adaptive Science-Based Framework for Great Lakes Restoration</p>	<p><u>R. Grundel</u> Native Bee Ecology in Great Lakes National Parks</p>	8:40
<p><u>J.R. Shaw</u> Population Genomics Reveals Adaptive Variation and a Potential Path to Environmental Forecasting</p>	<p><u>H.W. Reeves</u> Development and Implementation of methods to estimate ungaged streamflows and track water use in the Great Lake Basin</p>	<p><u>D.F. Clapp</u> Research and Adaptive Management of Great Lakes Yellow Perch Populations</p>	<p><u>R.E. DeWalt</u> Pre-European Settlement Range Predictions for Stoneflies (Plecoptera) of the Midwest</p>	9:00
BREAK				9:20

Monday, June 3

	202	206	214CD	218AB	322
	<p>2. Asian Carp Biology, Ecology, and Management <i>Co-Chairs: Reuben Goforth, Alison Coulter, Andrew Deines, and Matthew Barnes</i></p>	<p>24. Life History Traits and Reproductive Ecology of Great Lakes Fishes <i>Co-Chairs: Zachary Feiner, Erin Dunlop, and Tomas Hook</i></p>	<p>12. Restoration and Resiliency in Great Lakes Areas of Concern <i>Co-Chairs: Patrick Lawrence, Marc Tuchman, and Matt Doss</i></p>	<p>40. Watershed Modeling to Evaluate Land Use Impacts in Great Lakes Basins <i>Chair: Indrajeet Chaubey</i></p>	<p>21. The Great Lakes Futures Project Showcase: Using Scenario Analysis to Develop a Sustainable Socio-ecologic Vision for the Great Lakes-St. Lawrence River Basin <i>Co-Chairs: Irena Creed, Gail Krantzberg, Donald Scavia, Kathryn Friedman, and Katrina Laurent</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
9:40	<p><u>J.H. mo</u> Rotifer abundance and composition in Lake Michigan: a significant data gap in understanding the potential for the establishment of Asian carp populations</p>	<p><u>L.S. Schoen</u> Near Shore-Wetland Fish Movements in the Great Lakes</p>	<p><u>R.M. Hobrla</u> From Covered Wagon to Bullet Train -- Michigan's Area of Concern Program</p>	<p><u>S.Y. Gebremariam</u> Impacts of Crop Management Practices in the Maumee Watershed on Dissolved Phosphorus Inputs to Lake Erie</p>	<p><u>E.R. Cornwell</u> Biological and Chemical Contaminants in the Great Lakes-St. Lawrence River Basin</p>
10:00	<p>Previous Presentation Continued</p>	<p><u>M.J. Unitis</u> Differential Use of Three Wetland Types as a Nursery Habitat for Juvenile Gamefish Species</p>	<p><u>T. Tisue</u> The White Lake, Michigan, Area of Concern</p>	<p><u>Q.Y. Feng</u> Hydrological/Water quality impacts of perennial crop production on marginal land in the St Joseph River watershed</p>	<p><u>A.M. Bartolai</u> An Examination of Climate Change in the Great Lakes - St. Lawrence River Basin and Envisioned Scenarios for Future Adaptation and Mitigation</p>
10:20	<p><u>S.A. Ireland</u> Comparative Taxonomy and Description of Larval Bighead and Silver Carp with Native Great Lakes Fishes</p>	<p><u>E. Dunlop</u> Can fishing cause evolution in Great Lakes fish stocks?.</p>	<p><u>N.R. Urban</u> An Integrated Assessment of the Torch Lake Area of Concern: Phase 1</p>	<p><u>W. Francesconi</u> Using the APEX Model to Assess the Impact of Agricultural Conservation Practices in the Western Lake Erie Basin</p>	<p><u>M. Maghrebi</u> Water Quantity and the Great Lakes St. Lawrence River Basin</p>
10:40	<p>PLENARY SESSION (Loeb Playhouse)</p>				

214A		214B		218C		314		
29. Ecogenomic Monitoring - from Microbes to Megafauna <i>Co-Chairs: Cameron Turner and Michael Pfrender</i>		20. State and Provincial Responses to Compact/Agreement Water Conservation Mandate - Who, What, How, and Why? <i>Chair: Mike Molnar</i>		31. Science in Action: the Role of Research and Adaptive Management <i>Co-Chairs: James Diana and Donald Uzarski</i>		44. Current Research in Great Lakes National Parks <i>Chair: Joy Marburger</i>		
Presented by / Title		Presented by / Title		Presented by / Title		Presented by / Title		Time
<u>E.M. Pilgrim</u> Environmental metagenomics applied to lake bioassessment using sediment and benthos in Lake Huron		<u>C. Anderson</u> Cumulative Impact Assessment of Water Withdrawals in Quebec: Better Protect and Conserve Water Resources of the Great Lakes-St. Lawrence River Basin		<u>L.E. Vaccaro</u> Careful science with a compelling mission: Restoring fish communities in the St. Clair - Detroit River System		<u>N.B. Pavlovic</u> The Distribution of Oriental Bittersweet (<i>Celastrus orbiculatus</i>) in Great Lakes National Parks: The Interplay between Habitat and Disturbance		9:40
<u>H.M. Bik</u> Biodiversity and the (data) beast: computational challenges for ecogenomic monitoring of microbial eukaryotes		<u>J.E. Pingatore</u> Valparaiso's Water Conservation Plan		<u>J.J.H. Ciborowski</u> Bioindicator Sensitivity and Consistency of Classification - Comparing Among Methods and Taxa at Great Lakes Coastal Margins		<u>S.E. Travis</u> Cryptic Cattail Invasions in National Parks of the Great Lakes Region: The Role of Hybridization		10:00
<u>M. Hajibabaei</u> Ecosystem biomonitoring through DNA metasytematics		<u>A.L. O'Malley</u> Positive Psychological Perspectives on Water Conservation Behavior		<u>J.J. Baustian</u> Measuring restoration outcomes beyond ecology: the interactions between science and management		<u>S.M. Emery</u> Patterns of Fungal Symbiont Presence in Ammophila breviligulata Populations of Great Lakes Sand Dunes		10:20
PLENARY SESSION (Loeb Playhouse)								10:40

Monday, June 3

	202	206	214CD	218AB	322
	<p>2. Asian Carp Biology, Ecology, and Management <i>Co-Chairs: Reuben Goforth, Alison Coulter, Andrew Deines, and Matthew Barnes</i></p>	<p>24. Life History Traits and Reproductive Ecology of Great Lakes Fishes <i>Co-Chairs: Zachary Feiner, Erin Dunlop, and Tomas Hook</i></p>	<p>12. Restoration and Resiliency in Great Lakes Areas of Concern <i>Co-Chairs: Patrick Lawrence, Marc Tuchman, and Matt Doss</i></p>	<p>53. Physical Processes as Drivers of Population, Community, and Ecosystem Structure, Function, and Dynamics in Large Lake Ecosystems <i>Co-Chairs: Stuart Ludsin, Kristen DeVanna, and Ralph Smith</i></p>	<p>15. Great Lakes Futures Project Showcase: Scenario Analysis to Develop a Sustainable Socio-ecologic Vision for the Great Lakes-St. Lawrence River Basin <i>Co-Chairs: Irena Creed, Gail Krantzberg, Donald Scavia, Kathryn Friedman, and Katrina Laurent</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
1:40	<p><u>D.J. Hilbrich</u> Illinois-Indiana Sea Grant's Asian Carp Marketing Summit - A conversation with managers, retailers and harvesters</p>	<p><u>C.A. Murphy</u> The Influence of Life History on Sublethal Response to Sea Lamprey Parasitism in Lake Trout: Population Level Implications</p>	<p><u>A.P. Mucha</u> Multiple Approaches to Restoration at the Ashtabula River Area of Concern</p>	<p><u>K.M. DeVanna</u> Understanding Fish Recruitment in Large Lakes: The Importance of Physical Processes</p>	<p><u>D. Scavia</u> Two-axes of analysis that form four potential Great Lakes-St. Lawrence River Basin futures.</p>
2:00	<p><u>A.M. Deines</u> A Bio-economic framework for harvesting invasive species</p>	<p><u>J.J. Pritt</u> Abundance and Ecology across Life Stages: Walleye Reproduction in the Maumee River</p>	<p><u>J.M. Campbell</u> Skin tumor formation in brown bullheads in Lake Erie: Analysis of genetic and microbiome factors</p>	<p><u>W.G. Sprules</u> Effects of Wind on Water Currents at Multiple Depths in the Epilimnion of Lake Opeongo, Ontario</p>	<p><u>K.B. Friedman</u> Scenarios for the Great Lakes-St. Lawrence Basin: How "stories" of the future can inform present action and lead to a desired future.</p>
2:20	<p><u>M.A. Barnes</u> Adapting to biological invasions through harvest: what can we learn from existing "experiments?"</p>	<p><u>R.A. Redman</u> Size Structure of Female Yellow Perch Spawners as an Early Indicator of Year Class Strength</p>	<p><u>J.E. Edstrom</u> Area of Concern Information Management and Tracking Systems</p>	<p><u>E.M. Hayes-Pontius</u> Zooplankton Community Composition in Lake Champlain: Response to Hydrologic Disturbance</p>	<p><u>S.A. Fera</u> Aquatic Invasive Species as a Driver of Change in the Great Lakes-St. Lawrence Basin</p>
2:40	<p><u>J.J. Amberg</u> Development of new tools to control the filter-feeding Asian carps</p>	<p><u>Z.S. Feiner</u> Evidence for plastic and adaptive variation in the maturation schedules of Great Lakes yellow perch across time and space</p>	<p><u>P.L. Lawrence</u> Restoration and Resiliency in Great Lakes Areas of Concern: 25 years (1987-2012) in the Tenmile Creek/Ottawa River, Maumee AOC</p>	<p><u>L.E. Barth</u> Wind-Induced Water Movement Causes Patterns in Zooplankton Spatial Distribution</p>	<p><u>B. Kelly</u> Energy in the Great Lakes St-Lawrence Basin: Past Trends, Current Impacts and Future Scenarios</p>
3:00	<p><u>Q.E. Phelps</u> Incorporating basic and applied approaches to evaluate the effects of silver carp on native fishes</p>	<p><u>J. Gobin</u> Maturation and Fishing Selectivity in Response to Growth Declines of Lake Huron Lake Whitefish: Implications for the Fishery.</p>	<p><u>S. Durley</u> Ottawa River Watershed Scrap Yard Pollution Prevention (P2) Program: Reducing Toxics in Stormwater Runoff</p>	<p><u>P.J. Hurtado</u> Do Hypoxia- and Temperature-Induced Changes in Habitat Use Affect Fish Abundance and Quality?</p>	<p><u>J.D. Methot</u> Demographics, Societal Values, and Land Use: monitoring and envisioning change in the Great-Lakes - St. Lawrence basin</p>
3:20	BREAK				

214A	214B	218C	314	
<p>29. Ecogenomic Monitoring - from Microbes to Megafauna <i>Co-Chairs: Cameron Turner and Michael Pfrender</i></p>	<p>39. Using Data and Models to Link Nutrient Loads to Eutrophication Impacts <i>Co-Chairs: Ed Verhamme, Dan Rucinski, and Kevin Fermanich</i></p>	<p>31. Science in Action: the Role of Research and Adaptive Management <i>Co-Chairs: James Diana and Donald Uzarski</i></p>	<p>15. Great Lakes Data Management <i>Chair: Paris Collingsworth</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>I. Zarraonaindia</u> Linking microbial community metabolism to ecosystem phenotypes in aquatic environments</p>	<p><u>M.E. Zorn</u> Determination of dissolved phosphate and nitrate in Green Bay, Lake Michigan using continuous monitoring, in situ chemical sensors</p>	<p><u>C.M. Riseng</u> Restoring the Muskegon River watershed</p>	<p><u>N.E. Dobiesz</u> The state of the Great Lakes fisheries - Why an integrated, lake-wide database system is critical but challenging</p>	1:40
<p><u>J.J. Parnell</u> Microbial Ecogenomics in the National Ecological Observatory Network</p>	<p><u>K.J. Fermanich</u> Landscape Sources of Phosphorus to Lower Green Bay: Concentrations, Loadings and Management Challenges</p>	<p><u>J.S. Diana</u> Restoration of Muskellunge in Green Bay</p>	<p><u>L.A. Mason</u> Great Lakes Aquatic Habitat Framework: Creating a common spatial grid for sharing physical, geochemical, and biological data across the entire Great Lakes Basin</p>	2:00
<p><u>J.L. Kinzelman</u> The Use of DNA-based Methods as Part of a Multi-parameter Water Quality Assessment Program</p>	<p><u>J.V. Klump</u> The Dynamics of Hypoxia in Green Bay, Lake Michigan</p>	<p><u>M.R. Eggleston</u> Northern pike (<i>Esox lucius</i>) access and recruitment in a hydrologically reconnected Lake Erie coastal wetland</p>	<p><u>L. Wang</u> Great Lakes Information Integration Needs and Approaches for Meeting Objectives of the Water Quality Agreement and Other Management Challenges</p>	2:20
<p><u>S.A. Hashsahm</u> Merging Genomics and Microfluidics to Develop Low Cost Genetic Analysis Systems and Approaches for Environment and Health</p>	<p><u>R.S. Lambert</u> Phosphorus Bioavailability of Point Sources to the Great Lakes insights from Onondaga Lake</p>	<p><u>P. Thompson</u> Response by Fish to Adaptive Reef Construction Restoring Spawning Habitat in the St. Clair - Detroit River System</p>	<p><u>J.M. Lucido</u> Making USGS Great Lakes Scientific Data Discoverable and Accessible Through an Integrated, Standards-Based Data Network</p>	2:40
<p><u>D. Fries</u> Real-time Water Quality Monitoring using Autonomous Portable Water Laboratories</p>	<p><u>M.T. Auer</u> Phosphorus Bioavailability in the Major U.S. Tributaries to the Great Lakes</p>	<p><u>M.A. Lynch</u> Assessment of Wetland Habitat Use by Juvenile Fishes, with a Focus on Rock Bass <i>Ambloplites rupestris</i> Within the St Clair River Delta, MI, USA</p>	<p><u>E.W. Murphy</u> 40 Years of Fish: Consolidating and Reconciling Data from a Longitudinal Study</p>	3:00
BREAK				3:20

