

# BALTIC SEA - GREAT LAKES WORKSHOP ON AQUATIC INVASIVE SPECIES

**APRIL 27-29, 2004**  
**Ann Arbor, Michigan**

**PREFACE:** The *BS-GL Aquatic Invasive Species Workshop* will be preceded by a meeting of the Great Lakes Panel on Aquatic Nuisance Species on April 26 and 27, 2004. Participants in the workshop (see agenda below) are invited to attend the Great Lakes Panel meeting. The Great Lakes Panel will conclude their meeting Tuesday afternoon, April 27.

The *Aquatic Invasive Species Workshop* will convene the afternoon of Tuesday, April 27 and continue through 12:00 p.m. (noon) on Thursday, April 29. After the workshop adjourns, laboratory tours of the Great Lakes Science Center (USGS) and Great Lakes Environmental Research Lab (NOAA) will be conducted on April 29-30. The last tour will finish at or before 12:00 p.m. (noon) on Friday, April 30 providing sufficient time for participants to connect with departing flights.

APRIL 27	SESSION	SPEAKER
3:30 pm	<b>WELCOME AND WORKSHOP INTRODUCTION</b>	<ul style="list-style-type: none"> <li>• Gail Krantzberg, Director Great Lakes Office International Joint Commission</li> <li>• Vacys Saulys, Deputy Director Office of International Activities USEPA-R5</li> <li>• Mike Donahue, President/CEO Great Lakes Commission</li> </ul>
	<b>AIS PROBLEMS OF MUTUAL CONCERN</b>	Facilitator: Kathe Glassner-Shwayder (GLC)
3:50 pm	History of Invasions and Invasion Biology in the Baltic Sea Area	Erkki Leppäkoski (Abo Akademi University, Finland)
4:10 pm	History of Invasions in the Great Lakes	Hugh MacIsaac (University Windsor, Canada)
4:30 pm	Aquatic Invasive Species Studies in Russia	Yury Dgebuadze (Severtsov Institute, Moscow)
4:50 pm	Trans-European Invasion Corridors and Invasion Vectors in the Baltic Sea	Sergej Olenin (Klaipeda University, Lithuania)
5:10 pm	Ecosystem-based Assessment and Management of the Baltic Sea Large Marine Ecosystem	Ken Sherman (NOAA-CMER)

<b>APRIL 27</b>	<b>SESSION</b>	<b>SPEAKER</b>
5:30 pm	<i>Discussion: Opportunities for building inter-regional partnerships to advance cooperation on AIS prevention and control.</i>	Moderator : John Gannon (IJC)
6:00 pm	<b>Adjourn Day 1</b>	
7:00 pm	<i>Reception: Baltic Sea – Great Lakes Partnerships</i>	Co-Hosted by: IJC and USGS-GLSC
-----		
<b>APRIL 28</b>		
8:15 am	<b>AIS PROBLEMS OF MUTUAL CONCERN</b> (cont'd.)	Facilitator: Kathe Glassner-Shwayder (GLC)
8:30 am	Ecological Impacts of Aquatic Invasions in the Baltic Sea	Henn Ojaveer (Estonian Marine Institute)
8:50 am	Ecological and Economic Consequences of the Invasion of the Monogenean Gyrodactylus salaris for the Wild Atlantic Salmon in Norway	Heidi Hansen (Directorate for Nature Management, Norway)
9:10 am	Ecological Impacts: Decline of <i>Diporeia</i> spp. in the Great Lakes and Its Relevance to the Baltic Sea	Tom Nalepa (NOAA-GLERL)
9:30 am	<i>Discussion: Opportunities for building inter-regional partnerships to advance cooperation on AIS prevention and control.</i>	Moderator : Marc Tuchman (USEPA- GLNPO)
10:00 am	<b>Break</b>	
	<b>AIS PREVENTION AND CONTROL</b>	Facilitator: Roger Eberhardt (Great Lakes Panel, MI DEQ)
10:20 am	Ecological Forecasting and Bioeconomic Risk Analysis For Invasive Species	Brian Leung (University of Notre Dame, Indiana)
10:40 am	Risk Assessment of Alien Species and Their Vectors in Fresh and Brackish NE European Waters	Erkki Leppäkoski (Abo Akademi University, Finland)

