



## Lake Michigan: State of the Lake '03 *Preliminary Agenda*

October 21-22, 2003

Agenda as of September 19, 2003



Sessions will be held at the Holiday Inn, Muskegon Harbor. Lunches are at the Hilt Building across from the Holiday Inn and the Tuesday evening reception is at the Grand Valley State University Lake Michigan Center. Special features are posters and the annual meeting of the Great Lakes Beach Association (Breakout Session 3).

### October 21, 2003

10:00 am – noon      Plenary Session

#### *Lake Michigan: Watersheds and Cities*

##### **Welcome**

Alan Steinman, GVSU Annis Water Resources Institute  
Janet Vail, U.S. EPA Lake Michigan Forum Co-Chair

##### **Lake Michigan Basin: New Challenges and Opportunities**

Judy Beck, U.S. EPA Lake Michigan Team Manager

##### **Great Lakes Health Recovery Legislation**

Rep. Peter Hoekstra, U.S. House of Representatives

##### **A Marshall Plan for Lake Michigan**

Cameron Davis, Lake Michigan Federation

##### **Great Lakes Restoration Planning: Identifying Regional Priorities**

Mike Donahue, Great Lakes Commission

##### **International Association of Great Lakes and St Lawrence Mayors**

Steve Thorp, Great Lakes Commission

##### Keynote Presentation: **Great Lakes Cities Initiative**

David Ullrich, Great Lakes Cities Initiative

Noon-1:00 pm      Lunch at the Hilt Building

Video: **The Muskegon River Initiative**

1:00 pm - 4:30 pm      Afternoon Concurrent Breakout Sessions

#### Concurrent Breakout Session 1 *Connecting Watersheds to Lake Michigan*

##### **Lake Michigan Academy Regional Workshops Panel**

Jason Navota, Northeastern Illinois Planning Commission; Bill Ward and Jeff Edstrom, The Cadmus Group

**Great Lakes Charter Annex Conflict Resolution Project**

Cheryl Mendoza, Lake Michigan Federation

**Local planning for Sustainable Development in Coastal Michigan**

R.K. Norton and E. A. Brabec, University of Michigan

**Land-Use Effects on Coastal Watersheds**

Ashley Moerke, University of Notre Dame

**Assessing Watershed Stewardship: Connections to the Lake Michigan Basin**

Jane Pater<sup>1</sup>, Troy. Abel<sup>2</sup>, Tim Brown<sup>1</sup>, Ron Baba<sup>2</sup>, and T.J. Holsen<sup>1</sup>, <sup>1</sup>Delta Institute, and <sup>2</sup>University of Wisconsin

**Connecting Watersheds Through Learning: Policy Implications for Watershed Education**

Marguerite Cotto, Northwestern Michigan College Great Lakes Water Studies Institute in collaboration with Michigan State University Institute for Water Studies

**Crystal Lake Case Study**

Stacy L. Daniels, Crystal Lake Watershed Fund, Inc.

**A Model for Empowering Community Environmental Protection: Establishment of the White River Watershed Partnership**

Tanya Cabala, Lake Michigan Federation

**Local Government Tools for Resource Protection**

E. Wendy Ogilvie. Fishbeck, Thompson, Carr & Huber, Inc.

Concurrent Breakout Session 2: ***Lake and Wetlands Biology***

Moderator: Jim Bredin, Office of Great Lakes

**Current Trends in Benthic Macroinvertebrate Populations in Lake Michigan with Emphasis on *Diporeia* (amphipod) and *Dreissena* (zebra and quagga mussel)**

T.F. Nalepa, D.L Fanslow, and S.A. Ruberg, NOAA/Great Lakes Environmental Research Laboratory

***Cercopagis pengoi* and *Bythotrephes longimanus* in Lake Michigan**

R. Pichlova and H.A. Vanderploeg, CILER, U of M/GLERL, NOAA

**Eurasian Ruffe, Round Gobies, and Zebra Mussels: An ‘Exotic Triad’ of Lake Michigan Invaders**

G.A. Lamberti<sup>1</sup>, C.R. Bauer<sup>2</sup>, and M. B. Berg<sup>3</sup>. <sup>1</sup>Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556; <sup>2</sup>U.S. Environmental Protection Agency, Chicago, IL 60604; <sup>3</sup>Department of Biology, Loyola University of Chicago, Chicago, IL.