Monday, June 3

	202	206	214CD	218AB	322
	<p>2. Asian Carp Biology, Ecology, and Management <i>Co-Chairs: Reuben Goforth, Alison Coulter, Andrew Deines, and Matthew Barnes</i></p>	<p>33. Tracking and Understanding Changes in Lake Michigan's Emerging Food Web <i>Co-Chairs: David Bunnell, Tomas Hook, and Hank Vanderploeg</i></p>	<p>12. Restoration and Resiliency in Great Lakes Areas of Concern <i>Co-Chairs: Patrick Lawrence, Marc Tuchman, and Matt Doss</i></p>	<p>53. Physical Processes as Drivers of Population, Community, and Ecosystem Structure, Function, and Dynamics in Large Lake Ecosystems <i>Co-Chairs: Stuart Ludsin, Kristen DeVanna, and Ralph Smith</i></p>	<p>43. Effective Great Lakes Outreach: A Session Discussing Methods to Improve Local Communication of Risks Related to Coastal Storm Impacts <i>Co-Chairs: Brent Schleck and Shahram Missaghi</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
3:40	<u>K. Klymus</u> DNA shedding rates of Asian carps, for use in understanding field collections of eDNA	<u>C.P. Madenjian</u> Changes in the Lake Michigan food web after dreissenid mussel invasions	<u>A.R. Snyder</u> Habitat Restoration Planning in the Grand Calumet River Area of Concern	<u>C.J. May</u> Does available growth environment predict walleye recruitment in western Lake Erie?	<u>C.A. McCoy</u> Risk Communication: Lessons from Social Science
4:00	<u>C.G. Prichard</u> Comparative Population Genetics of Bighead and Silver Carps: Invasion Fronts Approaching the Great Lakes	<u>R.P. Barbiero</u> A Comparison Of Recent Changes In Nutrients And The Lower Food Web In Lake Huron And Lake Michigan	<u>J. Brunner</u> Contaminated Sediment Remediation and Habitat Restoration: Grand Calumet River and Roxana Marsh	<u>M.E. Fraker</u> Coupled Physical-Biological Modeling to Understand Recruitment Process in Mixed-Stock Fisheries: Lake Erie Walleye	<u>E.A. LaPorte</u> Public Outreach About Dangerous Currents
4:20	<u>A.A. Coulter</u> Patterns in Silver Carp (<i>Hypophthalmichthys molitrix</i>) Movements in a Large River	<u>H.A. Vanderploeg</u> Life on the edge: Remarkable changes in spatial connections of the pelagic food webs of Lakes Michigan and Huron over the diel cycle and across years	<u>J.R. Stahl</u> Beneficial Use Impairment Delisting Potential of the Grand Calumet River AOC: Fish Tissue and Sediment Contaminants	<u>J.R. Marin Jarrin</u> Linking River Discharge and Wind-Driven Currents to the Success of Larval Yellow Perch in Western Lake Erie	<u>E.A. LaPorte</u> Communicating Risks About Coastal Storms and Climate Extremes
4:40		<u>C.M. Mosley</u> The Role of Quagga Mussels in Lake Michigan Phosphorus and Carbon Dynamics	<u>P.D. McMurray</u> Beneficial Use Impairment Delisting Potential of the Grand Calumet River AOC: Benthic Macroinvertebrate Community and Sediment Toxicity	<u>S.A. Ludsin</u> Particle Backtracking as a Tool to Improve Stock Discrimination Capabilities in Mixed Populations: An Example with Lake Erie Yellow Perch	<u>S. Missaghi</u> Measuring impacts of educational programs in meeting Clean Water Goals of our Communities
5:00		<u>D.B. Bunnell</u> Using upper trophic levels to test the nearshore shunt and mid-depth sink: is the offshore an aquatic desert?	<u>J.R. Smith</u> Natural Resource Damages Assessment and Great Lakes Legacy Act for Removal of Beneficial Use Impairments in the Grand Calumet River AOC	<u>T.D. Malinich</u> The Impacts of Active Movement on Pelagic Larval Dispersal in a Great Lake	

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<p>22. Transitioning from Student to Professional: Easing the Pain <i>Chair: Thomas Lauer</i></p>	<p>39. Using Data and Models to Link Nutrient Loads to Eutrophication Impacts <i>Co-Chairs: Ed Verhamme, Dan Rucinski, and Kevin Fermanich</i></p>	<p>31. Science in Action: the Role of Research and Adaptive Management <i>Co-Chairs: James Diana and Donald Uzarski</i></p>	<p>15. Great Lakes Data Management <i>Chair: Paris Collingsworth</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>K.C. Hornbuckle</u> It's Not So Different: Engineering Graduate School and Career Tracks for Great Lakes Scientists</p>	<p><u>D.K. Rucinski</u> Modeling Hypoxia in Lake Erie: Response to Nutrient Load Reduction</p>	<p><u>D.G. Uzarski</u> Use of a Basin Wide Great Lakes Coastal Wetland Monitoring Program to inform and Evaluate Protection and Restoration Efforts</p>	<p><u>J.P. Smith</u> Web-based Interactive Data Visualization Using The Dygraphs JavaScript Visualization Library</p>	3:40
<p><u>P. Chow-Fraser</u> Settlers of Catan strategies applied to Grad School: a bit of luck and a whole lot of planning</p>	<p><u>P.C. Collingsworth</u> Impacts of Local and Basin-Scale Factors on the Relationship Between Total Phosphorus and Chlorophyll in Lake Erie</p>	<p><u>C.E. Hebert</u> Management of Hyper-abundant Wildlife Reduces Ecosystem Impacts Facilitating Future Restoration Efforts</p>	<p><u>T. Wietsma</u> Improving Limnological Sampling Campaigns Through Real-Time Signal Processing and Machine Learning</p>	4:00
<p><u>T. Lauer</u> Professional References and That Dreaded Recommendation Letter: Getting Good Ones</p>	<p><u>D. Muralidharan</u> An Economic Analysis of Binational Water Quality Improvement in the Great Lakes</p>	<p><u>R.L. Wheeler</u> Spatial Variation of Macroinvertebrate Communities within Two Emergent Plant Zones of Great Lakes Coastal Wetlands</p>	<p><u>N. Tenczar</u> Monitoring the Great Lakes</p>	4:20
<p><u>J.E. Marsden</u> How to Handle the Interview</p>	<p><u>S.C. Chapra</u> Long-term Nutrient Trends for Lake Ontario</p>	<p><u>R.R. Rediske</u> Delisting BUIs in the White Lake Area of Concern</p>	<p><u>T.A.D. Slawecki</u> Metadata Publication: A Best Practice for Data Management</p>	4:40
<p><u>R.A. Sturtevant</u> Serendipity: Outreach, Education and Policy Careers for the Scientist</p>	<p><u>A.S. Chiandet</u> Internal phosphorus loading and metalimnetic algae blooms: case study of an isolated embayment of South-Eastern Georgian Bay</p>	<p><u>J.J. Baustian</u> Measuring restoration outcomes beyond ecology: the interactions between science and management</p>		5:00
	<p>Previous Presentation Continued</p>			5:20

Tuesday, June 4

	202	206	214CD	218AB	322
	<p>4. Establishing a Great Lakes Basin Aquatic Invasive Species Surveillance Plan <i>Co-Chairs: Stephen Hensler, Timothy Strakosh, Randal Snyder, David MacNeill, James Schardt, and Lindsay Chadderton</i></p>	<p>33. Tracking and Understanding Changes in Lake Michigan's Emerging Food Web <i>Co-Chairs: David Bunnell, Tomas Hook, and Hank Vanderploeg</i></p>	<p>11. Linking Chemical Management Actions to Environmental Improvements and Benefits <i>Chair: Dale Phenicie</i></p>	<p>52. Measuring and Modeling Ice and its Impact on Hydrodynamics of Lakes <i>Co-Chairs: Dmitry Beletsky, Jia Wang, and Nathan Hawley</i></p>	<p>35. Using Environmental Gradients to Link Patterns and Processes in Complex Ecosystems <i>Co-Chairs: Alan Wilson, Edward Roseman, Timothy O'Brien, and Stuart Ludsin</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
7:40					
8:00			<p><u>P.C. Van Metre</u> Large Volatilization Losses of PAHs Soon After Application of Coal-Tar-Based Pavement Sealant</p>		<p><u>N.C. Schmidt</u> Modeling Macroinvertebrate Functional Feeding Group Assemblages in Vegetation Zones of Great Lakes Coastal Wetlands</p>
8:20	<p><u>A.S. Trebitz</u> Early Detection Network Design and Search Strategy Issues</p>	<p><u>H.J. Carrick</u> Where Have the Diatoms Gone? A Shift Towards Dominance by the Microbial Food Web in Lake Michigan</p>	<p><u>M. Behum</u> Ecological Relevance of Great Lakes Chemicals of Emerging Concern - Part 1, The Role of Risk Assessment</p>	<p><u>N. Hawley</u> Measurements of the Ice Thickness in Lake Erie 2010-2011</p>	<p><u>E.F. Grimm</u> Characterization and mapping of river plumes in southern Lake Michigan</p>
8:40	<p><u>S.R. Hensler</u> Aquatic Invasive Species Early Detection Monitoring Program Development</p>	<p><u>S. Adlerstein</u> Benthic Population trends in the Great Lakes and Perspectives on Nearshore Sites Influenced by Dreissena and Great Lakes Tributaries.</p>	<p><u>D. Preziosi</u> Ecological Relevance of Great Lakes Chemicals of Emerging Concern - Part 2, The Role of Ecosystem Services Assessment</p>	<p><u>D. Beletsky</u> Modeling winter circulation and ice in Lake Erie</p>	<p><u>A.E. Wilson</u> Do rivers mediate water quality in nearshore areas of Lake Michigan?</p>
9:00	<p><u>J.T. Schloesser</u> Early Detection of Invasive Fishes in Lake Superior</p>	<p><u>Z.G. Driscoll</u> - Zooplankton Trophic Structure in Lake Michigan as Revealed by Stable Isotopes</p>	<p><u>P.C. DeLeo</u> Tools for Screening Environmental Risks of Consumer Product Chemicals in the Great Lakes Watershed</p>	<p><u>J. Wang</u> Analysis of Great Lakes Ice Cover Climatology: Winters 2006-2011</p>	<p><u>J.M. Watkins</u> Spatial Patchiness of Nighttime Distribution of <i>Mysis diluviana</i> Across Light and Temperature Regimes in Lake Ontario</p>
9:20	BREAK				

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13. Bayesian Inference in Great Lakes Research <i>Chair: Jason Doll</i>	41. Advances in Monitoring, Analytical Methods, Data Management and Forecasting Beach Nearshore Water Quality <i>Co-Chairs: David Rockwell and Andrew Gronewold</i>	16. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes <i>Co-Chairs: George Leshkevich and Robert Shuchman</i>	17. Education and Outreach: Increasing Great Lakes Literacy and Place-based Stewardship <i>Co-Chairs: Kristin TePas and Rochelle Sturtevant</i>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<u>J.C. Doll</u> Introduction to Bayesian Inference				7:40
Previous Presentation Continued		<u>G. Leshkevich</u> Multi-sensor Approach to Ice Type Classification and Ice Thickness Measurement in the Great Lakes		8:00
<u>Z. Su</u> Bayesian spatial-temporal modeling and forecasting of Lake Michigan Recreational fishing effort dynamics	<u>D.S. Francy</u> Developing and Implementing the use of Predictive Models for Beach Advisories or Closings at 43 Great Lakes Beaches	<u>C.B. Mouw</u> Status and Recent Recommendations for Remote Sensing of Coastal and Inland Waters	<u>R.G. Goettel</u> New Center for Great Lakes Literacy Creates Synergy among Educators, Scientists, and Citizen Scientists	8:20
<u>M.A. Rutter</u> A Case Study in Applying Bayesian Statistics: Delisting a Great Lakes Area of Concern	<u>A.A. Ritzenhaler</u> Spatial, temporal, and analytical variability in near-shore water quality and its implications on management decisions	<u>R.A. Shuchman</u> An Algorithm to Retrieve Chlorophyll, Dissolved Organic Carbon, and Suspended Minerals from Great Lakes Satellite Data	<u>M.C. Katzer</u> Bringing the excitement of real-world Great Lakes research back to the classroom--Inspiring a new generation	8:40
<u>Y.K. Cha</u> Saginaw Bay phosphorus target reevaluation using a Bayesian hierarchical observation error network (Saginaw Bayes)	<u>L.M. Fry</u> Development of a multimodel framework linking a pathogen loading model to a hydrodynamics model for beach water quality forecasting	<u>R.A. Shuchman</u> A Model for Determining Satellite-Derived Primary Productivity Estimates for Lake Michigan	<u>E.A. LaPorte</u> Engaging the Next Generation of Stewards	9:00
BREAK				9:20

