



Making a Great Lake Superior 2007

Sunday, October 28, 2007

- 12:00 p.m. Pre-registration opens (Holiday Inn Lobby)
- 1:00 p.m. Volunteer Opportunities (meet in Holiday Inn Lobby)
- 1:00 p.m. Kite Making at the Great Lakes Aquarium
Students and staff from Northland College will show you how to make a simple kite from household materials. You'll have time to make your own, then fly it at nearby Bayfront Park. Materials are free and no pre-registration is required.
- 1:30 p.m. St. Louis River Area of Concern Boat Tour and Brunch (meet in Holiday Inn Lobby)
Tour the St. Louis River aboard the Vista Star. Trip leaders will discuss recent and planned remediation efforts within this Area of Concern while participants learn about the Remedial Action Plan (RAP) in this fully-enclosed and climate-controlled vessel.
- 6:30 p.m. Global Warming Solutions Forum (Holiday Inn Lower Level Great Lakes Ballroom)
Polar explorer Will Steger, and Fresh Energy will host a forum on climate change impacts and solutions. Hear from Will Steger, Minnesota's own eyewitness to global warming, about his vivid, firsthand account of the effects of global warming on the polar regions. He will be joined by: Bishop Peter Strommen, who will offer a faith reflection on global warming; Dr. Lucinda Johnson, discussing the effects of climate change on aquatic ecosystems; Fresh Energy's J. Drake Hamilton, who will describe global warming solutions for individuals, businesses, and governments; and Senator Yvonne Prettner Solon.

Monday, October 29, 2007

- 7:30 a.m. Registration (DECC Registration Area) Morning Refreshments (Edmund Fitzgerald Exhibit Hall)
- 8:30 a.m. Plenary Session (Lake Superior Ballroom J)
Drum ceremony, tribal welcome, conference welcome by Herb Bergson, Mayor of Duluth, and Mary Gade, Regional Administrator, U.S. EPA Region 5.
- 9:10 a.m. Resilience: Managing the Greatest Lake in the Face of Change and Uncertainty - Keynote Speaker G. Tracy Mehan III, former U.S. EPA Assistant Administrator for Water and former Director of Michigan's Office of the Great Lakes.
- 10:00 a.m. Break (Edmund Fitzgerald Exhibit Hall) Art Room Open (Split Rock Room)
- 10:30 a.m. Perspectives on Past and Future States of Lake Superior Panel - Moderator - Ken Cullis
Mark Ebener, Inter-Tribal Fisheries and Assessment Program; Dr. Deb Swackhamer, Univ. of Minnesota Institute on the Environment; Dr. Carl Richards, U.S. EPA Mid-Continent Ecology Division.
- 12:10 p.m. Lunch (Lake Superior Ballroom K) Art Room Open (Split Rock Room)
Lunch Panel Introduction - Minnesota Governor Tim Pawlenty
Global Climate Change Panel - Moderator - J. Drake Hamilton, Fresh Energy
Dr. Jay Austin, UMD Large Lakes Observatory; Dr. Richard Stewart, Transportation & Logistics Research Center, Univ. of Wisconsin-Superior; Dr. Lucinda Johnson, Univ. of Minnesota Natural Resources Research Institute; Robert Krumenaker, Superintendent of Apostle Islands National Lakeshore; Will Steger, Polar Explorer.

MONDAY **1:10 - 2:50 p.m.** **Concurrent Breakout Sessions #1**

A - Gooseberry Falls Room 3	B - Ballroom O	C - Ballrooms M & N
<p>GIS, Great Lakes Observing System & Information Mgmt Moderators: Tim Pascoe, Dave Hart, George Host</p>	<p>Sustainability Moderators: Martin Nantel, Bruce Lindgren</p>	<p>Non-Point Source Pollution/Stormwater Runoff Moderators: Nancy Larson, Mindy Granley</p>
<p>1:10 GIS and the Internet: OGC and Interoperability <i>Tom Kralidis, Environment Canada</i></p>	<p>1:10 "Fourth Wave" Economics and a Framework for Sustainability <i>Jerry Hembd, Univ. of Wisconsin-Superior</i></p>	<p>1:10 Long Term Trends in Atmospheric Deposition and the Nitrification of Lake Superior <i>Robert E. Hecky, Univ. of Minnesota Duluth</i> Co-authors: <i>Michael Stainton, Ken Beaty, Doug Guss</i></p>
<p>1:50 Coastal GIS: Delivering Spatial Information for Land Use Planning on Minnesota's North Shore <i>Gerald G. Sjerven, Univ. of Minnesota Natural Resources Research Institute</i> Co-author: <i>George Host</i></p>	<p>1:50 A Sustainability Framework for the Lake Superior Basin <i>Martin Nantel, Environment Canada</i></p>	<p>1:30 The Lake Superior Basin Partner Team's "Guide to Understanding the Hydrologic Condition of Wisconsin's Lake Superior Watersheds" and "Marengo River Watershed Test Case" <i>Sandra Dee Schultz-Nass, Stable Solutions LLC</i></p>
<p>2:10 Environmental Monitoring of Lake Superior Using CoastWatch Data and JAVA GIS <i>George Leshkevich, NOAA/Great Lakes Environmental Research Laboratory</i> Co-author: <i>Songzhi Liu</i></p>	<p>2:20 Using Indicators to Empower Protection of the International Puget Sound and Georgia Basin Ecosystem <i>Sarah Brace, Puget Sound Partnership</i> Co-authors: <i>Gevan Mattu, Heidi Siegelbaum, Michael Rylko</i></p>	<p>1:50 Interactive Web-Based Data Visualization for Discovery and Decision-Making: LakeSuperiorStreams.org <i>Richard Axler, U of MN Natural Resources Research Institute</i> Co-authors: <i>George Host, Norm Will, Cynthia Hagley, Jesse Schomberg, Jerry Henneck, Elaine Ruzycy, Gerry Sjerven, Todd Carlson, Jane Reed, Marnie Lonsdale</i></p>
<p>2:30 Linking Watershed-Scale Stressor Gradient to Nearshore Habitat Types for Setting Restoration Targets <i>George Host, Univ. of Minnesota Natural Resources Research Institute</i> Co-authors: <i>Tom Hollenhorst, Marc Hershfield</i></p>		<p>2:10 Managing Woodlands on Lake Superior's Red Clay Plain <i>Kristin E. Shy, Wisconsin Dept. of Natural Resources</i> Co-author: <i>Carmen Wagner</i></p>
		<p>2:30 Regional Stormwater Protection Team Takes Watershed Approach to Addressing Non-Point Source Pollution in Western Lake Superior Region <i>Kate Kubiak, South St. Louis Soil and Water Conservation District</i> Co-author: <i>Diane Thompson</i></p>

