

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.

Speaker Presentation Format: Each speaker will prepare a PowerPoint formatted presentation on CD (compact disk) and is allotted 15-20 minutes for their presentation in that session. The session concludes with 30 minutes of group discussion on all of the presentations in that session. Comments will be recorded for later synthesis and decision making at the end of the workshop on April 29.

APRIL 27	SESSION	SPEAKER
3:30 pm	WELCOME AND WORKSHOP INTRODUCTION	<ul style="list-style-type: none"> • Gail Krantzberg (Director, IJC Great Lakes Office) • Vacys Saulys (Dep. Director, USEPA-OIA R5) • Mike Donahue (President/CEO, GLC)
	AIS PROBLEMS OF MUTUAL CONCERN	Facilitator: Kathe Glassner-Shwayder (GLC)
3:50 pm	History of Invasions and Invasion Biology in the Baltic Sea	Sergej Olenin (Klaipeda University, Lithuania)
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	Aquatic Invasive Species in the Great Lakes	John Gannon (IJC)
5:10 pm	Perspectives of the IMO Ballast Water Convention: Implementation in the Baltic Sea Region	Stephan Gollasch (Go-Consult Ltd.)
5:30 pm	Baltic Sea Large Marine Ecosystem Project	Ken Sherman (NOAA-CMER)

APRIL 27	SESSION	SPEAKER
5:50 pm	<i>Discussion: Opportunities for building inter-regional partnerships to advance cooperation on AIS prevention and control.</i>	Moderator : John Gannon (IJC)
6:30 pm	Adjourn Day 1	
7:00 pm	<i>Reception: Baltic Sea – Great Lakes Partnerships</i>	Host: IJC & Commissioners

APRIL 28		
8:15 am	AIS PROBLEMS OF MUTUAL CONCERN (cont'd.)	Facilitator: Kathe Glassner-Shwayder (GLC)
8:30 am	Trans-European Invasion Corridors and Invasion Vectors in the Baltic Sea	Erkki Leppäkoski (Abo Akademi University, Finland)
8:50 am	Ecological Impacts of Aquatic Invasions in the Baltic Sea	Henn Ojaveer (Estonian Marine Institute)
9:10 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)
9:30 am	Ecological Impacts: Decline of Diporeia in the Great Lakes and its relevance to the Baltic Sea	Tom Nalepa (NOAA-GLERL)
9:50 am	<i>Discussion: Opportunities for building inter-regional partnerships to advance cooperation on AIS prevention and control.</i>	Moderator : Marc Tuchman (USEPA- GLNPO)
10:20 am	Break	
	AIS PREVENTION AND CONTROL	Facilitator: Roger Eberhardt (Great Lakes Panel, MI DEQ)
10:40 am	Ecological Forecasting & Bioeconomic Risk Analysis	Brian Leung (University of Notre Dame, Indiana)
11:00 am	Initial Risk Assessment in the Nordic-Baltic Region and Overview of Ongoing Programs	Erkki Leppäkoski (Abo Akademi University, Finland)

APRIL 28	SESSION	SPEAKER
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?	Hugh MacIsaac (University Windsor, Canada)
12:00 pm	<i>Discussion: Viable Inter-regional Approaches to AIS Prevention and Control</i>	Moderator: Jerrie Nichols (USGS-GLSC)
12:30 pm	Lunch	
	Early Detection and Monitoring Tools: Protocols and Established Programs	Facilitator: Roger Eberhardt (Great Lakes Panel, MI DEQ)
1:30 pm	Characterizing Species Assemblages and Targeting Screening for Invasive Species in the Great Lakes: Genetic and Landscape Ecology Approaches	Mike Blum (USEPA-NERL)
1:50 pm	Ecological Forecasting of AIS	Cynthia Kolar (USGS-UMESC)
2:10 pm	AIS Monitoring Tools	Michael Goehle (USFWS)
2:30 pm	100 th Meridian Program	Bob Pittman (USFWS, Western Regional Panel)
2:50 pm	Administrative Perspectives on Rapid Response Planning	Dean Wilkinson (NOAA)
3:10 pm	<i>Discussion: Opportunities to Cooperate on Effective Protocols and Programs for Detection and Monitoring</i>	Moderator: Jaci Savino (USGS-GLSC)
3:40 pm	Break	
	AIS RESEARCH AND DATA MANAGEMENT	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)

APRIL 28	SESSION	SPEAKER
4:20 pm	NIS Base: A Distributed Database for Invasive Species Information	Pam Fuller (USGS, Florida Caribbean Science Ctr.)
4:40 pm	Policy Linkages between Science and Resource Management	John Gannon (IJC)
5:00 pm	<i>Discussion: Opportunities for Science and Data Management Partnerships</i>	Moderator : Mike Quigley (NOAA-GLERL)
5:30 pm	Adjourn Day 2 (dinner on your own)	

APRIL 29		
8:15 am	OPPORTUNITIES FOR MULTILATERAL COOPERATION	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 Invasive Alien Species in the Nordic/Baltic Region: AquAliens, NOBANIS and the European Strategy	Melanie Josefsson (Swedish Environmental Protection Agency)
9:10 am	Legislative Measures to Decrease Invasion of Aquatic Invasive Species	Rolands Arturs Bebris (Ministry of Environment, Latvia)
9:30 am	Invasive Species Program Challenges in the Baltic Region	Vadims Jermakovs (University Latvia) Vilmantas Greiciunas (Ministry of Environment, Lithuania) Harry Helmisaari (Finnish Environment Institute)
9:50 am	<i>Discussion: Mechanisms to Encourage Partnerships in the Science and Management of Invasive Species</i>	Moderator: Jon MacDonagh-Dumler (GLC)
10:20 am	Break	

APRIL 29	SESSION	SPEAKER
10:40 am	<i>DRAFT STATEMENT: Baltic Sea – Great Lakes Cooperation on Aquatic Invasive Species</i>	Moderators: - Mike Donahue - John Gannon - Stephan Gollasch - Sergej Olenin - Vacys Saulys - Marc Tuchman
12:00 pm	CONCLUDING REMARKS	<ul style="list-style-type: none"> • USEPA: Vacys Saulys • GLC: Mike Donahue

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