<b>APRIL 28</b>	<b>SESSION</b>	<b>SPEAKER</b>
11:00 am	Perspectives of the IMO Ballast Water Management Convention and related instruments	Stephan Gollasch (Go-Consult Ltd.)
11:20 am	Aims, Activities and Preliminary Results of the US State Department Funded Project on Aquatic Bio-invasions in the Estonian Waters of the Baltic Sea	Henn Ojaveer (Estonian Marine Institute)
11:40 am	Are NOBOB Vessels an Invasion Risk to the Great Lakes?	Sarah Bailey (University Windsor, Canada)
12:00 pm	<b><i>Discussion: Viable Inter-regional Approaches to AIS Prevention and Control</i></b>	Moderator: Jerrie Nichols (USGS-GLSC)
12:30 pm	<b>Lunch</b>	
	<b>Early Detection and Monitoring Tools: Protocols and Established Programs</b>	Facilitator: Kevin Walters (GLC)
1:30 pm	Characterizing Species Assemblages and Targeted Screening for Invasive Species in the Great Lakes: Genetic and Landscape Ecology Approaches	Mike Blum (USEPA-NERL)
1:50 pm	Predictive Modeling Based on AIS Invasion Risks	Cynthia Kolar (USGS-UMESC)
2:10 pm	Monitoring Tools for AIS in the Great Lakes	Michael Goehle (USFWS)
2:30 pm	The 100 <sup>th</sup> Meridian Initiative	Bob Pittman (USFWS, Western Regional Panel)
2:50 pm	A Rapid Response Plan for Asian Carp in the Chicago Sanitary and Ship Canal and a Regional Perspective on Rapid Response for Great Lakes Aquatic Invasions	Phil Moy (University of Wisconsin – Sea Grant Institute)
3:10 pm	<b><i>Discussion: Opportunities to Cooperate on Effective Protocols and Programs for Detection and Monitoring</i></b>	Moderator: Jaci Savino (USGS-GLSC)
3:40 pm	<b>Break</b>	

<b>APRIL 28</b>	<b>SESSION</b>	<b>SPEAKER</b>
	<b>AIS RESEARCH AND DATA MANAGEMENT</b>	Facilitator: Jon MacDonagh-Dumler (GLC)
4:00 pm	Data Sharing and Scientific Collaboration on AIS in the Baltic Sea Region	Sergej Olenin (Klaipeda University, Lithuania)
4:20 pm	NISbase: A Distributed Database for Aquatic Invasives	Pam Fuller (USGS, Florida Caribbean Science Ctr.)
4:40 pm	Invasive Species: Linking Science, Resource Management and Policy	John Gannon (IJC)
5:00 pm	<i>Discussion: Opportunities for Science and Data Management Partnerships</i>	Moderator : Mike Quigley (NOAA-GLERL)
5:30 pm	<b>Adjourn Day 2</b> (dinner on your own)	
-----		
<b>APRIL 29</b>		
8:15 am	<b>OPPORTUNITIES FOR MULTILATERAL COOPERATION</b>	Facilitator: Jon MacDonagh-Dumler (GLC)
8:30 am	Great Lakes Panel on Aquatic Nuisance Species: A Regional Approach to AIS Prevention and Control	Roger Eberhardt (Great Lakes Panel, MI DEQ)
8:50 am	Managing Alien Species in the Nordic/Baltic Region	Melanie Josefsson (Swedish Environmental Protection Agency)
9:10 am	Macroinvertebrate Introductions into Polish Coastal Waters: Importance of Inland Waterways	Piotr Gruszka (Agricultural University of Szczecin)
9:30 am	Legislative Measures to Decrease Invasion of Aquatic Invasive Species	Rolands Arturs Bebris (Ministry of Environment, Latvia)
9:50 am	Invasive Species Program Challenges in Lithuania	Vilmantas Greiciunas (Ministry of Environment, Lithuania)
10:10 am	<b>Break</b>	

<b>APRIL 29</b>	<b>SESSION</b>	<b>SPEAKER</b>
10:30 am	Alien Invasive Species in Finland	Harry Helmisaari (Finnish Environment Institute)
10:50 am	Aquatic Invasive Species in the Gulf of Riga	Vadims Jermakovs (University Latvia)
11:10 am	<i>Discussion: Mechanisms to Encourage Partnerships in the Science and Management of Invasive Species</i>	Moderator: Jon MacDonagh-Dumler (GLC)
11:40 am	<i>Research, Monitoring, Management and Policy Themes for Baltic Sea – Great Lakes Cooperation on Aquatic Invasive Species</i>	Moderators: - Erkki Leppäkoski - Mike Donahue - Sergej Olenin - John Gannon - Stephan Gollasch - Marc Tuchman
12:30 pm	<b>CONCLUDING REMARKS</b>	<ul style="list-style-type: none"> <li>• USEPA: Vacys Saulys</li> <li>• GLC: Mike Donahue</li> </ul>

Acronyms:

AIS: Aquatic Invasive Species

GLC: Great Lakes Commission, Ann Arbor, Michigan

IJC: International Joint Commission

MI DEQ: Michigan Department of Environmental Quality, Lansing, Michigan

NOAA-CMER: National Atmospheric and Oceanic Administration, Cooperative Marine Education and Research, Woods Hole, Massachusetts

NOAA-GLERL: NOAA, Great Lakes Environmental Research Laboratory, Ann Arbor, Michigan

USEPA: United States Environmental Protection Agency, Chicago, Illinois

USEPA-GLNPO: USEPA, Great Lakes National Program Office, Chicago, Illinois

USEPA-NERL: USEPA, National Exposure Research Laboratory

USEPA-OIA: USEPA, Office of International Activities, Chicago, Illinois

USFWS: United States Fish and Wildlife Service

USGS-GLSC: United States Geological Survey, Great Lakes Science Center, Ann Arbor, Michigan

USGS-UMESC: USGS, Upper Midwest Environmental Sciences Center