2:50 p.m. Break (Edmund Fitzgerald Exhibit Hall) Art Room Open (Split Rock Room)

3:20 - 5:10 p.m. **Concurrent Breakout Sessions #1 Con't**

<p>3:20 Recent Trends in Great Lakes Research: How Does Lake Superior Stack Up? <i>Stephen A. Bortone, Univ. of Minnesota Sea Grant Program</i> Co-authors: <i>Sharon Moen, Danielle Scheuer</i></p>	<p>3:20 Sustainability SPaRK (Superior Paradigm for Reframing Knowledge) Track Title: Eco-Industrial Development—A Path Toward Sustainability in the Lake Superior Region <i>Timothy M. Nolan, Minnesota Pollution Control Agency</i></p>	<p>3:20 Developing a Storm Water Assessment Program <i>John S. Gulliver, Univ. of Minnesota</i> Co-authors: <i>A.J. Erickson, P.T. Weiss, R.M. Hozalski</i></p>
<p>3:40 Using Internet GIS to Empower Cooperative Management of Invasive Species: www.glifwc-maps.org <i>Miles Falck, Great Lakes Indian Fish and Wildlife Commission</i> Co-author: <i>Dara Olson</i></p>	<p>3:40 The Sustainable Chequamegon Initiative <i>Steve Sandstrom, Alliance for Sustainability</i></p>	<p>3:40 A Blooming Good Time: Building Rain Gardens as Stormwater Education Tools <i>Amber Westerbur, City of Superior, WI Environmental Services Division</i> Co-author: <i>Diane Thompson</i></p>
<p>4:00 Wisconsin's Great Lakes Circle Tour Coastal Access Guide: Using Web Mapping to Support Coastal Cultural Tourism <i>David Hart, Univ. of Wisconsin Sea Grant Institute</i> Co-authors: <i>Matthew Purdy, Jennifer Zeisloft, Sam Johnson, Stephen Ventura</i></p>	<p>4:00 Energy Efficiency, Renewable Energy and Sustainability Efforts of the Bad River Tribe <i>Tom A. Wojciechowski, Univ. of Wisconsin Extension</i></p>	<p>4:00 Sandy Beach Restoration and Community Involvement <i>Marny Chauvin</i> Co-author: <i>Lori Johnson</i></p>
<p>4:20 The Lake Superior GIS: A Habitat-Based Decision Support System for the Great Lakes Basin <i>Christine A. Geddes, Univ. of Michigan Institute for Fisheries Research</i> Co-author: <i>Edward S. Rutherford</i></p>	<p>4:20 Panel Discussion</p>	<p>4:20 Assessing the Impacts of Field Days for Youth <i>Wayne R. Seidel, Univ. of Minnesota Extension and Cook and Lake Counties</i> Co-authors: <i>Barbara W. Liukkonen, Nathan J. Meyer</i></p>
<p>4:40 Discussion Session</p>		<p>4:40 Discussion Session</p>

5:10 p.m. Poster Session and Reception (Edmund Fitzgerald Exhibit Hall) Art Room Open (Split Rock Room)
Reception co-sponsored by UMD Center for Freshwater Research and Policy

6:30 p.m. Photographs from *Minnesota's North Shore* - Craig Blacklock, Photographer - Gooseberry Falls Rooms 1 & 2



