



# The Fourth Biennial Conference of the Lake Erie Millennium Network (2006) – Presentations

Feb 28<sup>th</sup>- Mar 2<sup>nd</sup>, 2006, University of Windsor, Windsor, Ontario

This document contains a list of the presentations made during the 4<sup>th</sup> Biennial Conference of the Lake Erie Millennium network (sorted by date and time). The conference was co-convened by the University of Windsor Great Lakes Institute for Environmental Research, the National Water Research Institute, the Ohio Sea Grant - F.T. Stone Laboratory of Ohio State University, and the Large Lakes Research Station, US EPA of Grosse Ile.

Click on the [Presentation](#) Links to download PDF copies of the presentation slides.

For more information on the LEMN conference and workshop series, please visit the Lake Erie Millennium Network website: <http://www.lemn.org>

## Tuesday 28 February

**Research Needs #1 & #4** - Factors regulating the trophic status of Lake Erie: nutrients, food web components; summary findings of the Lake Erie Trophic Status collaborative project

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|-------------|--|------------------------------|
| <b>0840</b> | <b>DAVID C. ROCKWELL</b> et al. Phosphorus loads to Lake Erie, dissolved oxygen depletion rates and Lake Erie's changing chemical make up before and after the dreissenid impact. What have we learned since 2001? | <a href="#">Presentation</a> |
| <b>0900</b> | <b>R. PETER RICHARDS</b> & D.B. Baker. Reversal of declining nutrient trends in Lake Erie tributaries.   | <a href="#">Presentation</a> |
| <b>0915</b> | <b>TIMOTHY J. FEIST</b> . Using a historical eutrophication model to evaluate present causes of Lake Erie water quality changes.   | <a href="#">Presentation</a> |
| <b>0930</b> | <b>RAM R. YERUBANDI</b> et al. Water currents and temperature in Lake Erie during 2004 & 2005.   | <a href="#">Presentation</a> |
| <b>0945</b> | <b>RALPH SMITH</b> et al. Lake Erie hypoxia simulations with ELCOM-CAEDYM.   | <a href="#">Presentation</a> |
| <b>1015</b> | <b>SCOTT HIGGINS</b> et al. Cladophora update for Lake Erie.   | <a href="#">Presentation</a> |
| <b>1030</b> | <b>DAVID R. BARTON</b> et al. The distribution and abundance of Dreissena spp. in Lake Erie during 2004.   | <a href="#">Presentation</a> |
| <b>1045</b> | <b>STEVEN WILHELM</b> et al. Unmasking the hidden diversity of photosynthetic picoplankton and bacterioplankton in Lake Erie during seasonal hypoxia.  | <a href="#">Presentation</a> |

1100	<b>JOSEPH D. CONROY</b> et al. Seeing is believing - synergy amongst Lake Erie plankton and nutrients, exotic species, and climate change	<a href="#">Presentation</a>
1115	<b>JEFFREY T. TYSON</b> & E. Weimer. Status of the Lake Erie Fish Community, 2006.	<a href="#">Presentation</a>
1130	<b>CYNTHIA PEKARIK</b> . Waterbird populations and contaminant levels in herring gulls in Lake Erie and connecting channels.	<a href="#">Presentation</a>
1145	<b>JAN CIBOROWSKI</b> , G. Matisoff. Changes in Lake Erie Trophic structure: review of the possible explanations & current evidence.	N/A

**Research Need #3** - Habitat Issues in the Lake Erie basin: a habitat classification system, status of habitat zones of the Lake Erie basin; an indicator system for the L. Erie basin.

1310	<b>TOM MCAULEY</b> . Recent IJC use of global climate models for the Great Lakes - St. Lawrence River basin.	<a href="#">Presentation</a>
1330	<b>DAN BUTTON</b> , U.S. Geological Survey. Integrated habitat classification and map of the Lake Erie basin: an overview.	<a href="#">Presentation</a>
1345	<b>LUCA CARGNELLI</b> et al. Development of an indicator suite for the Lake Erie LaMP.	<a href="#">Presentation</a>
1400	<b>LUCINDA B. JOHNSON</b> et al. Quantifying an anthropogenic stressor gradient for the Lake Erie basin.	<a href="#">Presentation</a>
1415	<b>MATTHEW CHILD</b> . A report card approach - Lake Erie's Canadian watershed conditions	<a href="#">Presentation</a>
1430	<b>SCUDDER MACKKEY</b> . Strategies for aquatic habitat classification and restoration in riverine and coastal nearshore systems: application to the Huron-Erie corridor and Lake Erie.	<a href="#">Presentation</a>
1445	<b>EDWARD F. ROSEMAN</b> et al. Assessing Lake Whitefish Spawning and Nursery Habitat in the Detroit River International Wildlife Refuge.	<a href="#">Presentation</a>
1515	<b>JOHN H. HARTIG</b> et al. The Detroit River-western Lake Erie basin indicator project.	<a href="#">Presentation</a>
1530	<b>RIC LAWSON</b> . Mapping and monitoring coastal wetlands in the Lake Erie basin.	N/A
1545	T. Bridgeman & <b>DONALD W. SCHLOESSER</b> . Nearshore/western basin benthic conditions: Hypoxia and mayfly recruitment in western Lake Erie.	<a href="#">Presentation</a>
1600	<b>CHRISTINE GEDDES</b> et al. An ecological classification of open-water habitats in Lake Erie	<a href="#">Presentation</a>