Tuesday, June 4

	202	206	214CD	218AB	322
	<p>4. Establishing a Great Lakes Basin Aquatic Invasive Species Surveillance Plan <i>Co-Chairs: Stephen Hensler, Timothy Strakosh, Randal Snyder, David MacNeill, James Schardt, and Lindsay Chadderton</i></p>	<p>33. Tracking and Understanding Changes in Lake Michigan's Emerging Food Web <i>Co-Chairs: David Bunnell, Tomas Hook, and Hank Vanderploeg</i></p>	<p>38. The Effect of Land Use on Nutrient Dynamics of the Great Lakes: Patterns, Processes, and Solutions <i>Co-Chairs: Jennifer Tank and Sheila Christopher</i></p>	<p>52. Measuring and Modeling Ice and its Impact on Hydrodynamics of Lakes <i>Co-Chairs: Dmitry Beletsky, Jia Wang, and Nathan Hawley</i></p>	<p>35. Using Environmental Gradients to Link Patterns and Processes in Complex Ecosystems <i>Co-Chairs: Alan Wilson, Edward Roseman, Timothy O'Brien, and Stuart Ludsin</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
9:40	<p><u>W.L. Chadderton</u> Aquatic plant surveillance - Results of a rapid Hydrilla verticillata delimitation survey in south-western Laurentian Great Lakes Region</p>	<p><u>B.A. Turschak</u> Changes to the Lake Michigan Trophic Structure as Revealed by Stable C and N Isotopes</p>	<p><u>T.J. Hoellein</u> Effects of the invasive Asian Clam, <i>Corbicula fluminea</i>, on nitrogen transformations in southern Great Lakes tributaries</p>	<p><u>A. Fujisaki</u> Model-simulated interannual variability of Lake Erie ice cover, circulation, and thermal structure in response to atmospheric forcing, 2003-2012</p>	<p><u>R.L. DeBruyne</u> Gradients in thermal Habitat Influence Fish Spawning Phenology</p>
10:00	<p><u>R.J. Snyder</u> Enhanced Early Detection of Invasive Ponto-Caspian Fishes in the Great Lakes</p>	<p><u>M.A. Chriscinske</u> Evaluating Changes in Lake Michigan Prey Fish Diets in Response to Food Web Changes in the Late 1990s and Early 2000s</p>	<p><u>A.J. Reisinger</u> The Influence of Land-Use on Pelagic Nutrient Uptake Along the River Continuum in Two Contrasting Lake Michigan Watersheds</p>	<p><u>A. Oveisy</u> Winter Modelling of Lake Erie (2004-05) using ELCOM</p>	<p><u>M.E. Sierszen</u> Depth gradients in food web processes linking Lake Superior habitats</p>
10:20	<p><u>A.J. Fusaro</u> Mapping Cumulative Risk for Potential Great Lakes Invaders: Watchlist Species Assessments</p>	<p><u>E.K. Martin</u> A comparison of recent and historical time periods: Changes in the smallmouth bass population of Waughoshance Point, northern Lake Michigan</p>	<p><u>J.L. Tank</u> Nutrient Uptake in 3 Michigan Rivers Reflects a Gradient of Human Land Use</p>	<p><u>A.J. Campbell</u> Kinematics and Dynamics of Surface Waves through Ice in Lakes</p>	<p><u>R.D. Briland</u> Prey-Fish Community Structure in Lake Erie: Historical Shifts and Their Drivers</p>
10:40	PLENARY SESSION (Loeb Playhouse)				

214A	214B	218C	314	
13. Bayesian Inference in Great Lakes Research <i>Chair: Jason Doll</i>	41. Advances in Monitoring, Analytical Methods, Data Management and Forecasting Beach Nearshore Water Quality <i>Co-Chairs: David Rockwell and Andrew Gronewold</i>	16. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes <i>Co-Chairs: George Leshkevich and Robert Shuchman</i>	17. Education and Outreach: Increasing Great Lakes Literacy and Place-based Stewardship <i>Co-Chairs: Kristin TePas and Rochelle Sturtevant</i>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<u>C. Wellen</u> On the (extreme) benefits of being a Bayesian watershed modeler: lessons learned in Hamilton Harbour	<u>S.J. Joshi</u> Communicating near shore water quality data with stakeholders using an interactive website	<u>Z. Lee</u> A robust approach to directly measure water-leaving radiance in the field	<u>L.M. Manzo</u> Teaching Great Lakes Climate Science in a Changing World	9:40
<u>M. Ramin</u> Bayesian synthesis of predictions from different models for setting water quality criteria in Hamilton Harbour, Ontario, Canada	<u>P.J. Tonellato</u> Actionable Public Health Information from a Temporal Milwaukee Beach Water Quality Database	<u>M.D. James</u> Sustained Autonomous Profiling in Lake Superior	<u>A.K. Greene</u> Ohio State University's Stone Laboratory Climate Expedition: Engaging Learners with Local Implications of a Global Issue	10:00
<u>G.B. Arhonditsis</u> Useless Arithmetic? Lessons Learned and Future Perspectives of Aquatic Biogeochemical Modeling	<u>M.R. Silva</u> Effect of Hydrological and Geophysical Factors on Formation of Standing Water and Fecal Indicator Bacteria Reservoirs at a Lake Michigan Beach	<u>H. Pettitt-Wade</u> Fine scale movements of yellow perch and largemouth bass in semi-naturalized ponds using a High Residency acoustic telemetry positioning system	<u>S.L. Dann</u> 4-H Great Lakes and Natural Resources Camp: A summer place-based learning opportunity for youth	10:20
PLENARY SESSION (Loeb Playhouse)				10:40

Tuesday June 4

	202	206	214CD	218AB	322
	<p>4. Establishing a Great Lakes Basin Aquatic Invasive Species Surveillance Plan <i>Co-Chairs: Stephen Hensler, Timothy Strakosh, Randal Snyder, David MacNeill, James Schardt, and Lindsay Chadderton</i></p>	<p>33. Tracking and Understanding Changes in Lake Michigan's Emerging Food Web <i>Co-Chairs: David Bunnell, Tomas Hook, and Hank Vanderploeg</i></p>	<p>38. The Effect of Land Use on Nutrient Dynamics of the Great Lakes: Patterns, Processes, and Solutions <i>Co-Chairs: Jennifer Tank and Sheila Christopher</i></p>	<p>51. Coupled Physical and Biogeochemical Processes in Large Lakes <i>Co-Chairs: Mijanur R. Chowdhury and Mathew Wells</i></p>	<p>7. The Potential Impacts of Climate Change on the Great Lakes <i>Chair: Keith A. Cherkauer</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
1:40	<u>A.K. Bowen</u> Surveillance for Ruffe in the Great Lakes	<u>R. Pichlova-Ptacnikova</u> Implications of <i>Bythotrephes</i> and <i>Cercopagis</i> predation impacts on Lake Michigan food webs	<u>S.J. Livingston</u> An Alternative Management Practice to Improve Water Quality in Farmed Closed Depressional Areas	<u>B. Hlevca</u> The effect of upwelling events in Lake Ontario upon thermal variability in Toronto Waterfront embayments	<u>A.D. Gronewold</u> Climate Change Impacts on the Water Budget and Water Level Dynamics of the Great Lakes Basin
2:00	<u>A.J. Tucker</u> eDNA surveillance for Eurasian Ruffe in the Laurentian Great Lakes	<u>P.E. Bourdeau</u> The effect of <i>Bythotrephes</i> on <i>Daphnia</i> vertical distribution in Lake Michigan	<u>R.T. Davis</u> Effect of Floodplain Constructon in Agricultural Streams on Nitrogen, Phosphorus, and Sediment Export	<u>M. Chowdhury</u> Characterization of episodic internal turbulent mixing in the stratified waters of Lakes Simcoe, ON, Canada	<u>J.R. Stoll</u> Climate Change and Coastal Community Resiliency: An Approach to Disaster Mitigation Policy and Funding Mechanisms
2:20	<u>J.J. Amberg</u> Unmuddying waters of environmental DNA: Importance of understanding birds as vectors of DNA transfer	<u>J.A. Berges</u> Immunochemical Approaches to Determine Diet of an Invasive, Zooplankton Predator in Lake Michigan	<u>L.F. Leon</u> Review and Analysis of Loading Patterns from Detailed Inflow Datasets in Lake Erie (implications for modeling and more...)	<u>J.H. Fillingham</u> Towards a Parameterization of CO ₂ Gas Transfer Velocity for Biogeochemical Modeling of the Great Lakes	<u>J. Day</u> Developing Resilience to Climate Change Impacts on Tourism in Great Lakes Destination Communities.
2:40	<u>M.K. Drotz</u> The Chinese Mitten Crab in Lake Vänern, Sweden	<u>E. Rutherford</u> Consequences of Altered Spatial Structure of Zooplankton for Larval Fish Growth and Survival in Lakes Michigan and Huron	<u>L.T. Johnson</u> The Influence of Land Use and Hydrology on Annual Nutrient Yields in Ohio Watersheds	<u>M.G. Wells</u> Observations and modelling of river intrusions into a stratified reservoir	<u>R. Stock</u> Adaptive Synergies: Mainstreaming Resiliency in Great Lakes Cities
3:00	<u>R.P. Boudreau</u> Lake Superior National Marine Conservation Area Cancelled	<u>J.L. Withers</u> Larval yellow perch, alewife, and predatory zooplankton in near-shore southeastern Lake Michigan: Potential for competition?	<u>D.R. Smith</u> Phosphorus Loading to Lake Erie - Lessons from Indiana's St. Joseph River Watershed Conservation Effects Assessment Project	Previous Presentation Continued	<u>S.L. LaBuhn</u> Comparative Effects of Climate on Green Bay Stratification
3:20	BREAK				

214A	214B	218C	314	
	<p>41. Advances in Monitoring, Analytical Methods, Data Management and Forecasting Beach Nearshore Water Quality <i>Co-Chairs: David Rockwell and Andrew Gronewold</i></p>	<p>16. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes <i>Co-Chairs: George Leshkevich and Robert Shuchman</i></p>	<p>17. Education and Outreach: Increasing Great Lakes Literacy and Place-based Stewardship <i>Co-Chairs: Kristin TePas and Rochelle Sturtevant</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
	<p><u>M.B. Nevers</u> Evaluation of 2011-2012 Beach Water Quality Management Decision Support Systems for Five Chicago Beaches</p>	<p><u>L.G. Rudstam</u> Interpreting Acoustic Echograms based on Multifrequency Analysis</p>	<p><u>J.H. Vail</u> Coordinated On-board Education and Outreach Project (COEOP)</p>	1:40
	<p><u>D. Beachler</u> 2013 NOAA Beach Water Quality Experimental Forecasting for Five Chicago Park District Beaches</p>	<p><u>M.J. Sayers</u> Harmful Algal Bloom Mapping for the Great Lakes Using MODIS Satellite Imagery</p>	<p><u>B.C. Schroeder</u> Growing Place-Based Education Opportunities through Community Partnerships: Case Studies from Northeast Michigan</p>	2:00
	<p><u>P.R. Jackson</u> Circulation and Mixing in Nearshore Lake Erie in the Vicinity of Villa Angela Beach and Euclid Creek, Cleveland, Ohio</p>	<p><u>Z.B. Raymer</u> A Robust Satellite Algorithm for River Plume Mapping within the Great Lakes Basin</p>	<p><u>C.A. McCoy</u> Making the Invisible Visible: Engaging Schoolchildren in Great Lakes Legacy Act Remediation</p>	2:20
	<p><u>P. Thupaki</u> Evaluating the role of Sediment-Bacteria Interactions on <i>Escherichia coli</i> Concentrations at Beaches in Southern Lake Michigan</p>	<p><u>A.G. Grimm</u> Mapping <i>Cladophora</i> and Other Submerged Aquatic Vegetation in the Great Lakes Using Satellite Imagery</p>	<p><u>A. Fracz</u> Expansion of the URBAN - Urban-Rural Bio-monitoring and Assessment Network Program to train First Nations students</p>	2:40
	<p><u>K.A. Bakkila</u> Benthic Algae as a Contributing Source of Shoreline Bacterial Contamination</p>	<p><u>C.E.K. Markle</u> Comparing approaches to model habitat suitability for Blanding's turtles (<i>Emydoidea blandingii</i>) in the Georgian Bay archipelago</p>	<p><u>T.E. Hallesy</u> Undo the Great Lakes Chemical Brew: Changing How People Use and Dispose of Their Pharmaceuticals and Personal Care Products</p>	3:00
BREAK				3:20

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	<p>5. Tools for Predicting and Managing Invasions of Potentially Harmful Species in the Great Lakes <i>Co-Chairs: Andrew Reed, Jeffrey Ram, Randall Hicks, Jennifer Sieracki, and Jonathan Bossenbroek</i></p>	<p>33. Tracking and Understanding Changes in Lake Michigan's Emerging Food Web <i>Co-Chairs: David Bunnell, Tomas Hook, and Hank Vanderploeg</i></p>	<p>38. The Effect of Land Use on Nutrient Dynamics of the Great Lakes: Patterns, Processes, and Solutions <i>Co-Chairs: Jennifer Tank and Sheila Christopher</i></p>	<p>51. Coupled Physical and Biogeochemical Processes in Large Lakes <i>Co-Chairs: Mijanur R. Chowdhury and Mathew Wells</i></p>	<p>7. The Potential Impacts of Climate Change on the Great Lakes <i>Chair: Keith A. Cherkauer</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
3:40	<p><u>J.L. Sieracki</u> Predicting Secondary Spread of Invasive Species by Commercial Ship Ballast Water Using a Dynamic Spatial Model</p>	<p><u>K.M. Keeler</u> Can invasive <i>Bythotrephes longimanus</i> be controlled through fish consumption in Lake Michigan?</p>	<p><u>J.T. Waples</u> Dynamics of particle and phosphorus loading to the Milwaukee River from rural, suburban, and urban sub-watersheds.</p>	<p><u>S. Missaghi</u> Influence of fluid motion on growth rate and spatial (vertical) distribution of <i>Microcystis aeruginosa</i></p>	<p><u>C. Viswanathan</u> Influence of Land Use, Precipitation and Mean Monthly Temperature on High Flow Trends in an Urban Watershed</p>
4:00	<p><u>J.M. Bossenbroek</u> A Multi-model Approach to Identify Locations for Ballast Water Exchange in the Laurentian Great Lakes</p>	<p><u>D.M. Warner</u> Is <i>Mysis diluviana</i> Abundance Controlled by Top-Down Forces?</p>	<p><u>T.S. Seilheimer</u> Landscape Indicators, Forest Disturbance, and Water Quality: Models for Lake Michigan Watersheds</p>	<p><u>M.Y. Jameel</u> Biological and Water Quality characterization of Lake Michigan River Plume</p>	<p><u>G.L. Street</u> The Impact of Temperature and Global Warming on Sulfuric Acid from Mine Tailings</p>
4:20	<p><u>A.J. Reed</u> Molecular Detection of Bacteria Discharged into the Duluth-Superior Harbor in the Ballast Water of Commercial Ships</p>	<p><u>J.G. Mychek-Londer</u> Slimy and deepwater sculpin predation on bloater eggs: Influence on bloater recruitment variability in Lake Michigan?</p>	<p><u>R.R. Essig</u> Nutrient Loading Spatial and Temporal Trends and Contribution Comparison of Lake Michigan Tributaries</p>	<p><u>K. Liznick</u> Explaining the Increasing Mercury Trend in Lake Erie: the Role of Invasive Species</p>	<p><u>L.L. Wang</u> the Impact of Climate Change on Soil Erosion in Great Lakes Region</p>
4:40	<p><u>J.L. Ram</u> Molecular Methods for Live-Dead Analysis of Microorganisms in Ballast and Environmental Waters</p>	<p><u>C.J. Houghton</u> Impacts of Round Goby on Diet and Distribution of Age-0 Yellow Perch.</p>	<p><u>S.M. Powers</u> Landscape differences in the variability of stream nitrogen and phosphorus input to the Great Lakes</p>	<p><u>M.D. Rowe</u> Simulating the Impact of Dreissenid Mussel Grazing as a Function of Turbulence Parameterization</p>	
5:00	<p><u>C.L. Jerde</u> Modeling Allee effects due to sterile grass carp introductions: An unplanned experiment in the Great Lakes</p>	<p><u>M.L. Henebry</u> Round Goby Diets, Fatty Acids, and Tissue $\delta^{13}C$ and $\delta^{15}N$ in Near-shore Lake Michigan.</p>	<p><u>P.C. Van Metre</u> The Midwest Stream Quality Assessment</p>	<p><u>E.A. Cowen</u> How an Invasive Bivalve Potentially Led to Increased Chlorophyll-a Levels in a Large Lake</p>	
5:20	<p><u>B.K. Hand</u> Protecting the Integrity of the Great Lakes through Increased AIS Preparedness, Monitoring, and Response Capabilities</p>			<p>Previous Presentation Continued</p>	

