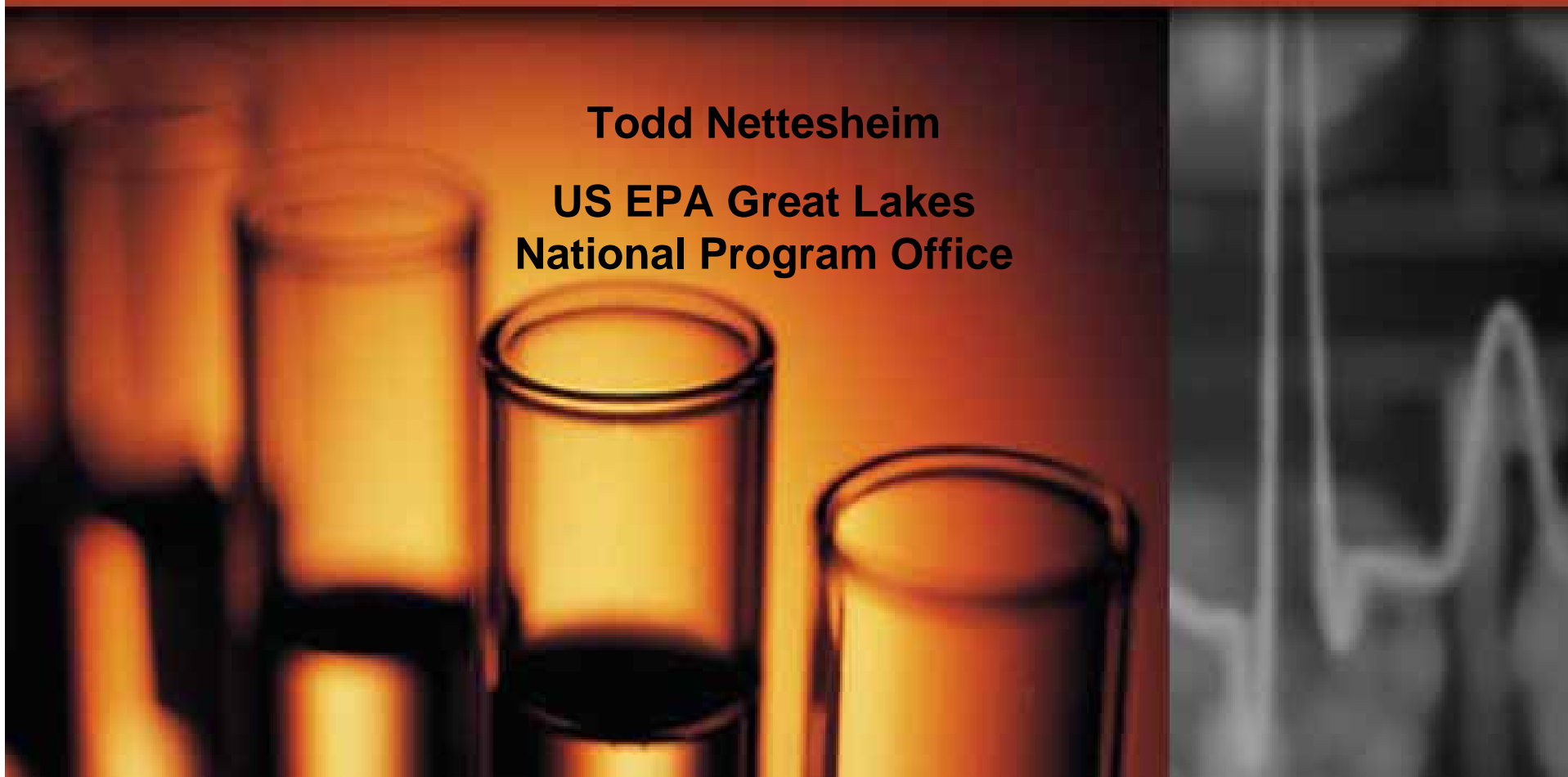


Emerging Contaminant Monitoring and Surveillance in the Great Lakes

Great Lakes Binational Toxics Strategy
Substance and Sector Work Group
December 3, 2008

Todd Nettesheim

**US EPA Great Lakes
National Program Office**



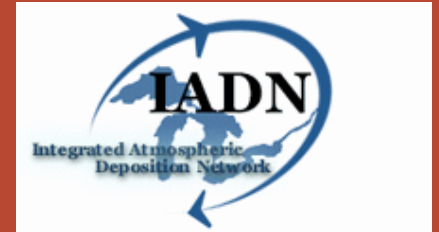
Strategic Surveillance Plan

- **Identify chemicals of concern**
 - Chemicals Management Plan – National in scope
 - Syracuse Research Corporation/Environment Canada North American Chemical Inventory Screening Project
 - External Expert Consultation (SETAC NA & Europe)
 - Etc.
- **Develop Screening protocols**
 - Physical / Chemical Properties
 - Production rates
 - Analyzability
 - Etc.
- **General Categories of Emerging Chemicals**
 - Siloxanes
 - Non Halogenated compounds (Musks, fragrances, etc.)
 - Halogenated compounds (BR, F, Cl, etc.)
 - Other

Monitoring and Surveillance Update

- U.S. EPA Great Lakes Fish Monitoring Program
 - Broad Scan
 - Musks – Aaron Peck, Skidaway
 - 12 new standards
- E.C. Great Lakes Fish Contaminants Monitoring and Surveillance Program
 - Standards for ~50 compounds
- University of Illinois at Chicago
 - Project set to begin in early 2009
- National Rivers and Streams Study
 - pharmaceuticals

Integrated Atmospheric Deposition Network (IADN) Peer Review – Preliminary Results



- IADN is a model for multi-national long-term POPs atmospheric deposition monitoring.
- IADN is an important resource for international POPs agreements (Stockholm, LRTAP, etc.)
- Retain PAHs, all HCHs, and HCB
- Bring in external panel to advise on analytes to add to IADN and other GL monitoring programs
- Once the above list of new candidate analytes is selected, perform an initial monitoring survey at 2-3 sites (most likely include at least one urban site) for 1-2 years