**Bioindicators for Environmental Risk Assessment: Molecular Markers for Carp (*Cyprinus carpio*) Exposed to Polychlorinated Biphenyls**

Marla A. Fisher, Charles F. Ide, and Jay C. Means Western Michigan University, Great Lakes Center for Environmental and Molecular Sciences

**Microbial Influence on the Carbon Cycle in Southern Lake Michigan**

Bopaiah Biddanda and J. B. Cotner. Annis Water Resources Institute, GVSU

**Development of an Invertebrate Index of Biotic Integrity for Lake Michigan Drowned River Mouth Wetlands**

Tom Burton<sup>1,2</sup>, Don Uzarski<sup>3</sup>, and J. A. Genet<sup>1</sup> Departments of <sup>1</sup>Zoology and <sup>2</sup>Fisheries and Wildlife, Michigan State University, East Lansing, MI; <sup>3</sup>Annis Water Resources Institute, Grand Valley State University, Lake Michigan Center

**Invertebrate Community Composition in Response to Chemical/physical, Land-use/cover, and Vegetation Type within a Lake Michigan Drowned River Mouth Wetland**

Matthew J. Cooper<sup>1</sup>, Donald G. Uzarski<sup>1</sup>, and Thomas M. Burton<sup>2, 3</sup> <sup>1</sup>Annis Water Resources Institute, Grand Valley State University, Lake Michigan Center, Departments of <sup>2</sup>Zoology and <sup>3</sup>Fisheries and Wildlife, Michigan State University

**An Ecological Assessment of the Mona Lake Watershed**

Alan Steinman, R. Rediske, M. Luttenton, D. Uzarski, B. Biddanda, R. Denning, X. Chu, and L. Nemeth. Annis Water Resources Institute, GVSU.

**Muskegon Lake and Estuary Emergent Vegetation and Restoration Demonstration (Wild Rice) Project**

Gary Noble, Muskegon River Watershed Assembly

**Fish Monitoring in Muskegon Lake: Preliminary Results**

Carl. Ruetz, L.C. Nemeth, and B.A. Biddanda, Annis Water Resources Institute, GVSU

[5:00 pm – 7:00 pm Reception and Poster Session](#)

Featuring Lake Michigan and its watershed posters and the Great Lakes Beach Association poster session. The reception and poster session will be held at the GVSU Lake Michigan Center.

**October 22, 2003**

[8:00 - noon Morning Concurrent Breakout Sessions](#)

Concurrent Breakout Session 3	<b><i>Great Lakes Beach Association 3<sup>rd</sup> Annual Meeting</i></b>
8:00 am - 8:15 am	<b>Welcome &amp; Overview</b>
8:15 am - 8:45 am	<b>A National Summary of State Beach Programs under the BEACH Act</b> Charles Kovatch, U.S. Environmental Protection Agency
8:45 am - 9:15 am	<b>Report for U. S. Environmental Protection Agency's Great Lakes Beach Monitoring Program 1998-2002</b> David Rockwell, Great Lakes National Program Office
9:15 am - 9:30 am	Break
9:30 am -10:30 am	<b>Beach Monitoring Updates from the Great Lakes States</b> Coordinator: Shannon Briggs, Michigan Department of Environmental Quality
10:30 am - 11:00 am	<b>Ontario Perspective of Great Lakes Beach Issues</b> Atul Jain, Senior Safe Water Consultant, Ministry of Health and Long-Term Care, Ontario, CA

Hal Leadlay, Science Liaison Officer, Office of the Regional Science Advisor,  
Environment Canada - Ontario Region