214A	214B	218C	314	
	48. Safer Great Lakes Beaches: Improving Water Quality and Public Health Protection <i>Chair: Elizabeth Hinchey Malloy</i>	16. Remote Sensing, Visualization, and Spatial Data Applications for the Great Lakes <i>Co-Chairs: George Leshkevich and Robert Shuchman</i>	17. Education and Outreach: Increasing Great Lakes Literacy and Place-based Stewardship <i>Co-Chairs: Kristin TePas and Rochelle Sturtevant</i>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
	<u>A.C. Mednick</u> Improving Beach Health through the Integration of Sanitary Surveys, Rapid Methods, and Mitigation: Coast-wide Efforts in Wisconsin	<u>F. Yousef</u> Using LiDAR to reconstruct the history of a coastal environment influenced by legacy mining	<u>M. Bohling</u> Public Outreach of Strategic Habitat Restoration Activities to Address Areas of Concern, Species Diversity and Habitat in the Huron-Erie Corridor	3:40
	<u>S.J. U'Ren</u> Grand Traverse Bay Watershed - Great Lakes Restoration Initiative Beach Restoration Projects	<u>R.W. Sawtell</u> High Resolution Satellite-Based Water Depth Mapping in the Great Lakes	<u>J. Gunn</u> The Green Marina Education Project: Using collaboration and technology to more effectively deliver training to marina operators	4:00
	<u>R.J. Oster</u> Quantitative Assessment of Bacterial Pathogens at Great Lakes Beaches	<u>J. Tan</u> Monitoring water quality of episodic river inflow plumes in Southern Lake Michigan using remote sensing	<u>A. Samples</u> Clean Marina Classroom: Online training as an additional vector of education	4:20
	<u>X.X. Wang</u> Numerical Modeling of Wave-induced Beach Ground Water Flow and Biocolloid Transport in Sandy Beach	<u>B.M. Lesht</u> Comparison of MODIS Chlorophyll Retrievals Made Using a Tuned Band-ratio Model with a New Independent Data Set	<u>M.A. Breederland</u> Infrastructure & Maintenance in Michigan Working Waterfronts: Broken Funding Mechanisms & Community Impacts	4:40
		<u>C.N. Brooks</u> Creating a Representative Lake Erie Time Series of Remote Sensing-based Water Quality Data Sets		5:00
				5:20

Wednesday, June 5

	202	206	214CD	218AB	322
	3. Developing and Implementing Risk Assessment for Invasive Species <i>Co-Chairs: Reuben Keller and David Lodge</i>	32. The Impacts of Environmental Stressors on the Saginaw Bay Ecosystem <i>Co-Chairs: Craig Stow, Nathan Hawley, Charles Roswell, and Tomas Hook</i>	25. Restoration of Great Lakes Fish Communities: Goals, Challenges, and Benefits <i>Chair: Owen Gorman</i>	50. Air, Land, Water, and Ice: Interactions in the Climate System of Lake Regions <i>Co-Chairs: Brent Lofgren and Jia Wang</i>	6. Changing Climate, Changing Ecology in the Great Lakes Region <i>Co-Chairs: David Bunnell, David Warner, and Ralph Grundel</i>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
8:00	<u>D.M. Lodge</u> Risk Assessment for Intentionally Introduced Species: Scientific Progress and Policy Challenges	<u>M.D. Selzer</u> A Reflection on Restoration Progress in the Saginaw Bay Watershed	<u>W.W. Fetzer</u> 100 Years of Nearshore Fish Community Changes in Oneida Lake, NY		<u>B.B. Forsman</u> A flood case study. The bio-geochemical response of Western Lake Superior to the June 2012 Flood, a five-hundred-year storm event.
8:20	<u>E. Rutherford</u> Forecasting Impacts of Future Invaders on Lake Erie's Food Web	<u>D. Beletsky</u> Modeling circulation and residence time of Saginaw Bay	<u>C.M. Mayer</u> Impacts of Shoreline Alteration on Nearshore Fish Communities: A Reduction in Community Complexity and Habitat Use		<u>C. DeMarchi</u> Comparing Coupled Hydrosphere-Atmosphere Research Model (CHARM) simulation of Great Lakes water temperature to the FVCOM model simulation and experimental data
8:40	<u>C.A. Gantz</u> Predicting invasive aquatic plant species in the Laurentian Great Lakes Basin using a questionnaire-style risk assessment	<u>N. Hawley</u> Sediment Resuspension in Saginaw Bay	<u>E. George</u> Application of acoustic telemetry to lake sturgeon restoration in the Detroit-St. Clair River System	<u>A. Martinez</u> Dispersion Modeling of PCB Airborne Emissions from the Indiana Harbor and Ship Canal into the local Atmosphere	<u>Y.M. Brooks</u> Molecular measurements in sediment cores linking pollution, climate and watershed management
9:00	<u>R.P. Keller</u> Risk Assessment for Fishes in the Laurentian Great Lakes	<u>N.L. Jessee</u> Current and Historical Monitoring of Saginaw Bay Water Quality Using Satellite Remote Sensing	<u>J. Janssen</u> Deepwater Lake Trout Spawning Habitat: a River Runs Through It?	<u>B. Wang</u> Evaluating gas transfer velocity with in situ free floating PIV/floating chamber measurements	<u>S.L. Ederer</u> Plant-Microbial Associations and N Fixation Sensitivity to Changing Moisture Levels in a Lake Michigan Beach-Ridge System
9:20	BREAK				

Cancelled

214A	214B	218C	314	
46. Habitat Restoration Challenges <i>Chair: Karen Rodriguez</i>	8. Bio-effects Surveillance Toward an Early Warning System for Toxics in the Great Lakes <i>Co-Chairs: Edwin Smith, Jo Banda, and Jason Berninger</i>	55. General Contributions <i>Co-Chairs: Carolyn Foley and Lisa Merrifield</i>	42. Bird Botulism: What We Do and Don't Know <i>Chair: Richard Whitman</i>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<u>L.A. Brinkworth</u> Aminopyralid (MilestoneTM) Utility in Rangeland Restoration Programs		<u>M. Baskaran</u> Report on the Workshop entitled "Recent Changes in the Biogeochemistry of the Great Lakes System" held on 11-13 March, 2013 at Wayne State University, Detroit, MI		8:00
<u>L.J. Blume</u> Interagency Quality Assurance Guidance for Habitat Restoration Projects	<u>J.A. Banda</u> Early Warning Program to Detect and Identify Contaminants of Emerging Concern (CECs) and Their Effects to Fish and Wildlife	<u>M. Corcoran</u> Sedimentation Rates in Lake Michigan Using ²¹⁰ Pb, ¹³⁷ Cs, and ²⁴¹ Am	<u>S. Farha</u> Avian Botulism in Distressed Lake Environments: Lessons learned from a multi-year, multi-agency collaborative study.	8:20
<u>P. Bijhouwer</u> Engineering With Nature: Increasing Habitat Value and Invertebrate Secondary Production on Great Lakes Coastal Structures	<u>V. Blazer</u> Fish Health Endpoints as Indicators of Environmental Health at Areas of Concern: Considerations and Findings	<u>N.A. Kramski</u> Movements of Listed Grass Pickerel <i>Esox americanus vermiculatus</i> in an Agricultural Drain and the Implications for Drain Maintenance	<u>J.R. Peller</u> In vitro aqueous and atmospheric chemistry of decaying/decomposing Cladophora	8:40
<u>R.M. Kuhaneck</u> Vegetation on riprapped shorelines: implications for management of invertebrate communities and restoration of nearshore areas	<u>C.M. Hahn</u> Biological Effects of Environmental Contaminants on Gene Expression Endpoints in Fishes of the Great Lakes	<u>S.A. Wängberg</u> Biodiversity in Lake Vänern - a large lake in northern Europe - qualities and threats.	<u>M.J. Sadowsky</u> Association of <i>Clostridium botulinum</i> with the Macroalga Cladophora in the Great Lakes	9:00
BREAK				9:20

Wednesday, June 5

	202	206	214CD	218AB	322
	<p>3. Developing and Implementing Risk Assessment for Invasive Species <i>Co-Chairs: Reuben Keller and David Lodge</i></p>	<p>32. The Impacts of Environmental Stressors on the Saginaw Bay Ecosystem <i>Co-Chairs: Craig Stow, Nathan Hawley, Charles Roswell, and Tomas Hook</i></p>	<p>25. Restoration of Great Lakes Fish Communities: Goals, Challenges, and Benefits <i>Chair: Owen Gorman</i></p>	<p>50. Air, Land, Water, and Ice: Interactions in the Climate System of Lake Regions <i>Co-Chairs: Brent Lofgren and Jia Wang</i></p>	<p>6. Changing Climate, Changing Ecology in the Great Lakes Region <i>Co-Chairs: David Bunnell, David Warner, and Ralph Grundel</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
9:40	<p><u>E.K. Grey</u> Herpetofauna Risk Assessment for the Great Lakes</p>	<p><u>C.A. Stow</u> Saginaw Bay Water Quality: Spatial and Temporal Patterns</p>	<p><u>N.E. Mandrak</u> Recovery of Silver Chub <i>Macrhybopsis storeriana</i> in Lake Erie Cancelled</p>	<p><u>J.D. Lenters</u> Lake Superior's Air, Water, and Ice: Seasonal Interactions Among Evaporation, Water Temperature, and Ice Cover on the World's Largest Lake</p>	<p><u>L.C. Gereaux</u> Observing Effects of Climate Anomalies and Episodic Weather Events on Muskegon Lake Phytoplankton Productivity Using Time-Series Data.</p>
10:00	<p><u>S.E. Kuebbing</u> To eat or not to eat? Risks associated with harvesting invasive species for human consumption</p>	<p><u>C. DeMarchi</u> An Analysis of the Nutrient and Sediment Loads Entering Saginaw Bay</p>	<p><u>C.A. Stepien</u> Comparative Population Genetic Structure of Walleye and Yellow Perch: Interplay of Temporal, Glacial, and Life History Patterns</p>	<p><u>J. Wang</u> A record breaking low ice cover over the Great Lakes during winter 2011/2012</p>	<p><u>C.R. Gurholt</u> Seed Bank Purgatory: What Drives Compositional Change of Great Lakes Coastal Wetlands</p>
10:20	<p><u>G.H. Hitzroth</u> Great Lakes Risk Assessment Tools: Outreach for Managers, Retailers and Hobbyists</p>	<p><u>E.M. Verhamme</u> Ecosystem Dynamics in Saginaw Bay: Insights into Nutrient Transport and Eutrophication Using Models</p>	<p><u>O.T. Gorman</u> Restoration of the Native Fish Community in Lake Superior, Were We Successful or Just Plain Lucky?</p>	<p><u>L. Fry</u> The Great Lakes Runoff Intercomparison Project Phase 1 (Lake Michigan): Summary of results and plans for Phase 2 (Lake Ontario)</p>	<p><u>T.A. Patterson</u> Assessing Effects of Climate Change on the Endangered Karner Blue Butterfly</p>
10:40	PLENARY SESSION (Loeb Playhouse)				

214A	214B	218C	314	
46. Habitat Restoration Challenges <i>Chair: Karen Rodriguez</i>	8. Bio-effects Surveillance Toward an Early Warning System for Toxics in the Great Lakes <i>Co-Chairs: Edwin Smith, Jo Banda, and Jason Berninger</i>	55. General Contributions <i>Co-Chairs: Carolyn Foley and Lisa Merrifield</i>	42. Bird Botulism: What We Do and Don't Know <i>Chair: Richard Whitman</i>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<u>J.J. Baustian</u> Restoring Hydrologic Connectivity in Lake Erie Coastal Marshes to Improve Water Quality	<u>N. Neureuther</u> Determining the impacts of toxics in the Great Lakes using genomic biomarkers of mussels involved in the contaminant monitoring of the NOAA Mussel Watch Program	<u>N. Stadler-Salt</u> Overview of Great Lakes Conditions and Trends I: State of Great Lakes Water Quality	<u>M.N. Byappanahalli</u> Macroinvertebrate response to decomposing <i>Cladophora</i> and potential <i>Clostridium botulinum</i> bioaccumulation	9:40
<u>F.A. Fitzpatrick</u> Baseline Geomorphic and Habitat Data for Great Lakes Rivermouth Habitat Improvement - Sheboygan River Area of Concern	<u>N. Garcia-Reyero</u> Pathway-based Monitoring of Biological Effects at Great Lakes sites	<u>J. Adams</u> Overview of Great Lakes Conditions and Trends II: State of Great Lakes Aquatic-Dependent Life	<u>K.P. Kenow</u> Distribution and Foraging Patterns of Waterfowl on Lake Michigan with Implications for Exposure to Botulinum Toxin	10:00
<u>E.S. Flynn</u> Factors affecting herbicide selection and use in rangeland restoration programs	<u>J.P. Berninger</u> Novel Effects-based Monitoring Approaches to Evaluate Chemicals of Emerging Concern in Great Lakes Areas of Concern	<u>E. Hinchey Malloy</u> Overview of Great Lakes Conditions and Trends III: State of Great Lakes Landscapes and Natural Processes		10:20
PLENARY SESSION (Loeb Playhouse)				10:40

