

Lake Ontario Contaminant Monitoring & Research Workshop

*Planning for the 2008 Cooperative Monitoring Year
- Contaminants Component -*

Sponsored by:

Lake Ontario Lakewide Management Plan (LOLaMP)
IJC Council of Great Lakes Research Managers (CGLRM)
IJC International Air Quality Advisory Board (IAQAB)
Ontario Ministry of the Environment (OMOE)
Walkerton Clean Water Centre (WCWC)

***Grand Island Holiday Inn
Grand Island, New York
March 27 & 28, 2007***

AGENDA

TUESDAY MARCH 27, 2007

11:30-12:30 **LUNCH** - *provided*

12:30-12:40 **WELCOME**
Alan J. Steinberg, Regional Administrator, U.S. EPA Region II

12:40-1:00 **INTRODUCTION: OBJECTIVES OF WORKSHOP**
Mario Del Vicario, USEPA, Region 2, US Co-Chair, LOLaMP Management Committee
Gary Foley, USEPA, Director, National Center for Environmental Research, IAQAB

1:00-1:30 **BACKGROUND: Long Term Contaminant Monitoring Programs**
Convenor: Fred Luckey, USEPA

- i. Environment CanadaVioleta Richardson, EC
- ii. Great Lakes National Program OfficeTodd Nettesheim, USEPA

1:30-2:15 **CONTAMINANTS IN WATER - PRESENTATIONS** (*15 minutes each*)
Convenor: Conrad DeBarros, OMOE

- i. The Presence of Pharmaceuticals, Personal Care Products and Endocrine Disrupting Substances in Great Lakes Water Supply.Saad Jasim, Walkerton CWC
- ii. "Considerations for monitoring and research for legacy and emerging chemical contaminants in nearshore Lake Ontario" Paul Helm, Ontario, OMOE

Contaminants in Water Presentations cont'd

iii. New contaminants in Lake Ontario: siloxanes, perfluoros, organophosphates, halogenated phenolics.....Derek Muir, EC

2:15 – 3:00 **CONTAMINANTS IN WATER – OPEN DISCUSSION**

1. identification of data / information gaps that should be addressed in 2008
2. potential coordination and partners to do so
3. other factors to be considered for the 2008 cooperative monitoring season

3:00 – 3:15 **BREAK**

3:15 – 5:00 **CONTAMINANTS IN OTHER MEDIA (BIOTA, SEDIMENTS, etc.) – PRESENTATIONS (15 minutes each)**

Convenor: Fred Luckey, USEPA

- i. Contaminants in Lake Ontario Sportfish and Young-of-the-Year
.....Wolfgang Scheider, OMOE
- ii. Contaminants in Lake Ontario Herring Gull Eggs, 1974-2005..... Chip Weseloh, EC
- iii. Environment Canada Fish Contaminants Program- New Directions.. Sean Backus, EC
- iv. USEPA–GLNPO Fish Contaminants Monitoring..... Todd Nettesheim, USEPA
- v. Sediment Core Sampling and Contaminant Trends..... Chris Marvin, EC
- vi. International Atmospheric Deposition Network (IADN).....Pierrette Blanchard, EC

5:00 – 5:30 **CONTAMINANTS IN OTHER MEDIA – - OPEN DISCUSSION**

1. identification of data / information gaps that should be addressed in 2008
2. potential coordination and partners to do so
3. other factors to be considered for the 2008 cooperative monitoring season

DINNER – ON YOUR OWN

WEDNESDAY MARCH 28, 2007

7:00 - 8:00 *Continental Breakfast*

8:00 – 9:00 **MICROBIAL CONTAMINANTS AND NUTRIENTS – PRESENTATIONS**
(15 minutes each) **Convenor:** Rimi Kalinauskas, EC

- i. Toxic Cyanobacteria and Harmful Algal Blooms in Lake Ontario
.....Greg Boyer, SUNY, Syracuse
- ii. Lake Ontario Collaborative Study-“Contaminants in Drinking Water – Canadian Studies Laurence Moore, Ontario Clean Water Agency
- iii. Waterborne pathogen and E. coli contaminantsTom Edge, EC
- iv. Nutrient Status of the Coastal Zone of Lake Ontario
.....Joseph Makarewicz, SUNY, Brockport

9:00 – 9:45 **MICROBIAL CONTAMINANTS AND NUTRIENTS – OPEN DISCUSSION**

- 1. identification of data / information gaps that should be addressed in 2008
- 2. potential coordination and partners to do so
- 3. other factors to be considered for the 2008 cooperative monitoring season

9:45-10:00 **BREAK**

10:00-11:00 **ATMOSPHERIC CONTAMINANTS, MONITORING AND RELATED MODELLING – PRESENTATIONS**

Convenor: Fred Luckey, USEPA

- i. Development and Application of LOTOX3 – a mass balance and bioaccumulation model for contaminants in Lake Ontario..... Joseph Atkinson, U. of Buffalo
- ii. Integrating Multimedia Mercury Measurements for the Great Lakes
..... Dave Evers, BDRI and Jon Dettling, GLC
- iii. Contribution of Contaminants to Lake Ontario from Urban Areas
..... Miriam Diamond, University of Toronto
- iv. Development of a Mercury Multi Compartmental Model for Lake Ontario
.....Elsie Sunderland USEPA and John McDonald, IJC

Panel Discussions : Multi Compartmental Modeling Steering Committee and Invited Experts

Convenor: John McDonald, IJC; Secretary, IAQAB

11:00-11:15 **Introductory Remarks** – Gary Foley, USEPA

This session is meant to identify opportunities arising from these discussions and the best means and methods to pursue them. We will review what gaps exist in the available data that could compromise or preclude effective modeling of the behaviour of mercury in the environmental compartment of interest and possible data sharing agreements to fill gaps so identified, particularly those considered at the just completed workshop. This segment of the program will be structured into 4 brief topic areas and open discussion will follow these four elements.

11:15-12:00 **Panel 1 - Atmospheric Transport and Deposition** - Mark Cohen, NOAA; Pierrette Blanchard, EC; Tom Holsen, Clarkson University.

12:00-12:45 **LUNCH** -*provided*

12:45-1:30 **Panel 2 – Cycling of Mercury in the Watershed and Waterbody** - Greg Mierle, OMOE; Brian Branfireun, University of Toronto; Chris Knightes, USEPA; Reed Harris, Tetra Tech, Inc.

1:30 - 2:15 **Panel 3 – Human Exposure and Health Effects** - Elsie Sunderland, USEPA; Sheng-Wei Wang, Robert Wood Johnson Medical School; Sylvie Boucher de Grosbois, University of Quebec at Montreal

2:15 - 3:00 **Panel 4 – Possible Collaborative Mechanisms** - Greg Mierle, OMOE; Jon Dettling, GLC; Dave Evers, BioDiversity Research Institute

3:00 – 4:00 **OTHER ISSUES TO BE ADDRESSED FOR THE 2008 MONITORING YEAR**
Convenor : Fred Luckey, USEPA

Wrap-up – How do we proceed from here?

Next Steps in the coordination cycle: Fred Luckey, USEPA; Rimi Kalinauskas, EC; Gary Foley, USEPA; Elsie Sunderland, USEPA; John McDonald, IJC

4:00 **ADJOURN**