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## Program

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### Wednesday, October 11<sup>th</sup>

8:45-9:00      *Opening Ceremony & Registration*

**Session 1:      Geology, Physical Limnology, Hydrology and Climate.**  
**(Chair: W. Schertzer)**

9:00-9:15      Evolution of lakes in the Huron basin: deglaciation to present  
Lewis, C.F.M., Blasco, S.M., Karrow, P.F., McCarthy, F.M.G., King,  
J.W., Moore Jr., T.C., & Rea, D.K.

9:15-9:30      The Late Quaternary oxygen isotope composition of Lake Huron  
MacDonald, R.A., & Longstaffe, F.J.

9:30-9:45      Overview of Lake Huron system climatology, interlake exchange and  
mean circulation  
Schertzer, W.M., Assel, R.A., Beletsky, D., Croley, T.E.-li, Lofgren,  
B.M., Saylor, J.H., & Schwab, D.J.

9:45-10:00      Circulation of outer Saginaw Bay  
McMormick, M.J., & SCHWAB, D.J.

10:00-10:30      **Break**

10:30-10:45      Coastal physical limnology of Lake Huron  
Murthy, R.C., & Rowsell, R.D.

10:45-11:00      Modelling of circulation and thermal structure in Lake Huron and  
Georgian Bay  
Yerubandi, R.R., & Sheng, J.

11:00-11:15      The ups and downs of Lake Huron: making sense of water level changes  
Moulton, R. J.

11:15-11:30      Warmer and drier climates that make Lake Huron into a terminal lake  
Croley, T.E., & Lewis, C.F.M.

11:30-11:45      Response of vegetation communities in three Lake Huron fens to  
historical water level fluctuations  
Mortsch, L.D., Sabila, G., & Deadman, P.

11:45-12:00      Groundwater-lake interaction along beaches of Lake Huron  
Crowe, A.S. & Meek, G.A.

12:00-12:15 Ecosystem mapping in Fathom Five National Marine Park, Ontario: Integrating biological, geological, and archaeological data to generate lakebed resource basemaps for ecological integrity  
Blasco, S., Parker, S., Travaglini, P., & Truscott, J.

12:15-1:15 **Lunch**

**Session 2: Nearshore water quality concerns and land-lake interactions. (Co-chairs: T. Howell & S. Watson)**

1:15-1:30 Features of nearshore water quality in South Eastern Lake Huron  
Howell, E.T.

1:30-1:45 High resolution sampling of the nearshore with towed instrumentation: linking water quality and ecological condition to land use variables  
Yurista, P.M. & Kelly, J.R.

1:45-2:00 Spatial and temporal variability in the trophic status of nearshore waters across a spectrum of environments along the Georgian Bay coastline  
Diep, N., Benoit, N., Howell, T. & Boyd, D.

2:00-2:15 Trends in tributary water quality in the Lake Huron Basin  
Clerk, S., Todd, A., & Kaltenecker, G.

2:15-2:30 Sediment quality in Canadian Lake Huron tributaries: a screening-level survey  
Burniston, D.A., Kraft, J., Backus, S. & Dove, A.

2:30-2:45 *Escherichia coli* (*E. coli*) in ground water and lake water at beaches on the Southeast shore of Lake Huron  
Milne, J.E., Charlton, M.N. & Crowe, A.S.

2:45-3:00 Characterization of *E. coli* pollution at a beach on southeastern shore of Lake Huron.  
Kon, T., Weir, S., Howell, T., Lee, H. & Trevors, J.

3:00-3:30 **Break**

3:30-3:45 Groundwater as a mechanism for the delivery of *E. coli* to nearshore lake-water along beaches of Lake Huron  
Crowe, A.S., Meek, G.A. & Milne, J.

3:45-4:00 Shore-fouling by benthic algae in South East Lake Huron  
Howell, E.T., Hiriart-Baer, V. & Higgins, S.