	202	206	214CD	218AB	322
	<p>1. Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact <i>Co-Chairs: Alexander Karatayev and Lyubov Burlakova</i></p>	<p>32. The Impacts of Environmental Stressors on the Saginaw Bay Ecosystem <i>Co-Chairs: Craig Stow, Nathan Hawley, Charles Roswell, and Tomas Hook</i></p>	<p>10. Detection, Impacts and Management of Contaminants in the Great Lakes Part 1: Legacy Contaminants <i>Co-Chairs: Laura Kammin and Marta Venier</i></p>	<p>50. Air, Land, Water, and Ice: Interactions in the Climate System of Lake Regions <i>Co-Chairs: Brent Lofgren and Jia Wang</i></p>	<p>6. Changing Climate, Changing Ecology in the Great Lakes Region <i>Co-Chairs: David Bunnell, David Warner, and Ralph Grundel</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
1:40	<p><u>R.A. Sturtevant</u> Great Lakes Invasive Species Organism Impact Assessments</p>	<p><u>S.N. Francoeur</u> Benthic Macroscopic Primary Producers in Saginaw Bay: Identity, Biomass, Distribution, Production, and Regulation</p>	<p><u>T.G. Nettesheim</u> Are emission reduction strategies working? An assessment of PAHs data from the Integrated Atmospheric Deposition Network</p>	<p><u>M. Notaro</u> Simulation of heavy lake-effect snowstorms across the Great Lakes Basin by RegCM4</p>	<p><u>T. Ozersky</u> Effects of elevated temperature on a keystone copepod in Lake Baikal, Russia: experiments and numerical modeling</p>
2:00	<p><u>M.A. Evans</u> Inadvertent Oligotrophication of North American Great Lakes Part 2: Lakes Erie and Ontario</p>	<p><u>S.D. Peacor</u> Multiple Sources of Beach Fouling in Saginaw Bay, Lake Huron: Not Just <i>Cladophora</i></p>	<p><u>B.J. Mahler</u> Pavement Sealcoat, PAHs, and the Environment: An Overview</p>	<p><u>B. Music</u> Great Lakes Hydrology Under Present and Future Climate Conditions Simulated by Regional Climate Models</p>	<p><u>L.N. Ivan</u> Climate-change induced impacts on Lake Michigan fish habitat availability</p>
2:20	<p><u>A.Y. Karatayev</u> Twenty Five Years of Changes in <i>Dreissena</i> spp. Populations in Lake Erie</p>	<p><u>M.J. Cooper</u> Abiotic Drivers and Temporal Variability of Saginaw Bay Wetland Invertebrate Communities</p>	<p><u>A.M. Robinson</u> Analysis of Temporal Trends of Polycyclic Aromatic Hydrocarbon Loadings in Lake Sediments of the Upper Great Lakes Region</p>	<p><u>K.D. Holman</u> Influence of the Background State on Rossby Wave Propagation into the Great Lakes Region using Reanalysis Data and Model Simulations</p>	<p><u>J.P. Leblanc</u> Potential Muskellunge Population Declines in Southeastern Georgian Bay Resulting from Multiple Coastal Wetland Stressors</p>
2:40	<p><u>V.A. Karatayev</u> Eutrophication versus <i>Dreissena</i>: a Century of Change in the Lake Oneida's Molluscan Community</p>	<p><u>H.M.H. Siersma</u> Distribution and Abundance of <i>Hexagenia</i> spp. in Saginaw Bay, 1954-2012: Moving Towards Recovery?</p>	<p><u>A. Salamova</u> Post-1990 Trends of PCBs and Organochlorine Pesticides in the Atmosphere and Fish from the Great Lakes are Similar</p>	<p><u>B.M. Lofgren</u> The New Normal? Water Budget and Thermal Structure Projections Under Climate Change Using CHARM</p>	<p><u>Y.C. Kao</u> The Effects of Climate Change on the Growth and Consumption by Salmonines in Lakes Michigan and Huron</p>
3:00	<p><u>M.P. Gaikowski</u> Efficacy and Non-Target Animal Safety of Formulated <i>Pseudomonas fluorescens</i> (Pf-CL145A) (ZEQUANOX®) to Control Dreissenids in Open Waters</p>	<p><u>Y.C. Kao</u> Relative impacts of nutrient loadings and invasive species on a Great Lakes food web: an Ecopath with Ecosim analysis.</p>	<p><u>R.F. Marek</u> PCB Metabolites in Sediment and Porewater in a Lake Michigan Waterway</p>		<p><u>C.R. Biberhofer</u> How is GCC affecting habitat quality and quantity of Northern pike in eastern Georgian Bay?</p>
3:20	BREAK				

214A	214B	218C	314	
<p>19. New Frontiers of Great Lakes Policy: Where Science and Stakeholders Meet <i>Co-Chairs: Kathleen Williams, Paula Antunes, and Corrina Barrett</i></p>	<p>27. African Great Lakes in Transition <i>Co-Chairs: Randall Hicks, Sergei Katsev, and Stephanie Guildford</i></p>	<p>14. Ecosystem Modeling to Support Decision-Making <i>Co-Chairs: Jennifer Read and Judy Beck</i></p>	<p>30. Large-lake Microbial Ecology <i>Co-Chairs: Stuart Jones, Maureen Coleman, and Ryan Newton</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>C. Masson</u> Respond with Awareness, Commit to Opportunity: Towards a Regional Vision for the Great Lakes and St. Lawrence River</p>	<p><u>T.C. Johnson</u> A 1.2 million year record of rainfall and temperature from Lake Malawi</p>	<p><u>T.A.D. Slawewski</u> Identifying Regional Data Management and Decision Support Tools: Process and Outcomes</p>	<p><u>M.J. Snider</u> Probing the Pigments and Physiology of Cyanobacterial Mats that are Modern Analogs of Life on Early Earth</p>	1:40
<p><u>D.E. Eisenhauer</u> Using the Institutional Analysis and Development Framework to Understand Adaptive Capacity and Storm Water Management in the Face of Climate Change</p>	<p><u>Z. Mohd-Rozhan</u> Sedimentary Fluxes in Lake Malawi (Africa) Determined Using Moored Sequential Sediment Traps</p>	<p><u>T.S. Wagner</u> Translating an Observation-based Conceptual Site Model to a Hydrodynamic and Morphodynamic Numerical Model of a Great Lakes Estuary</p>	<p><u>M.L. Coleman</u> Microbial Community and Population Diversity in the Laurentian Great Lakes</p>	2:00
<p><u>G.L. Street</u> A Challenge: How to Remediate the Largest TCE Plume in the U.S.</p>	<p><u>J. Li</u> Carbon and Nutrient Cycling in Sediments of Lake Malawi</p>	<p><u>G.L. Boyer</u> Two Case Studies on the Use of Near Real Time Monitoring Systems to Determine Nutrient Loads to Lake Ontario; Evaluating the Importance of Episodic Events.</p>	<p><u>A.K. Ormiston</u> Temporal and spatial variability of microbial community compositions along a transect from the western basin to the central basin of Lake Erie</p>	2:20
<p><u>S. Weicksel</u> What's in a Name? Labeled Versus Unlabeled Choice Experiments for Valuing Great Lake Beach Characteristics</p>	<p><u>G.L. House</u> Photosynthetic Efficiency of Phytoplankton in Large Lakes: A Comparison Between Lake Malawi and Lake Superior</p>	<p><u>D.C. Flanagan</u> WEPP Modeling in the Great Lakes Basin</p>	<p><u>E.B. Young</u> Effects of Dreissenid Mussels and Benthic Algae on Benthic Bacterial Communities</p>	2:40
<p><u>L.J. Blume</u> Using Assessments and Metrics to Improve the Utility of Quality Systems for Achieving Program Outcomes</p>	<p><u>M.A. Macuiane</u> Changes in fish community structure associated with cage aquaculture farming in Lake Malawi</p>	<p><u>S.A. Ruberg</u> Early Warning of Hypoxia Impacts on Water Intakes</p>	<p><u>M. Fitzpatrick</u> Microbial - Planktonic Food Web Dynamics in the Great Lakes: Changing Autotrophic and Heterotrophic Communities</p>	3:00
BREAK				3:20

	202	206	214CD	218AB	322
	<p>1. Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact <i>Co-Chairs: Alexander Karatayev and Lyubov Burlakova</i></p>	<p>32. The Impacts of Environmental Stressors on the Saginaw Bay Ecosystem <i>Co-Chairs: Craig Stow, Nathan Hawley, Charles Roswell, and Tomas Hook</i></p>	<p>10. Detection, Impacts and Management of Contaminants in the Great Lakes Part 1: Legacy Contaminants <i>Co-Chairs: Laura Kammin and Marta Venier</i></p>	<p>54. Physical Processes in Large Lakes: A Celebration of the Career of David Schwab <i>Co-Chairs: Cary Troy, Dmitry Beletsky, Chin Wu, Ram Yerubandi, and Eric Anderson</i></p>	<p>36. Ecosystem Tipping Points: Science and Decision Making <i>Chair: Bryan Pijanowski</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
3:40	<p><u>L.E. Burlakova</u> Assessing Unionid Refuges and Dreissenid Impacts in the Lower Great Lakes</p>	<p><u>C.R. Roswell</u> Patterns of Age-0 Yellow Perch Diets, Growth, and Mortality in Saginaw Bay, Lake Huron</p>	<p><u>W. Koh</u> Polychlorinated Biphenyls and hydroxylated metabolites in human blood serum from regional populations</p>	<p><u>R. Yerubandi</u> An Environmental Prediction System for the Great Lakes Based on Coupled Numerical Models</p>	<p><u>B.C. Pijanowski</u> Tipping points: science and policy</p>
4:00	<p><u>C.V. Florence</u> Unionid abundance, diversity, size and dreissenid infection within and outside a thermal plume in Lake Erie</p>	<p><u>T.M. Sesterhenn</u> Implications of multiple hatching sites for larval dynamics in the resurgent Saginaw Bay walleye population</p>	<p><u>R.G. Vannier</u> Spatio-temporal Trends of Polychlorinated Biphenyl Inventories and Accumulation Rates in Michigan Inland Lake Sediments</p>	<p><u>P. Thupaki</u> Mean summer circulation in Saginaw Bay and Lake Huron: Results from a high resolution unstructured grid numerical model</p>	<p><u>B. Miller</u> Engaging Great Lakes Communities to Develop Tipping Point Action Plans</p>
4:20	<p><u>N.J. Bryan</u> Habitat characteristics of a unionid refuge in a western Lake Erie thermal plume</p>	<p><u>D.G. Fielder</u> Saginaw Bay Walleye Recovery; Release from Environmental Stressors</p>	<p><u>D. Hu</u> Active and passive sampling methods illuminate dynamics of airborne PCBs based on congener specific analysis of more than 1000 air samples</p>	<p><u>A.T. King</u> Incorporating Point Sources into a 3D Hydrodynamic Model to Examine Plume Fate and Residence Time Scales on the Shallow Shelf of a Large Lake</p>	<p><u>K.M. TePas</u> Development of New Land Use Indicators for SOLEC Assessment</p>
4:40	<p><u>N.T. Schock</u> Habitat conditions and invertebrate communities of Great Lakes coastal wetlands: implications of macrophyte structure changes.</p>	<p><u>J. Schaeffer</u> Are walleye driving prey fish dynamics in Saginaw Bay? <i>Cancelled</i></p>	<p><u>G. Paterson</u> Tissue Distribution of Hg in Yellow Perch During a 1-year Reproductive Cycle</p>	<p><u>J. Zhao</u> Modeling the effects of climate changes on the physical conditions of Lake Winnipeg</p>	<p><u>K.D. Robinson</u> User needs assessment: will they come if we build it?</p>
5:00	<p><u>W.C. Kerfoot</u> Spiny Waterflea (<i>Bythotrephes longimanus</i>) Dispersal And Food Web Impacts</p>			<p><u>X. Bai</u> Modeling 1993-2008 climatology of seasonal general circulation and thermal structure in the Great Lakes using FVCOM</p>	<p><u>M.J. Wiley</u> Land use tipping points in Midwestern streams</p>
5:20	<p><u>F.N. Goodberry</u> The interacting effects of calcium decline and food level on <i>Daphnia</i>.</p>				