11:00 am -11:30 am    **National Epidemiological and Environmental Assessment of Recreational Water Study**  
Alfred P. Dufour<sup>1</sup>, Rebecca L. Calderon<sup>2</sup>, Michael J. Beach<sup>3</sup>, Timothy J. Wade<sup>2</sup>, Elizabeth A. Sams<sup>2</sup>; 1. National Exposure Research Laboratory, Cincinnati, OH; 2. National Health and Environmental Effects Laboratory, Chapel Hill, NC; 3. Centers for Disease Control and Prevention, Atlanta, GA.Epi Studies-NHEERL

11:30 am -noon        Great Lakes Beach Association business

Concurrent Breakout Session 4:    ***Introducing Web-Based Decision Tools for Environmental Management To Lake Michigan Communities***

Objective: Introduce web-based spatial data and tools that can help local officials, resource managers and others in their decision making about watershed projects.

8:00 - 8:15            **Welcome & Remarks**  
Judy Beck, US EPA Region 5, Bill Ward, Cadmus Group

8:15 - 8:30            **Introduction**  
Richard Zdanowicz, US EPA Region 5

The Midwest Spatial Decision Support Systems Partnership, and its web-site located at: <http://www.epa.gov/waterspace/> offer direct access to a series of free web-based environmental planning tools (13 in all) to states and local decisionmakers.

8:30 - 9:00            **Wisconsin User Feedback**  
Dana Lucero, Matthew Murrell, Wisconsin DNR

Wisconsin DNR conducted the first detailed large scale evaluation and user ranking of local government decision support tools in the United States through a workshop held for community planners and planning consultants in Wisconsin.

9:00 – 9:45            **Digital Watershed**  
Jon Bartholic, Yi Shi, Jeremiah Asher, Michigan State University

Digital Watershed is designed to provide both a centralized information repository and an online computing center for watersheds in the United States.

9:45 - 10:00    Break

10:00 – 10:45        **Windows to My Environment**  
Thomas Brody, US EPA Region 5

Windows to My Environment provides a geographic portal, which integrates environmental information by local geography, including interactive mapping tools, data on ambient environmental conditions, and access to analytical reporting tools.

10:45 –11:30        **Long-Term Hydrologic Impact Assessment**  
Bernard Engel, Purdue University

L-THIA, Long-Term Hydrologic Impact Assessment estimates changes in runoff, recharge, and nonpoint source pollution resulting from past or proposed land use changes.

11:30 – 1:45                    **Q & A and Open Discussion**

11:45 - noon                    **Audience feedback & suggestions for next steps**

Concurrent Breakout Session 5                    ***Contaminants in Lake Michigan and its Watersheds***

**Long Term Trends in Lake Michigan Chemistry**

Glenn Warren and Paul Horvatin, United States Environmental Protection Agency, Great Lakes National Program Office

**Lake Michigan Mass Balance Study: Prognosis for PCBs**

Russell G. Kreis Jr., U.S. Environmental Protection Agency

**2002 Proposed LaMP Pollutant Identification Process and Comments**

Sue Brauer, United States Environmental Protection Agency

**Distribution and Fluxes of Combustion and Petroleum Source PAH in Kalamazoo River Sediments Discharging into Lake Michigan**

J.C. Means<sup>1</sup>, K. Kahmark<sup>1</sup>, and G. Meadows,<sup>2</sup>. <sup>1</sup>Western Michigan University, Department of Chemistry and <sup>2</sup>University of Michigan, Department of Naval Architecture and Marine Engineering

**Preliminary Investigation of Sediment Contamination in Muskegon Lake, Michigan**

Richard Rediske<sup>1</sup>, J.G. Gabrosek,<sup>1</sup> C.M. Thompson,<sup>1</sup> and G.C. Carter<sup>2</sup>, <sup>1</sup>Annis Water Research Institute, GVSU, and <sup>2</sup>NOAA/Great Lakes Environmental Research Laboratory

