THE THIRD BIENNIAL CONFERENCE OF THE LAKE ERIE MILLENNIUM NETWORK

Provisional Program

May 6-7, 2003

Conference Location: Ambassador Auditorium, CAW Student Centre, University of Windsor

Monday 5 May

5:30p.m. Welcome Social and Poster Viewing. Location: CAW Student Centre, Commons Area

Tuesday 6 May

8:30a.m. Opening Remarks - Welcome and introduction-Jan Ciborowski, Co-convenor
Ross Paul, President, University of Windsor
Ashley Scott, Executive Director, Great Lakes Institute for Environmental Research
Rt. Hon. Herb Gray, Co-Chair, Canadian Section, International Joint Commission

9:00a.m. **Review of progress on Research need #1 & #4 - Factors regulating the trophic status of Lake Erie-Gerald Matisoff, Moderator**

9:00	An historical perspective on the expected relationships among changes in dissolved oxygen, total phosphorus, and nitrogen in Lake Erie.	Murray Charlton, NWRI, Environment Canada
9:15	Lake Erie monitoring 1983-2002 and total phosphorus load analysis.	David Rockwell et al., US EPA
9:30	Sediment analyses of historical trends in oxygen depletion and sediment oxygen demand.	Gerald Matisoff et al., Case Western Reserve University
9:45	Regulation of microbial productivity at the base of the Lake Erie food web.	Robert Heath, Kent State University & M. Munawar, Department of Fisheries & Oceans
10:00	Contribution of lower tropic level dynamics, dreissenids, and physical processes to Lake Erie changes.	Joseph Conroy et al., Ohio State University
10:15	Benthic and pelagic microbial assemblages.	Hunter Carrick, Pennsylvania State U. & Nathaniel Ostrom, Michigan State U.
10:30	**Break**	
10:45	The nearshore shunt: ecological engineering in the Great Lakes.	Ralph Smith et al., University of Waterloo
11:00	Trace metal controls over primary productivity in Lake Erie: the role of Fe and Zn as examined using trace metal clean sampling methods.	Michael Twiss, Clarkson University & Mike McKay, Bowling Green State University
11:15	Changes in zoobenthic distribution & relation to trophic status.	Dave Barton et al., University of Waterloo
11:30	Walleye: trophic regulator or victim of change?	Roger Knight et al., Ohio DNR
11:45	Recent changes in Lake Erie trophic status? Summarizing the evidence and possible explanations.	Jan Ciborowski, University of Windsor
12:00	Great Lakes forecasting-Lessons from the EEGLE Project--Web site.	Brian Eadie, NOAA

12:15	Discussion and comments-next steps	
12:30	**LUNCHEON and Poster Viewing**	
1:30	**Research Need #2. Habitat Issues-Donna Myers, Moderator**	
1:30	Report on Great Lakes Climate Change.	Bryan Tugwood & Heather Auld, Environment Canada
1:45	The GLEI Approach to characterizing anthropogenic stress at the Lake Erie coastal margin--Web site.	Nick Danz et al., University of Minnesota
2:00	The roles of flood timing and intensity in regulating nutrient bioavailability, transport, and loadings to Lake Erie.	David Baker & Peter Richards, University of Waterloo
2:15	Substrate mapping and water mass characterization as tools to delineate aquatic habitat.	Hans Biberhofer et al., Environment Canada
2:30	An integrated habitat classification system for the Lake Erie basin: proposal and pilot study opportunities	Donna Myers, USGS & Patricia Chow-Fraser, McMaster University
2:45	Western Lake Erie wildlife refuge.	Lauri Elbing, Congressman Dingell's office
3:00	Discussion & comments-next steps	
3:15	**Break**	
3:30	**Research Need #6. Emerging Issues: reports on botulism; microcystin, pharmaceuticals-Jan Ciborowski, Moderator**	
3:30	Type E botulism in the Great Lakes.	Tonie Rocke et al., USGS, National Wildlife Health Center
3:45	Botulism E-related fish and wildlife die-offs on the southern Great Lakes.	Jeff Robinson, CWS & Bill Culligan, NY Dept. of Enviro. Conservation
4:00	Putative role of fish in the epidemiology of avian botulism in Lake Erie.	Richard D. Moccia et al., University of Guelph
4:15	Re-emergence of Cyanobacteria harmful algal blooms in the Great lakes - The CyanoHABs.	Wayne Carmichael, Wright State University
4:30	Sewage treatment plants as sources of drugs in the Detroit River and western Lake Erie.	Chris Metcalfe & Xiu-Sheng Miao, Trent University
4:50	Discussion & comments-next steps	
5:00	**Overview of research needs and opportunities**	
5:00	Environment Canada's research needs & opportunities	Simon Llewellyn, Environment Canada
5:10	US EPA's Research needs & opportunities	Paul Horvatin, US EPA
5:25	Close for the day	
5:30	**Social and poster viewing**	
	Supper on peoples' own	

Wednesday 7 May

8:30	**Research Need #2. Contaminant Issues - Chris Marvin, Moderator**	
8:30	Sediment contaminant distribution and the sediment quality index.	Chris Marvin, NRRI, Environment Canada
8:45	Evaluating ecosystem results of PCB control measures within the Detroit River-western Lake Erie basin.	John Hartig et al., Greater Detroit American Heritage Rivers Initiative
9:00	The Detroit River as a loadings source of PCBs and Hg to western Lake Erie.	Stan Reitsma, University of Windsor
9:15	Biomonitoring and contaminant trophodynamics in the Detroit River and western Lake Erie.	Ken Drouillard et al., University of Windsor
9:30	Discussion & comments	
9:45	**Break**	
10:00	**Research Need #5 - Invaders - Murray Charlton, Moderator**	
10:00	Role of invaders on habitat function and structure.	Madeline Austen, Environment Canada
10:15	Round gobies increase phosphorus transfer to the pelagic zone of central Lake Erie.	Bo Bunnell et al., Ohio State University
10:30	Update on ballast work, continuing risks and prognosis.	Robert Colautti, et al., University of Windsor
10:45	Discussion & comments-next steps	
11:00	**New directions and next steps: integration and needs - Jeff Reutter, Moderator**--Presentation	
11:10	Ecosystem forecasting, Great Lakes Observing System and IFYGL-2 GLOSI-IOOS Web site).	Steve Brandt, GLERL NOAA
11:25	A Scaleable Architecture For Whats Beyond and Underneath Ecosystem Forecasting.	Keith Bedford, Ohio State University
11:40	Adding the 'Ecosystem' to the Great Lakes Observation and Ecosystem Forecasting System.	Joe DePinto, Limno-Tech, Inc.
11:55	Charge to researchers and collaborators. Final comments	
12:00	Formal Conference close	
12:00 - 2:00	**Lake Erie Research Synthesis and Needs-Linking land and the water**	
	Working lunch in breakout groups	
	How do pressures from the land regulate timing and degree of loadings of nutrients and sediment, ultimately affecting primary and secondary production, and the distribution of benthic organisms?	
	How do pressures from the water (water level, erosion, temperature inversions, colonizers) regulate the character and health of shoreline margin features and the biota that occur there?	
12:00-1:30	Breakout discussion by group	
1:30	**Reporting out & opportunities-Jan Ciborowski, Moderator**	
2:00	Workshop ends	