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<p>19. New Frontiers of Great Lakes Policy: Where Science and Stakeholders Meet <i>Co-Chairs: Kathleen Williams, Paula Antunes, and Corrina Barrett</i></p>	<p>27. African Great Lakes in Transition <i>Co-Chairs: Randall Hicks, Sergei Katsev, and Stephanie Guildford</i></p>	<p>14. Ecosystem Modeling to Support Decision-Making <i>Co-Chairs: Jennifer Read and Judy Beck</i></p>	<p>30. Large-lake Microbial Ecology <i>Co-Chairs: Stuart Jones, Maureen Coleman, and Ryan Newton</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>K.C. Williams</u> Nurturing a Sense-of-Place: New Pathways for Participation in Great Lakes Areas of Concern</p>	<p><u>R.A. Alani</u> Pattern of persistent, bioaccumulative and toxic (PBT) chemicals signatures across different media in Lagos lagoon</p>	<p><u>Y. Feng</u> Evaluation of Watershed Management Options to Reduce Phosphorus Loading in Sodus Bay Using a Coupled Ecosystem Model</p>	<p><u>D.D. Cloutier</u> Effect of the Indigenous Microbial Community on the Persistence of Fecal Indicators in Lake Michigan Beach Sand</p>	3:40
<p><u>M. Koslow</u> Guiding Restoration in a Changing Great Lakes Climate: Steps and Tools</p>	<p><u>R.E. Hicks</u> Planktonic Archaeal Diversity and Ammonia Oxidizer Abundance Change with Depth in East African Great Lakes Malawi and Kivu</p>	<p><u>G. Perhar</u> Aquatic ecosystem dynamics following oil spill events: A review of the current state of knowledge.</p>	<p><u>D.K. Dila</u> Transient Signatures of Stormwater Runoff in Microbial Communities that Discharge to Nearshore Lake Michigan</p>	4:00
<p><u>G. Epping Overholt</u> The Evolution of an Engaged Citizen Stakeholder Citizen: A Model for Long-term Participation, Life-long Learning and Beneficial Use Impairment Removal.</p>	<p><u>S. Katsev</u> Warming of Lake Kivu</p>	<p><u>E.M. Verhamme</u> From Fishing to Forecasting: The Present and Future of Real-Time Marine Observations in the Great Lakes</p>	<p><u>R.J. Newton</u> The Bacterial Footprint of a City: Views from Lake Michigan Surface Waters</p>	4:20
<p><u>C.H. Barrett</u> Binational Multi-stakeholder Cooperation and Engagement in the Decision Making Process and Remedial Actions for the St. Marys River Area of Concern</p>	<p><u>J.E. Votava</u> Lake Kivu Carbonate Deposition: Abrupt, Recent Onset or Rhythmic Fluctuations?</p>	<p><u>J.V. DePinto</u> Toward Operational Ecosystem Modeling to Support Adaptive Management in the Great Lakes</p>		4:40
<p><u>K.C. Williams</u> SessionWrap-Up Discussion</p>	<p><u>R.E. Hecky</u> Episodic, Anomalous Organic Deposition Events in Lake Kivu: Will the Past Be Repeated?</p>			5:00
<p>Previous Presentation Continued</p>				5:20

	202	206	214CD	218AB	322
	<p>1. Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact <i>Co-Chairs: Alexander Karatayev and Lyubov Burlakova</i></p>	<p>26. Salmonine Sustainability in the Great Lakes <i>Co-Chairs: Michael Jones and Lyob Tsehaye</i></p>	<p>9. Detection, Impacts and Management of Contaminants in the Great Lakes Part 2: Emerging Contaminants <i>Co-Chairs: Laura Kammin, Maria Sepulveda, Bernard Crimmins, and Marta Venier</i></p>	<p>54. Physical Processes in Large Lakes: A Celebration of the Career of David Schwab <i>Co-Chairs: Cary Troy, Dimitry Beletsky, Chin Wu, Ram Yerubandi, and Eric Anderson</i></p>	<p>37. The Re-Eutrophication of Lake Erie: Improving Understanding and Developing a Management Framework <i>Co-Chairs: Douglas Kane, Christopher Winslow, Jeffrey Reutter, Michael Murray, Sue Watson, David Carpenter, and Carol Miller</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
8:00	<p><u>J.A. Southern</u> Monitoring Fish Communities in Western Lake Erie: Collection Efficiencies, Invasives, and Community Dynamics over Time</p>	<p><u>G.J. Jacobs</u> Chinook Salmon Foraging Patterns in a Changing Lake Michigan</p>	<p><u>K.C. Hornbuckle</u> Spatiotemporal commensurability in passive and active sampling for emerging contaminants of concern and legacy toxics in the Great Lakes region</p>	<p><u>E.J. Anderson</u> Modeling the Oscillating Bi-Directional Flow at the Straits of Mackinac</p>	
8:20	<p><u>E.B. Burkett</u> Long-term Impacts of Invasive Round Gobies (<i>Neogobius melanostomus</i>) on Benthic Fish Community and Diet in the St. Clair River, Michigan</p>	<p><u>I. Tsehaye</u> Changes in the salmonine community of Lake Michigan and their implications for predator-prey balance</p>	<p><u>R. Lohmann</u> Using Passive Samplers To Detect PBDEs In Lake Superior</p>	<p><u>P.C. Liu</u> On a Dave Schwab legacy -- the GLERL/Donelan Wave Model</p>	<p><u>J.E. Bonnell</u> Barriers and Incentives to Farmer Adoption of Best Management Practices for Reducing Nutrient Runoff.</p>
8:40	<p><u>H. Pettitt-Wade</u> The Isotopic Niches of Invasive Gobiidae in the Laurentien Great Lakes</p>	<p><u>T.O. Brenden</u> Sensitivity of Chinook Salmon Stock Assessment in Lake Huron to Assumed Wild Recruitment</p>	<p><u>H. Hung</u> Atmospheric PBDEs and Other Flame Retardants at the Canadian Great Lakes Stations of Point Petre and Burnt Island</p>	<p><u>J.D. Anderson</u> Development of a nested wave prediction model for Great Lakes</p>	<p><u>R.S. Wilson</u> Nutrient Loss and Water Quality: A Survey of Farmer Values, Attitudes and Beliefs in the Maumee Watershed</p>
9:00	<p><u>A. Russell</u> The relationship between the round goby and fish communities of Lake Erie tributaries</p>	<p><u>T.O. Brenden</u> Comparison of Chinook Salmon Population Demographics and Fishery Characteristics among Lakes Michigan, Huron, and Ontario Inferred from SCAA Models</p>	<p><u>R.J. Letcher</u> Comparison of Organic Flame Retardants Including Organophosphates in Eggs of European Starlings and Herring Gulls from Sites in the Western-Southern Lake Ontario Region</p>	<p><u>M. Xia</u> Understanding nearshore circulation using a coupled Lake Michigan and Grand Haven nearshore wave-current based model</p>	<p><u>G.E. Howard</u> A Latent Class Analysis of Farmer Preferences Regarding Filter Strip Programs</p>
9:20	BREAK				

214A	214B	218C	314	
<p>49. Understanding, Forecasting, Monitoring and Managing Harmful Algal Blooms in the Great Lakes <i>Co-Chairs: Thomas Johengen, Thomas Bridgeman, and T. Kevin O'Donnell</i></p>	<p>36. Ecosystem Tipping Points: Science and Decision Making <i>Chair: Bryan Pijanowski</i></p>	<p>47. Nearshore/Coastal Conditions and Watershed Connections <i>Co-Chairs: Thomas Neeson, Peter McIntyre, Patrick Doran, Elizabeth Hinchey Malloy, Paul Horvatin, John R. Kelly, and Peder Yurista</i></p>	<p>34. Trophic Tracers in Aquatic Food Webs <i>Co-Chairs: Sergiusz Czesny, Jacques Rinchar, and Austin Happel</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>R.P. Richards</u> Phosphorus Loading and Cyanobacteria Blooms in Western Lake Erie in 2011 and 2012: A Study in Contrasts</p>		<p><u>T.S. Grayson</u> The 2010 National Coastal Condition Assessment: Great Lakes Nearshore Survey Results</p>	<p><u>J. Marty</u> Authochthonous versus allochthonous food sources supporting aquatic food webs: lessons from altered ecosystems.</p>	8:00
<p><u>R.P. Stumpf</u> Inter-annual patterns in cyanobacterial blooms in Lake Erie</p>	<p><u>R.J. Stevenson</u> Relating Coastal Algal Blooms to Rivers, Nutrients, Watershed Land Use, and Storm Events</p>	<p><u>J.E. Barker</u> Using Underwater Video Imaging as an Assessment Tool for Coastal Condition</p>	<p><u>C.D. Fullard</u> Characterizing changes in energy pathways leading to central food web predators resulting from the secondary invasion of the round goby in Saginaw Bay tributaries.</p>	8:20
<p><u>J. Lee</u> Integrated Approach for Quantifying Cyanotoxins at Lake Erie Beaches using Molecular Tools and Satellite Remote Sensing</p>	<p><u>S.L. Martin</u> Land-use legacies and ecosystem tipping points</p>	<p><u>J.R. Kelly</u> Attenuation of Landscape Signals through the Coastal Zone: A Basin-wide Analysis for the US Great Lakes Shoreline, Circa 2002-2010</p>	<p><u>G. Paterson</u> The Nearshore Shunt Hypothesis: A Comparison Between Lake Ontario and Lake Huron Lake Trout</p>	8:40
<p><u>A.B. Burtner</u> A Multi-year Comparison of <i>Microcystis aeruginosa</i> Blooms and Water Quality in Western Lake</p>	<p><u>M. Cai</u> Modeling land and water stress impacts on macroinvertebrates in the Great Lakes coastal wetland</p>	<p><u>P.M. Yurista</u> Monitoring Landscape Influence on Nearshore Condition: Lake Michigan as Part of a Continuing Great Lakes-wide Study</p>	<p><u>S. Czesny</u> Utility of Fatty Acid Signature Analysis in Large Freshwater Food Web</p>	9:00
BREAK				9:20

Thursday, June 6

	202	206	214CD	218AB	322
	<p>1. Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact <i>Co-Chairs: Alexander Karatayev and Lyubov Burlakova</i></p>	<p>26. Salmonine Sustainability in the Great Lakes <i>Co-Chairs: Michael Jones and Iyob Tsehaye</i></p>	<p>9. Detection, Impacts and Management of Contaminants in the Great Lakes Part 2: Emerging Contaminants <i>Co-Chairs: Laura Kammin, Maria Sepulveda, Bernard Crimmins, and Marta Venier</i></p>	<p>54. Physical Processes in Large Lakes: A Celebration of the Career of David Schwab <i>Co-Chairs: Cary Troy, Dmitry Beletsky, Chin Wu, Ram Yerubandi, and Eric Anderson</i></p>	<p>37. The Re-Eutrophication of Lake Erie: Improving Understanding and Developing a Management Framework <i>Co-Chairs: Douglas Kane, Christopher Winslow, Jeffrey Reutter, Michael Murray, Sue Watson, David Carpenter, and Carol Miller</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
9:40	<p><u>A.F. Fischer</u> The Round Goby (<i>Neogobius melanostomus</i>) Affects Microbial Community Composition and Leaf Litter Breakdown in a Lake Erie Tributary Stream</p>	<p><u>R.D. Clark</u> Is our traditional single-lake management approach sufficient to ensure salmonine sustainability in the Great Lakes?</p>	<p><u>A.K. Greaves</u> Organophosphate Flame Retardants are Maternally Transferred <i>In Ovo</i> in Herring Gulls (<i>Larus argentatus</i>)</p>	<p><u>A.J. Bechle</u> Meteorological Tsunamis in the Great Lakes</p>	<p><u>F. Lupi</u> Reviewing the Economic Benefits and Costs of Reducing Harmful Algal Bloom Reduction on Lake Erie</p>
10:00	<p><u>A.R. McLean</u> Catch Me If You Can: Sea Lamprey (<i>Petromyzon marinus</i>) Behaviour at Traps in the St. Marys River</p>	<p><u>M.C. Williams</u> Patterns in the Contribution of Wild Chinook Salmon to Total Chinook Harvest in Lake Michigan</p>	<p><u>Y. Ma</u> Identification and Measurement on Organophosphorus Flame Retardants in Chicago's Atmosphere</p>	<p><u>S. Ahmed</u> Numerical simulations of fundamental internal Poincaré modes in Lake Michigan</p>	<p><u>D.M. Dolan</u> Daily Estimates of Phosphorus to Lake Erie for 2003-2011 with Enhanced Spatial Detail</p>
10:20	<p><u>A. Rous</u> Fine-Scale 3D Movements of Sea Lamprey Immediately Downstream of Traps in the St Marys River</p>	<p><u>B.F. Lantry</u> Relationships Between Sea Lamprey and Preferred and Alternate Hosts in Lake Ontario</p>	<p><u>J. Guo</u> Spatial Distribution and Time Trend of Organic Pollutants in the Sediments of Lake Michigan</p>	<p><u>J.A. Austin</u> Observations of near-inertial energy in Lake Superior</p>	<p><u>D.B. Baker</u> Bioavailable Phosphorus Loading to Lake Erie from the Maumee and Sandusky Watersheds: Trends and Management Implications</p>
10:40	<p>PLENARY SESSION (Loeb Playhouse)</p>				

214A	214B	218C	314	
<p>49. Understanding, Forecasting, Monitoring and Managing Harmful Algal Blooms in the Great Lakes <i>Co-Chairs: Thomas Johengen, Thomas Bridgeman, and T. Kevin O'Donnell</i></p>	<p>36. Ecosystem Tipping Points: Science and Decision Making <i>Chair: Bryan Pijanowski</i></p>	<p>47. Nearshore/Coastal Conditions and Watershed Connections <i>Co-Chairs: Thomas Neeson, Peter McIntyre, Patrick Doran, Elizabeth Hinchey Malloy, Paul Horvatin, John R. Kelly, and Peder Yurista</i></p>	<p>34. Trophic Tracers in Aquatic Food Webs <i>Co-Chairs: Sergiusz Czesny, Jacques Rinchar, and Austin Happel</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>K.A. Perri</u> Harmful Algal Blooms in Sodus Bay, Lake Ontario; A Comparison of Shoreline Use and Cyanobacterial Abundance</p>	<p><u>L. Novitski</u> Using MODIS and Landsat to Infer Chlorophyll in Great Lakes Surface Waters with a Focus on Saginaw Bay</p>	<p><u>J.D. Weller</u> Long-Term Changes to Muskellunge (<i>Esox masquinongy</i>) Nursery Habitat in Georgian Bay, Lake Huron: Implications for Habitat Availability</p>	<p><u>J. Rinchar</u> Lipid Content and Fatty Acid Signatures of Diporeia: Spatio-Temporal Variation in the Great Lakes</p>	9:40
<p><u>D. Palladino</u> Application of Instrumented Moorings for Continuous Monitoring of Water Quality Conditions and Harmful Algal Blooms in Western Lake Erie 2011-2012</p>	<p><u>M. Verhougstraete</u> Microbial Responses to Land, Physical, Chemical, Environmental, and Hydrological Factors</p>	<p><u>R.L. McLaughlin</u> Controversy over Connectivity: Restoration of Migratory Fishes versus Control of Invasive Fishes</p>	<p><u>A.H. Happel</u> Depicting Spatial Heterogeneity through Concomitant Dietary Analyses</p>	10:00
<p><u>T.B. Bridgeman</u> Performance of in situ fluorometry during HABs</p>	<p><u>J. Tyler</u> Changes in Land Use and Urban Development on Salmonid Production in the Muskegon River: A Multi-Modelling Analysis Focused on Chinook and Steelhead.</p>	<p><u>T.M. Neeson</u> Prioritizing in-stream barrier removal in Great Lakes tributaries</p>	<p><u>S.A. Rush</u> Using fatty acids and stable isotopes to describe the Lake Ontario pelagic food web</p>	10:20
PLENARY SESSION (Loeb Playhouse)				10:40