- 4:00-4:15      Microcystis and microcystins in Saginaw Bay, Lake Huron  
Fahnenstiel, G., Dyble, J., Millie, D., Tester, P. & Litaker, W.
- 4:15-4:30      Water quality study and management options for Sturgeon Bay  
Schiefer, K., & Mason, G.
- 4:30-4:45      Cyanobacteria blooms in Lake Huron: contrasting patterns among embayments  
Watson, S.B., Howell, T.
- 4:45-5:00      Sediment-related impacts of cage aquaculture on the aquatic ecosystem  
Thorburn, M., Diep, N., Boyd, D. & Nettleton, P.
- 5:00-5:15      Trends in water quality in Severn Sound following reduction in point and non-point phosphorus load  
Sherman, K. & Chiandet, A.
- 5:45-7:15      **Boat Cruise of Georgian Bay**
- 7:30              **Banquet Dinner**  
Guest Talk: “A History of Research on Lake Huron”  
Al Beeton, Senior Emeritus Research Scientist,  
Adjunct Professor at University of Michigan

## Thursday, October 12th, 2006

### **Session 3:      Ecosystems: structure, function, and change.** **(Co-chairs: T. Nalepa & M. Munawar)**

- 8:30-8:45      Long-term trends in nutrients and major ions in the offshore waters of Lake Huron and Georgian Bay  
Vincent, J., Neilson, M.A.T., Richardson, V., & Dove, A.
- 8:45-9:00      Assessing historical vs. contemporary metals contamination in Lake Huron sediments  
Forsythe, K.W., Marvin, C.H., Fleming, I., & Lui, L.M.
- 9:00-9:15      Bacterioplankton and phytoplankton productivity in Lake Huron  
Heath, R.T., & Munawar, M.
- 9:15-9:30      The pelagic foodweb of Lake Huron  
Munawar, M., Munawar, I.F., Fitzpatrick, M. & Niblock, H.
- 9:30-9:45      A comparative assessment of the planktonic food web of nearshore and offshore habitats of Georgian Bay  
Munawar, M., Munawar, I.F., Fitzpatrick, M., Heath, R. & Niblock, H.

- 9:45-10:00      Recent changes in Lake Huron's lower trophic levels  
Balcer, M.D., & Rockwell, D.C
- 10:00-10:30      **Break**
- 10:30-10:45      Assessment of *Mysis relicta* population trends in Lake Huron – 1970s to present  
Bowen, K.B., Johannsson, O.E., Balcer, M.D., Warner D.M, Arts, M.T., & Schaeffer, J.S.
- 10:45-11:00      Recent trends in the benthic macroinvertebrate community of Lake Huron and impacts on lake whitefish diet  
Nalepa, T.F., Pothoven, S.A., & Fanslow, D.L.
- 11:00-11:15      Ecological tracers provide insights into food web change on Lake Huron and its impact on upper trophic level predators  
Hebert, C.E., Weseloh, D.V.C., & Arts, M.T.
- Session 4:      Fishes and fisheries management.**  
**(Co-chairs: Y. Morbey, J. Schaeffer)**
- 11:15-11:30      Fish species diversity in Lake Huron  
Roseman, E.F., Schaeffer, J.S. & Steen, P.
- 11:30-11:45      The rise of introduced fishes and the fall of fish species at risk in Lake Huron: a review  
Mandrak, N.E., & Munawar, M.
- 11:45-12:00      Recent declines in Lake Huron's prey fish biomass; causes and consequences  
Schaeffer, J.S., Roseman, E., & Riley, S.
- 12:00-1:00      **Lunch**  
Guest Talk: "Integrating health and environment"  
Jack Vallentyne, Environmental activist,  
Senior Scientist GLLFS (retired)
- 1:00-1:15      The State of the major predator fish populations in Lake Huron in 2004  
Reid, D.M., Johnson, J.E., Fielder, D., Woldt, A., Ridgway, M., He, J., Ebener, M., Mohr, L.C. & Bence, J.R.
- 1:15-1:30      The fisheries of Lake Huron: past, present and future  
Mohr, L.C., & McLeish, D.A.

- 1:30-1:45 Lake Huron nearshore fish community responses to changes in light transparency and water temperature  
Dobiesz, N.E., & Lester, N.P.
- 1:45-2:00 An evaluation of the relative roles of relief from alewife predation and the effects of an alewife-induced thiamine deficiency on increased lake trout reproduction in Lake Huron  
Fitzsimons, J., Brown, S., & Brown, L.
- 2:00-2:15 The status of lake trout rehabilitation in South Bay, Lake Huron  
Morbey, Y.E., Anderson, D.M., & Henderson, B.A.
- 2:15-2:30 Filling the data gap: lake whitefish index netting in the North Channel  
Carmichael K.
- 2:30-2:45 Response of native fishes to salmonid cage aquaculture in northern Lake Huron  
Johnston, T.A., Whittle, D. M. & Power, M.
- 2:45-3:00 Improved sea lamprey control contributes to achieving management objectives for the fish community in Lake Huron  
Bergstedt, R.A., Christie, G.C., Ebener, M.P., Young, R.J., Morse, T., Fodale, M.F., And Adams, J.V.