## Wednesday 1 March

**Research Needs #2, #5, & #6** - Biological and chemical contaminants - legacy and emerging issues: status and understanding of persistent chemicals, botulism, microcystin, invaders

**0900 RICHARD GREENWOOD.** Proposed wind energy development in and around Lake Erie: The need to proactively engage for wildlife and habitat. [Presentation](#)

**0915 D. Dempsey & JOHN GANNON.** Lakebed habitat alterations and energy-related activities. [Presentation](#)

**0930 CHRISTOPHER M. PENNUTO.** Effects of the round goby on Lake Erie tributary streams. [Presentation](#)

**0945 CAROL A. STEPIEN & Rex Meade Strange.** A high resolution database for genetic stock structure of walleye and smallmouth bass in Lake Erie. [Presentation](#)

**1000 JON C. CLINE & J.F. Koonce.** Application of a framework for multi-scale analysis of ecological interactions to modeling the effects of cross-scale interactions of stressors on the Lake Erie ecosystem [Presentation](#)

**1030 SAAD Y. JASIM et al.** Presence of pharmaceuticals and pesticides in Detroit River Water and the effect of ozone on removal - a review [Presentation](#)

**1045 CHRIS MARVIN.** Distribution and concentrations of priority pollutants in Lake Erie sediments. [Presentation](#)

**1100 KEN G. DROUILLARD.** Distribution of priority pollutants in the western Lake Erie food web. [Presentation](#)

**International Field Year for Lake Erie (IFYLE):** Progress reports on processes and consequences of biophysical coupling

**1130 STUART LUDSIN et al.** Introduction to the International Field Years on Lake Erie (IFYLE) program [Presentation](#)

**1315 STEVEN A. RUBERG et al.** Real-Time Continuous Observations of Lake Erie Chemical, Biological, and Physical Parameters [Presentation](#)

**1330 DMITRY BELETSKY et al.** Hydrodynamic and phosphorus transport modeling in Lake Erie. [Presentation](#)

**1345 GREGORY L. BOYER et al.** Distribution of cyanobacteria toxicity in Lake Erie: results of the 2005 IFYLE cruises [Presentation](#)

**1400 MICHAEL TWISS et al.** Horizontal characterization of phytoplankton community composition and health [Presentation](#)

1415	<b>RALPH E.H. SMITH</b> et al. Nutrients and photoinhibition as controls on Lake Erie phytoplankton and their fluorescence properties	<a href="#">Presentation</a>
1430	<b>BOB HEATH &amp; T. Meilander.</b> Phosphorus dynamics in Lake Erie bacterioplankton	<a href="#">Presentation</a>
1445	<b>TRACEY MEILANDER</b> et al. Bacterial community structure and activity in Lake Erie.	<a href="#">Presentation</a>
1515	<b>NATHANIEL E. OSTROM</b> et al. Stable isotope signatures of nitrate and phosphate - Potential tools for determining sources and cycling of nutrients in Lake Erie.	<a href="#">Presentation</a>
1530	<b>CHRISTOPHER J. GOBLER</b> et al. Microbial mortality mechanisms (virus lysis and grazing) prior to and during the onset of seasonal hypoxia in the central basin of Lake Erie.	N/A
1545	<b>MARK A. TEECE</b> et al. Temporal changes in fatty acid content of phytoplankton in the central basin of Lake Erie	<a href="#">Presentation</a>
1600	<b>HUNTER CARRICK</b> et al. Seasonal phytoplankton dynamics and hypoxia in the for central basin of Lake Erie	<a href="#">Presentation</a>
1615	<b>PETER J. LAVRENTYEV</b> et al. Microzooplankton distribution and dynamics in Lake Erie during the summer stratification in 2005.	<a href="#">Presentation</a>
1630	<b>STUART LUDSIN</b> et al. Influence of hypoxia on upper trophic levels of central Lake Erie's food web: preliminary observations.	<a href="#">Presentation</a>
1645	<b>MURRAY CHARLTON.</b> Physical, chemical, and biological integrity of Lake Erie - perspectives on historical, current, and new research needs	N/A
1505	<b>JAN CIBOROWSKI.</b> The Lake Erie Millennium Network: a regional node of the Canadian Water Network?	<a href="#">Presentation</a>

## Thursday March 2

0900	<b>STEPHEN B. BRANDT.</b> NOAA's Research needs & opportunities Current status and future directions for the LEMN	N/A
0915	<b>JEFF REUTTER.</b> Activities and plans	<a href="#">Presentation</a>
0930	<b>JAN J.H. CIBOROWSKI.</b> Charge to the conference - Research Needs for the Lake Erie Ecosystem - nearshore vs. open water drivers?	<a href="#">Presentation</a>