	202	206	214CD	218AB	322
	<p>1. Aquatic Invasive Species: Spread, Population Dynamics and Ecological Impact <i>Co-Chairs: Alexander Karatayev and Lyubov Burlakova</i></p>	<p>23. Artificial Reefs and Reef Restoration in the Great Lakes: Lessons and Legacy <i>Co-Chairs: Matthew McLean, Ed Roseman, Jim Johnson, and J. Ellen Marsden</i></p>	<p>9. Detection, Impacts and Management of Contaminants in the Great Lakes Part 2: Emerging Contaminants <i>Co-Chairs: Laura Kammin, Maria Sepulveda, Bernard Crimmins, and Marta Venier</i></p>	<p>54. Physical Processes in Large Lakes: A Celebration of the Career of David Schwab <i>Co-Chairs: Cary Troy, Dimitry Beletsky, Chin Wu, Ram Yerubandi, and Eric Anderson</i></p>	<p>37. The Re-Eutrophication of Lake Erie: Improving Understanding and Developing a Management Framework <i>Co-Chairs: Douglas Kane, Christopher Winslow, Jeffrey Reutter, Michael Murray, Sue Watson, David Carpenter, and Carol Miller</i></p>
Time	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title
1:40	<p><u>A.K. Baldridge</u> Intraguild predation between spawning smallmouth bass and nest-raiding crayfish (<i>Orconectes rusticus</i>): implications for bass nesting success</p>	<p><u>M.W. McLean</u> Review of Artificial Reefs and Reef Restoration in the Laurentian Great Lakes</p>	<p><u>M.S. Milligan</u> Non-targeted and Targeted Identification of Emerging Contaminants in Great Lakes Fish using GCxGC-TOF Mass Spectrometry</p>	<p><u>L.J. Gloege</u> Modeling the Distribution of Near-Inertial Energy in Lake Superior</p>	<p><u>R.B. Confesor</u> A review of agricultural BMPs in reducing total phosphorus and dissolved reactive phosphorus loads to Lake Erie</p>
2:00	<p><u>L.S. Sorensen</u> Reversible Effects of the Pesticide, TFM, on the Gills of Lampreys and Non-target Lake Sturgeon & Rainbow Trout</p>	<p><u>J.E. Marsden</u> Artificial Reefs as a Restoration Tool in Thunder Bay, Lake Huron</p>	<p><u>B. Crimmins</u> Atmospheric Pressure Gas Chromatography Quadrupole Mass Spectrometry: Emerging Contaminant Screening in Great Lakes Trout</p>	<p><u>J.M. Choi</u> Horizontal shear flow dispersion induced by internal Poincaré waves</p>	<p><u>N.B. Bosch</u> Interacting effects of climate change and agricultural BMPs on nutrient runoff</p>
2:20		<p><u>D.G. Fielder</u> Spawning Reef Restoration in Saginaw Bay, Lake Huron</p>	<p><u>D.C.G. Muir</u> Identifying Persistent and Bioaccumulative Impurities, By-Products and Degradation Products</p>	<p><u>C. Shen</u> One dimensional turbulent mixing model in Lake Michigan with non-breaking wave induced mixing</p>	<p><u>S.P. McElmurry</u> Use of Urban BMPs to Reducing Phosphorus Loads to Lake Erie</p>
2:40		<p><u>B.E. Lenz</u> Lake Sturgeon Spawning Beds in the St. Lawrence River, NY</p>	<p><u>A. Poghosyan</u> Perchlorate in the Great Lakes: distribution, isotopic composition and origin</p>	<p><u>K. Matsumoto</u> A Model Investigation of the Ventilation Time of Lake Superior Using Artificial Dye Tracers</p>	<p><u>D.L. Bade</u> Indicators of Phosphorus Limitation in Nearshore-Offshore Transects in Lake Erie</p>
3:00		<p><u>J.S. Houghton</u> Fish Colonization of an Artificial Reef along Wisconsin's Lake Michigan Coast</p>	<p><u>J.J. Kelly</u> Assessing Effects of a Widely-Used Nanomaterial, Nano-Titanium Dioxide, on Freshwater Microbial Communities</p>	<p><u>S.A. Schweitzer</u> Baroclinic-Forced Mixing and Transport between a Shallow Shelf and the Main Basin of a Large Deep Lake</p>	<p><u>J.M. Majarreis</u> Differentiating Group-Specific Phytoplankton Phosphorus Status Using Nutrient-Induced Fluorescent Transient Variable Responses</p>
3:20	BREAK				

214A	214B	218C	314	
<p>18. Expert Engagement in Great Lakes Research <i>Co-Chairs: Abigail Fusaro, Alisha Davidson, and Patrice Charlebois</i></p>	<p>36. Ecosystem Tipping Points: Science and Decision Making <i>Chair: Bryan Pijanowski</i></p>	<p>47. Nearshore/Coastal Conditions and Watershed Connections <i>Co-Chairs: Thomas Neeson, Peter McIntyre, Patrick Doran, Elizabeth Hinchey Malloy, Paul Horvatin, John R. Kelly, and Peder Yurista</i></p>	<p>28. Appreciating the Paradox: Adding Phytoplankton Back into Aquatic Foodwebs <i>Co-Chairs: Alan Wilson and Henry Vanderploeg</i></p>	
Presented by / Title	Presented by / Title	Presented by / Title	Presented by / Title	Time
<p><u>A.A. Davidson</u> Expert Judgment: Setting the Scene for Use in the Great Lakes Region</p>	<p><u>A.D. Kendall</u> From Landscape Application to the River Mouth: A Fully Explicit Simulation of Nutrient Loads Across Lower Michigan, USA</p>	<p><u>J.F. Bratton</u> A Conceptual Typological Model for Coastal Environments in the Great Lakes</p>	<p><u>M. Munawar</u> The Microbial and Phytoplankton Communities of the Laurentian Great Lakes: Ignored, Understudied and Under-Valued</p>	1:40
<p><u>G.B. Wilson</u> Even the Experts Don't Always Agree: Findings from an EBM Survey</p>	<p><u>E. Rutherford</u> Nutrient Tipping Points for Great Lakes nearshore food webs: an Ecopath with Ecosim analysis</p>	<p><u>P. Chow-Fraser</u> Assessing the trophic status of sheltered embayments in eastern Georgian Bay along a gradient of cottage development and morphometric characteristics</p>	<p><u>H. Nelson</u> A Look at a Method for Automated Plankton Analysis</p>	2:00
<p><u>J.C. Phillips</u> Using Expert Judgments to Evaluate the Prospects for Great Lakes CO₂-driven Acidification</p>	<p><u>J.S. Doucette</u> Tipping Points and Indicators: Supporting Sustainable Communities in Great Lakes States</p>	<p><u>D.R. Taylor</u> Long-term Effects of Impoundment of Georgian Bay Wetlands</p>	<p><u>M.F. Chislock</u> Ecological Stoichiometry and the Control of Harmful Cyanobacterial Blooms: an Empirical Test of a Well-Established Tenet</p>	2:20
<p><u>M. Wittmann</u> Using Structured Expert Judgment to Quantify the Impact of Asian Carp (Bighead and Silver) on Lake Erie Fishes</p>		<p><u>J.S. Sherman</u> Comparing biotic assemblages and abiotic conditions in diked and adjacent open wetlands: a case study in Erie Marsh Preserve</p>	<p><u>B.S. Belisle</u> Is Urea a Driver for <i>Microcystis</i> Blooms in Lake Erie?</p>	2:40
<p><u>S.D.P. Smith</u> Using Expert Judgment to Quantify the Relative Impacts of 50 Environmental Stressors in the Laurentian Great Lakes</p>		<p><u>J.L. Loughner</u> Lake Huron Beach Community and Habitat Assessment</p>	<p><u>M.M. Steffen</u> Comparison of <i>Microcystis</i> bloom metatranscriptomes and variable nitrogen culture transcriptomes to identify factors that drive bloom events</p>	3:00
BREAK				3:20

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3:40		<p><u>G.W. Kennedy</u> Ground Truth and Site Assessment of Model Predicted Fish Spawning Habitat Areas in the St. Clair- Detroit River System</p>	<p><u>J.L. Newsted</u> A toxicological assessment of perfluorooctane sulfonate (PFOS) to avian wildlife in North America: A spatial and temporal evaluation</p>	<p><u>B.K. Grunert</u> Water Clarity and the Thermal Structure of Green Bay</p>	<p><u>J.D. Chaffin</u> Tracking the Unprecedented Lake Erie <i>Microcystis</i> Bloom of 2011 using Denaturing Gradient Gel Electrophoresis</p>
4:00			<p><u>J.K. Leet</u> Environmental Hormones and Their Impacts on Sex Differentiation in Fathead Minnows</p>	<p><u>D.T. Titze</u> Interannual Variability in Lake Superior Thermal Structure (2005-2012) as Observed through an Extensive Mooring Array</p>	<p><u>T. Thompson</u> Hypoxia in a Shallow System: What Causes Low Dissolved Oxygen in the Western Basin of Lake Erie</p>
4:20			<p><u>M.A. Zein</u> Evaluating a novel optical bioassay for measuring sub-lethal toxicity in <i>Daphnia pulex</i></p>	<p><u>J.T. Waples</u> Measuring particle flux in the nearshore: What are sediment traps and radiotracers telling us?</p>	<p><u>D.D. Kane</u> HABS, Hypoxia, and History: The Re-Eutrophication of Lake Erie</p>
4:40				<p><u>C.D. Troy</u> High-resolution, deep-water bottom boundary layer measurements in Lake Michigan</p>	<p><u>S. Watson</u> Nutrient Loadings and Algal Bloom, Hypoxia, and Fish Impacts in Lake Erie: Tackling the Climate Component</p>
5:00					

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<p><u>L. Schmitt Olabisi</u> Participatory Modeling: A Technique for Enhancing Systemic Understanding of Extreme Heat Events and Their Impacts on Human Health</p>		<p><u>T.M. Redder</u> Development, Calibration, and Application of Integrated Modeling Tools for Assessing Current and Future Sedimentation Conditions in Great Lakes River Mouth Systems</p>	<p><u>M.G. Bryan</u> The Implications of Cyanobacteria Blooms on the Base of the Food Web in Lake Winnipeg as Determined by Stable Isotope Analysis</p>	3:40
<p><u>H.L. Elmer</u> Collaborative Learning to Implement Credits and Incentives for Innovative Stormwater Management</p>		<p><u>A. Padilla</u> Evaluating Methods of Establish Effective Surface Water Quality Guidelines for Copper in Coastal Stream Mouths of the Keweenaw Peninsula</p>	<p><u>E.D. Reavie</u> Algal Paleolimnology of the Laurentian Great Lakes</p>	4:00
<p><u>D.C. Bidwell</u> GLISA: Co-Production of Climate Information</p>		<p><u>G. Matisoff</u> Sediment Resuspension in Lake Winnipeg</p> <p style="text-align: center; font-size: 2em; opacity: 0.5;">Cancelled</p>	<p><u>H.A. Vanderploeg</u> There Are No Shortcuts: Phytoplankton Counts Yield Important Information To Understanding Feedbacks Among Grazing, Phytoplankton Composition, and Nutrient Stoichiometry In Natural Systems</p>	4:20
<p><u>T.S. Seilheimer</u> Training and Modification of the Wetland Fish Index to Meet User Needs</p>			<p><u>L. Beecraft</u> Multi-wavelength Spectrally Resolved Fluorometric Assessment (Phyto-PAM) of Photosynthetic Sensitivity to Solar Radiation Stress in Major Phytoplankton Groups</p>	4:40
<p><u>M.M. Ankney</u> Mounting a Response to New Aquatic Invaders</p>			<p><u>A.H. Reid</u> The Impacts of Heterogeneous Phytoplankton Distributions on <i>Daphnia pulex</i> Productivity and Fitness</p>	5:00