3:00-3:30 **Break**

**Session 5: Wildlife populations: status, and trends.**  
(Co-chair: C. Weseloh)

- 3:30-3:45 The effects of environmental contaminants on immunological health of fish-eating birds of the Great Lakes  
Grasman, K.A.
- 3:45-4:00 Distribution and population trends of breeding Colonial Waterbirds in Lake Huron, 1976-2005  
Moore, D., Weseloh, D.V.C., Havelka, T., Pekarik, C., & Cuthbert, F.
- 4:00-4:15 Temporal and spatial trends of contaminants in Herring Gull eggs from Lake Huron, 1974-2005  
Weseloh, D.V.C., Havelka, T., & Pekarik, C.

**Session 6: Habitats: status, stressors, and protection.**  
(Co-chairs: P. Chow-Fraser & G. Mayne)

- 4:15-4:30 Ecological assessment of fish habitat in coastal wetlands of Georgian Bay and the North Channel

Chow-Fraser, P., McNair, S., Wei, A, Seilheimer, T., Kostuk, K. & Croft, M.

4:30-4:45 Lake Huron's ignored wetlands: biodiversity of coastal depressional wetlands

Burton, T.M. & Uzarski, D.G.

4:45-5:00 Fragmentation of Lake Huron's fringing wetlands: impacts of beach grooming on fish and invertebrate communities

Uzarski, D.G., Burton, T.M., Gyekis, K., Cooper, M.J., Kolar, R. & Zbytowski, J.

### **Session 6 continued next day**

6:40 **Dinner (for participants not attending the evening forum)**

#### **Evening Forum (By reservation only)**

5:50-6:00 Welcome and Introduction to the Lake Huron Binational Partnership (J Anderson & J. Schardt)

6:00-6:35 Dinner

#### **Case studies (Mohawk Room)**

6:40-7:00 J. Schardt (Chenau Island Sustainable Economic Plan)

7:00-7:20 R. Deuell (Misery Bay Biodiversity Investment Area).

7:20- 7:40 S. Reid (Huron County: Community Involvement in Water Quality Decision-Making)

7:40-8:00 M. Walters (Assimilative Capacity Studies: Lake Simcoe and Nottawasaga Valley Watersheds)

## **Friday, October 13th, 2006**

### **Session 6 (continued)**

8:00-8:15 Predicting colonization of aquatic vegetation in response to water-level variation in Georgian Bay wetlands

Wei, A. & Chow-Fraser, P.

8:15-8:30 Assessment of the biodiversity and conservation status of Great Lakes islands

Kraus, D.

### **Session 7: Ecosystem management.**

**(Co-chairs: J. Anderson & J. Schardt)**

8:30-8:45 Development of environmental indicators for the U.S. Great Lakes Coastal Region - a summary of applications in Lake Huron

Niemi, G., Axler, R., Brady, V. Danz, N., Hanowski, J., Hollenhorst, T., Host, G., Johnson, L., & Reavie, E.

- 8:45-9:00 Development of environmental indicators and identification of reference conditions in the coastal regions of the US Great Lakes basin using fish and invertebrates  
Johnson, L.B., Ciborowski, J.J.H., Brady, V., Host, G.E., Baghat, Y., Breneman, D., Schuldt, J., & Hrabik, T.
- 9:00-9:15 Innovative approaches for runoff and soil erosion modeling at the “within-field” scale for small agricultural catchments in Ontario’s Lake Huron Basin  
Aspinall, D., & Sweeney, S.J.
- 9:15-9:30 Detailed land-use mapping for enhanced agricultural environmental management in Ontario’s Lake Huron basin  
Aspinall, D., Sweeney, S.J., Birchmore, J., Bihari, D., Craig, M., Parsons, C., Simpson, M., & D. Cooper
- 9:30-9:45 Towards nutrient and microbial loading accountability in Ontario’s rural landscapes in the Lake Huron Basin  
Sweeney, S.J.
- 9:45-10:00 Integrating conservation and sustainable development in eastern Georgian Bay  
Mason, G. & Pollock, R.
- 10:00-10:15 The Georgian Bay Biosphere Reserve: a model for Landscape Governance  
Pollock, R.
- 10:15-10:30 The role of land trusts and community stewardship in ecosystem management  
Cooper, W., & Grieve, A.
- 10:30-10:45 Can we ever hope to achieve a sustainable Great Lakes (Lake Huron) ecosystem without a plan for human populations?  
Schiefer, K.
- 10:45-11:00 **Break**
- 11:00-12:40 **Summary & Panel Discussion**