**Internal phosphorus loading in Spring Lake, Michigan**

Alan Steinman. Annis Water Resources Institute, GVSU

**Evidence of Recovery from Phosphorus Enrichment in Lake Michigan**

Richard Barbiero. Computer Services Corporation

**Air Toxics**

Todd Nettesheim, USEPA (to be confirmed)

**Impact of Marine Diesel and Biodiesel Fuels**

Bob Udell Annis, Water Resources Institute, GVSU

**Noon-1:00 pm                    Lunch at the Hilt Building**

Invasive Species essay contest winners

**1:00 pm - 4:30 pm                    Afternoon Concurrent Breakout Sessions**

Concurrent Breakout 6                    ***Data and Information Management***

Moderator: Great Lakes Commission

**Great Lakes Information Network Data Access Metadata Portal**

Stuart Eddy, Great Lakes Commission

**CoastWatch Program Update: Lake Michigan – 2003**

George Leshkevich, and S. Liu, NOAA/Great Lakes Environmental Research Laboratory

**Mega Model for the Muskegon River Watershed**

John Koches, Annis Water Resources Institute, Grand Valley State University

**Application of Advance Informatics for improved Efficiency in Management of Lake Michigan Watersheds – Activities of the Great Lakes Environmental and Molecular Sciences Center (GLEAMS)**

R.W. Edson,, R.A. Shuchman, S. Savage, B.K.S. Piper, E J. Caldwell (Altarum Institute), C. Ide, J. Means, B. Wygant, and K.A. Kahmark (Western Michigan University).

**Lake Michigan Basin Online Atlas**

Stuart Eddy, Great Lakes Commission

**Developing Tools for Assessing the Impacts of Water Withdrawals in the Great Lakes-St. Lawrence Basin**

W.M. Larson, T.M. Redder, and J.V. DePinto, Limno-Tech, Inc. (LTI)

Breakout 7 *Lake Michigan Basin Hydrology and Geology*

**20th Century Changes in the Winter Hydrology of the Lake Michigan Basin: Potential Links to Climate Change**

Erin P. Argyilan, University of Illinois at Chicago - Department of Earth & Environmental Sciences, Steven L. Forman – University of Illinois at Chicago – Department of Earth & Environmental Sciences, Brent M. Lofgren – NOAA/Great Lakes Environmental Research Laboratory

**Watershed Erosion Modeling and Application in the Little Black Creek Basin**

Xuefeng (Michael) Chu, Annis Water Resources Institute, GVSU

**Assessment of Soil Erosion and Sediment Load from Agricultural Cropland in the Great Lakes Basin**

Da Ouyang, Jon Bartholic, James Selegean. Michigan State University

**Effects of Water Levels on Bluff Recession**

Phil Ross, United States Army Corps of Engineers, Detroit, MI.

**Great Lakes Regional Sediment Management**

Phil Ross. United States Army Corps of Engineers, Detroit, MI.

**Spatial and Temporal Variability of the Grand River Plume in Lake Michigan during the Summers of 2001 and 2002**

Peter E. Riemersma, Mark A. Vanderwerp, and Alesha A. Gensler Department of Geology Grand Valley State University

Breakout 8a *Invasive Species Workshop*

1:00 – 2:55 **Aquatic Nuisance Species Update**

Chuck Pistis and Ron Kinnunen, Michigan Sea Grant

- 2:55 – 3:15     **Development of a Rapid Response Plan for Great Lakes Aquatic Invasions**  
Kevin Walters, Great Lakes Commission
- 3:15 - 3:30     Break
- Breakout 8b    ***Connecting Watersheds to Lake Michigan: What is Next?***
- 3:30 - 3:50     **Great Lakes Education for Understanding and Action: Connect, Explore, Investigate**  
Stephanie Smith and Jamie Morton, Lake Michigan Federation
- 3:50 - 4:00     **Healthy Watersheds – Our Responsibility; Our Legacy**  
Fred E. Cowles, P.E., Michigan Water Environment Association - Watershed Management  
Committee and Fishbeck Thompson Carr & Huber
- 4:00 - 4:20     Video Reprise: **The Muskegon River Initiative**