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CC: CLIMATE CHANGE

CO: CONTAMINANTS AND AOCs

DM: DATA MANAGEMENT AND MODELING

ED: EDUCATION, POLICY AND OUTREACH

FS: FISH AND FISHERIES

FW: FOOD WEBS AND ECOSYSTEMS

LU: LAND USE AND EUTROPHICATION

NS: NEARSHORE HABITAT AND BEACH HEALTH

PP: PHYSICAL PROCESSES

GC: GENERAL CONTRIBUTIONS

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NS 2	<u>PAINE, A.L.</u> , RITZENTHALER, A.A., KRAMER, E.L., and GRONEWOLD, A.D. Monitoring & analysis of <i>Escherichia coli</i> in the nearshore waters of Lake St. Clair (Session 41)
NS 3	<u>SULLIVAN, D.J.</u> , CORSI, S.R., BALDWIN, A.K., RENEAU, P.C., LENAHER, P.A., PELLERIN, B.A., BORCHARDT, M.A., and SPENCER, S.K. Use of Technology to Support USGS Tributary Monitoring for Great Lakes Restoration Efforts (Session 41)
NS 4	<u>MAITLAND, B.</u> , FARHA, S., ISAACS, N., HAACK, S., DARNTON, R., SMITH, K., and RILEY, S. Is the Invasive Round Goby, <i>Neogobius melanostomus</i> , Facilitating Mass Bird Die-offs Related to Type E Botulism Intoxication? Evidence from Sleeping Bear Dunes National Lakeshore (Session 42)
NS 5	<u>WIJESINGHE, R.U.</u> , OSTER, R.J., FOGARTY, L.R., ISAACS, N., TUCKER, T.R., and RILEY, S. Detection and quantification of type E toxin gene in spp. at Great Lakes beaches (Session 42)
NS 6	MCNAUGHT, A.S. and <u>RASMER, D.R.</u> Identifying Potential Competitors of Wild Rice (<i>Zizania spp.</i>) in Michigan Wetlands (Session 46)
NS 7	<u>WHITE, T.J.</u> The Effects of <i>Phragmites australis</i> Litter Cover on Seed Germination in Great Lakes Coastal Wetlands (Session 46)
NS 8	<u>BALDWIN, A.K.</u> , SULLIVAN, D.J., CORSI, S.R., READ, J.S., SCANLAN, D.P., and LORENZ, D.L. A new network of continuous water-quality sensors to estimate nutrient and pollutant loads in Great Lakes tributaries (Session 47)
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NS 13	<u>MOCKLER, D.R.</u> , AREND, K.K., MOERKE, A.H., STEINHART, G.B., and RIPPLE, P. Determining if tributaries contribute energy and nutrient inputs to lake whitefish in nearshore areas of Whitefish Bay, Lake Superior, MI (Session 47)
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NS 15	<u>STEIN, S.R.</u> , ROSWELL, C.R., GRIMM, E., TROY, C., BOWEN, G., WILSON, A.E., and HÖÖK, T.O. Habitat characterization of southern Lake Michigan river plumes: Implications for fish recruitment (Session 47)
NS 16	<u>CYTERSKI, M.J.</u> , GALVIN, M., WOLFE, K.L., BROOKS, W.R., CORSI, S.R., RODDICK, T., MEDNICK, A.C., and ROCKWELL, D.C. Advanced Decision-Support for Coastal Beach Health: Virtual Beach 3.0 (Session 48)
NS 17	<u>JOHNSON, H.E.</u> , HAACK, S.K., BRENNAN, A.K., and U'REN, S.J. Storm Drains as a Potential Reservoir for Pathogens (Session 48)

NS 18	<u>REA, C.L.</u> , BISESI, M.S., and LEE, J. Wetland Ecoservices Protect Beach Water Quality from Avian-Associated Pathogens and Fecal Contamination in Lake Erie (Session 48)
NS 19	<u>STOKES, Y.F.</u> , WILLIAMS, V.A., and WAGNER, C.A. A Comparison of Case Studies: What Impacts Whether Summer Gull Management Programs can be Effective at Improving Levels of Escherichia coli in 3 Chicago Beaches (Session 48)
NS 20	<u>HIRIART-BAER, V.P.</u> , MOLOT, L., VERSCHOOR, M., and WATSON, S. Long term in situ photosynthetic health assessments provide meaningful insight to phytoplankton community shifts in Hamilton Harbour (Session 49)
NS 21	<u>SAVAGE, M.L.</u> , BOYER, G.L., and WATSON, S.B. Development of Harmful Algal Bloom Indicators for Use in the Great Lakes and Their Application to Lake Neatahwanta, New York (Session 48)
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LU 3	<u>BOLES, C.M.W.</u> and <u>FRANKENBERGER, J.R.</u> Impacts of Tile Drainage on Streamflow and Water Quality Using the New SWAT Drainage Routines (Session 40)
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FW 3	<u>STATON, J.S.</u> , ROSWELL, C.R., HÖÖK, T.O., FIELDER, D.G., THOMAS, M.V., and POTHOVEN, S.A. Evaluating Differences in Condition of Yellow Perch in Saginaw Bay, Lake Huron (1971-2011) (Session 32)
FW 4	<u>ARMENIO, P.M.</u> , WATSON, N.M., DAVIS, B.M., and BUNNELL, D.B. Lake Huron Zooplankton Communities: Any Changes Between 2007 and 2012? (Session 33)
FW 5	<u>LIEBIG, J.R.</u> , VANDERPLOEG, H.A., LANG, G.A., CAVALETTO, J.C., RUTHERFORD, E.S., RUBERG, S.A., and CONSTANT, S.A. Diel Vertical Migration Patterns in Lakes Michigan and Huron Observed at Fine Spatial and Temporal Scales Using the Laser Optical Plankton Counter (Session 33)
FW 6	<u>O'MALLEY, B.P.</u> and BUNNELL, D.B. Seasonal Diet of the Opossum Shrimp, <i>Mysis diluviana</i> , in Lake Michigan Using Stomach Contents (Session 33)
FW 7	<u>OMARA, M.</u> , CRIMMINS, B.S., HOPKE, P.K., CHANG, F.C., and HOLSEN, T.M. Assessment of Food Web Structure, Mercury Bioaccumulation and Trophodynamics in Lake Superior (Session 34)
FW 8	<u>KOSIARA, J.M.</u> , COOPER, M.J., UZARSKI, D.G., and LAMBERTI, G.A. Relationships between community metabolism and fish production in Great Lakes coastal wetlands (Session 35)
FW 9	<u>O'BRIEN, T.P.</u> , IRELAND, S., ROSEMAN, E.F., BRIGGS, A.S., and TAYLOR, W.W. Abundance, distribution, and diversity of pelagic ichthyoplankton in a northern Lake Huron embayment (Session 35)
FS 1	<u>BOUCKAERT, E.B.</u> , AUER, N.A., ROSEMAN, E.R., and BOASE, J.C. Larval lake sturgeon <i>Acipenser fulvescens</i> response near two artificial spawning reefs in the St. Clair-Detroit Rivers System (Session 23)

- FS 2 CREQUE, S.M., DETTMERS, J.M., CZESNY, S.J., and REDMAN, R.A.
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- FS 3 ANDREE, S.R., BLEDSOE, J.W., CRAGUN, A.M., FEINER, Z.S., and HÖÖK, T.O.
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- FS 4 COULTER, D.P., SEPÚLVEDA, M.S., TROY, C.D., and HÖÖK, T.O.
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- FS 5 HAUNERT, N.W. and LAUER, T.E.
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- FS 6 LEADLEY, T.A., JOHNSON, T.B., and DROUILLARD, K.G.
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- AIS 6 MCNAUGHT, A.S., THOMA, S.M., MURRY, B., and JOHNSON, J.
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- AIS 7 OSGA, J.J., HOLBROOK, C.M., and richard, A.H.
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- AIS 8 PIERCE, L.R., WILLEY, J.C., PALSULE, V.P., YEO, J., CRAWFORD, E.L., SHEPHERD, B.S., and STEPIEN, C.A.
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- AIS 10 WATSON, N.M., ARMENIO, P.M., BUNNELL, D.B., DAVIS, B.M., and O'MALLEY, B.P.
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- AIS 12 STRAKOSH, T.R., ANDERSON, K.R., HENSLER, S.R., and CHAPMAN, D.C.
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- AIS 13 JACOBS, A.I. and KELLER, R.P.
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- AIS 14 RAMA, S., BANNO, F., SOUTHERN, J.A., DAVIDSON, A.A., GALA, R.R., GIZICKI, J.P., KASHIAN, D.R., and RAM, J.L.
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- AIS 16 BICKFORD, W.A., KOWALSKI, K.P., GALBRAITH, D.M., and EGGLESTON, M.R.
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- AIS 17 NOMAN, S., MOYERBRAILEAN, G.A., GIZICKI, J.P., RAM, M.L., FUJIMOTO, M., GREEN, P.A., and RAM, J.L.
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- AIS 18 SLOAN, C.M., REED, A.J., SADOWSKY, M.J., and HICKS, R.E.
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- CO 5 ABDEL-MONEIM, A., MAHAPATRA, C., and SEPÚLVEDA, M.S.
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- CO 8 JANTUNEN, L., STRUGER, J., BACKUS, S., KRAFT, J., and HUNG, H.
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- CO 9 KLINKHAMER, C., MAHAPATRA, C.T., and SEPÚLVEDA, M.S.
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- CO 10 MCDONOUGH, C.A. and LOHMANN, R.
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- CO 11 MUIR, D., TEIXEIRA, C., SETT, A., EPP, J., WANG, X., KEIR, M., and BACKUS, S.
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- PP 1 CHERKAUER, K.A., CHEN, W.C., AHMED, S., TROY, C.D., and HÖÖK, T.O.
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- PP 2 MCKINNEY, P.J. and MATSUMOTO, K.
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- PP 3 GAWDE, R.K., VERHAMME, E., AUER, M.T., and DEPINTO, J.V.
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- PP 6 ARIFIN, R.R., DE ALWIS PITTS, D.A., SHARMA, A., JAMES, S.C., FERNANDO, H.J., and SUHARDJO, A.
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 Rutter, M.A.....S13-Tue-8:40
 Saad, D.A.....S40-Mon-8:20
 Sabol, B.....S16-Tue-3:40
 Sadowsky, M.J.PR311 AIS-18 / S5-Tue-4:20 /
 S42-Wed-9:00 / S42-Wed-8:40
 Salamova, A.....S9-Wed-2:40 / S10-Thu-10:00 /
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 Samples, A.....S17-Tue-4:00 / S17-Tue-4:20
 Sanchez, B.C.PR313 CO-15
 Sandgren, C.D.....S33-Tue-2:20
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 Sarnelle, O.....S28-Thu-4:20
 Sassman, S.....S10-Thu-4:00
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 Savage, M.L.PR310 NS-21
 Savolainen, P.T.....S10-Thu-4:20
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 Sayers, M.J.....S16-Tue-2:00 / S32-Wed-9:00 /
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 S16-Tue-2:40 / S16-Tue-4:00 / S16-Tue-5:00
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 Scavia, D.....S37-Thu-2:00 / S1-Wed-2:00 /
 S21-Mon-8:20 / S21-Mon-1:40 / S21-
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 4:40
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 S34-Thu-10:20 / S26-Thu-10:20
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 Schloesser, J.T.....S4-Tue-9:00
 Schmidt, N.C.....S35-Tue-8:00
 Schmitt Olabisi, L.....S18-Thu-3:40
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 S16-Tue-8:40 / S16-Tue-9:00 /
 S16-Tue-2:40 / S16-Tue-4:00 /
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 S5-Tue-4:00
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 Sigler, W.V.PR311 AIS-9 / S37-Thu-3:40
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 Sitar, S.....S24-Mon-1:40 / S25-Wed-9:00
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 Smith, F.....S16-Tue-10:20
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 Smith, S.D.P.....S18-Thu-3:00
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 S12-Mon-4:40
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S32-Wed-1:40 / S13-Tue-9:00 /
S24-Mon-2:00 / S32-Wed-2:00 /
S7-Tue-1:40

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Struger, J.PR313 CO-8

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S10-Thu-2:40

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Su, K.....S10-Thu-8:40

Su, Z.....S13-Tue-8:20

Suedel, B.....S46-Wed-8:40

Suepa, T.....S36-Thu-8:20

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Sullivan, T.J.....24-Mon-8:00 / S25-Wed-10:00

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Szmania, D.N.....S38-Tue-3:40

Taddeo, S.PR310 LU-2

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Tangora, S.....S18-Thu-5:00

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S38-Tue-10:20 / S38-Tue-2:00

Tanner, A.....S16-Tue-10:20

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Tate, M.PR313 CO-3

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S55-Wed-9:40 / S55-Wed-10:00 /
S15-Mon-4:20 / S55-Wed-10:20 /
S36-Wed-4:20

Tepp, W.H.....S42-Wed-9:00

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Thoma, S.M.PR311 AIS-6

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Thomas, M.A.....S31-Mon-2:40 / S31-Mon-9:40 /
S37-Thu-4:20 / S37-Thu-4:00

Thomas, M.V.PR310 FW-3 / S24-Mon-2:40 /
S25-Wed-8:40

Thompson, C.PR313 CO-3

Thompson, P.....S31-Mon-2:40

Thompson, T.....S37-Thu-4:00

Thorn, A.....S21-Mon-8:40

Thorne, P.S.....S9-Wed-3:40

Thupaki, P.....S54-Wed-4:00 / S41-Tue-2:40

Tisue, T.....S12-Mon-10:00

Titze, D.T.....S54-Thu-4:00

Tokos, K.....S54-Thu-2:40

Tomlinson, M.C.....S49-Thu-8:20

Tonellato, P.J.....S41-Tue-10:00

Tong, T.....S10-Thu-3:00

Totten, A.R.PR310 NS-10

Travis, S.E.....S44-Mon-10:00

Trebitz, A.S.....S4-Tue-8:20

Treska, T.....S26-Thu-10:20

Tripp, S.J.....S2-Mon-3:00

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S35-Tue-8:40 / PR310 FS-4 /
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S54-Thu-10:00 / S33-Tue-3:00 /
S16-Tue-4:20 / S54-Thu-4:40 /
S38-Tue-4:20 / S54-Thu-2:20

Tsehaye, I.....S33-Mon-3:40 / S26-Thu-8:20 /
S26-Thu-9:00

Tseng, S.....S49-Thu-8:40

Tucker, A.J.....S4-Tue-2:00

Tucker, T.R.PR310 NS-5 / S48-Tue-4:20

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Turner, C.R.....S29-Mon-8:00

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Turschak, B.A.....S33-Tue-9:40

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Tweddale, T.....S44-Mon-9:00

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S24-Mon-2:00 / S25-Wed-8:20

Unitis, M.J.....S24-Mon-10:00

Urban, N.R.PR313 CO-16 / S12-Mon-10:20

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Uzarski, D.G.PR310 FW8 / PR311 AIS-11 /
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S24-Mon-9:40 / S1-Wed-4:40 /
S35-Tue-8:00 / S31-Mon-4:20 /
S24-Mon-10:00 / S32-Wed-2:20 /
S47-Thu-2:40

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Valenta, T.....S39-Mon-2:20 / S39-Mon-1:40

Van Alstine, J.....S47-Thu-9:00

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Van Maren, B.....S14-Wed-2:00

Van Metre, B.J.....S9-Wed-2:00

Van Metre, P.C.....S11-Tue-8:00 / S38-Tue-5:00
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 VanDeHey, J.A.....S24-Mon-8:20
 Vander Woude, A.J.....S16-Tue-2:20
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 S54-Thu-8:40
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