	D - Ballroom L	E - Gooseberry Falls Rooms 1 & 2	F - French River Room
	<p>Toxic Pollutants Moderators: Carri Lohse-Hanson, Kate Taillon</p>	<p>Fisheries and Aquatic Ecology Moderators: Tom Pratt, Ron Kinnunen</p>	<p>Water Levels and Withdrawals Moderator: Doug Wilcox</p>
1:10	<p>New and Emerging Chemical Threats to the Lake Superior Ecosystem <i>Matt Hudson, Great Lakes Indian Fish and Wildlife Commission</i></p>	<p>1:10 Lake Superior's Lower Trophic Levels <i>Mary Balcer, Univ. of Wisconsin-Superior</i></p>	<p>1:10 Reconstructing Past Lake Levels in the Lake Superior Basin <i>Todd A. Thompson, Indiana Geological Survey</i></p>
1:30	<p>Endocrine Disrupting Properties of Wastewater Released by a Major Great Lakes Wastewater Treatment Plant <i>Peter W. Sorensen, Univ. of Minnesota Twin Cities</i> Co-authors: Dalma Martinovic, Candice Lavelle</p>	<p>1:30 Nearshore Ecological Interactions in Lake Superior <i>Owen T. Gorman, U.S. Geological Survey</i> Co-authors: Jason D. Stockwell, Daniel L. Yule, Thomas R. Hrabik, Mark P. Ebener, Thomas Pratt</p>	<p>1:40 Water Availability in the Great Lakes Basin <i>Norman G. Grannemann, U.S. Geological Survey</i> Co-author: Howard Reeves</p>
1:50	<p>Monitoring Persistent Bioaccumulative Toxics in National Parks <i>Bill Route, National Park Service</i> Co-authors: Ulf Gafvert, Ted Gostomski</p>	<p>1:50 Ecological Interactions of the Offshore Fish Community in Lake Superior <i>Jason D. Stockwell, Gulf of Maine Research Institute</i> Co-authors: Daniel L. Yule, Thomas R. Hrabik, Michael E. Sierszen, Mary T. Negus, Owen T. Gorman, Donald R. Schreiner, Mark P. Ebener</p>	<p>2:00 Regulation of Lake Superior Outflows <i>Robert J. Caldwell, Environment Canada, Great Lakes-St. Lawrence Region</i> Co-author: Scott J. Thieme</p>
2:10	<p>Methylmercury Production and Incorporation into the Lower Food Web of Contrasting Nearshore Environments of Chequamegon Bay, Wisconsin <i>Jacob Ogorek, Univ. of Wisconsin-LaCrosse</i> Co-authors: Kristofer Rolffhus, Roger Haro, James Wiener</p>	<p>2:10 Nearshore Native Fish Rehabilitation <i>Henry R. Quinlan, U.S. Fish and Wildlife Service</i> Co-authors: Steve Schram, Pat Furlong, Mike Friday, Tom Pratt, Marilee Chase, Bill Mattes, Mike Seider, Casey Huckins</p>	<p>2:30 Water-Level Fluctuations: Driving Force Behind Great Lakes Coastal Wetlands <i>Douglas A. Wilcox, U.S. Geological Survey</i></p>
2:30	<p>The Impact of Long Range Atmospheric Transport from Out-of-Basin Sources of PBTs on the Great Lakes Basin and Implications for Lake Superior <i>Srinivasan Venkatesh, Environment Canada</i> Co-authors: Jianmin Ma, Ashu P. Dastoor, Sunling Gong, Yi-Fan Li, Cindy Yang</p>	<p>2:30 Sea Lamprey in Lake Superior and Their Effects on the Fish Community <i>Mark P. Ebener, Chippewa Ottawa Resource Authority</i> Co-authors: Todd B. Steeves, Chris J. Harvey, Carolyn K. White, Timothy E. Essington</p>	

3:20	<p>Lake Superior Chemical Inventory and Reduction Strategies <i>Carri Lohse-Hanson, Minnesota Pollution Control Agency</i> Co-author: Kate Taillon</p>	<p>3:20 Use of Hydroacoustics as a Tool to Assess Pelagic Prey Fish in Lake Superior <i>Dan. L. Yule, USGS-GLSC Lake Superior Biological Station</i> Coauthors: Thomas Hrabik, Matt Balge, Jason Stockwell, Jared Meyers</p>	<p>3:20 Low Water Levels and the Impact on the Lake Superior Bad River Tribe <i>Leah Gibala, Bad River Tribe</i></p>
3:40	<p>Source Identification and Reduction of Persistent Toxic Pollutants <i>Tim Tuominen, WLSSD</i></p>	<p>3:40 Tribal Involvement in Lake Superior Fisheries <i>Reggie Cadotte, Great Lakes Indian Fish and Wildlife Commission</i></p>	<p>3:40 Lower Lake Levels: Issues in Dredging <i>Richard Stewart, Univ. of Wisconsin-Superior/Great Lakes Maritime Research Institute</i></p>
4:00	<p>Community Based Pollution Prevention Programs: The Road to Sustainability <i>Jim F. Bailey, EcoSuperior Environmental Programs</i></p>	<p>4:00 Fisheries Management Plan for the Minnesota Waters of Lake Superior: A Model for Public Participation in Resource Management <i>Don R. Schreiner, Minnesota Dept. of Natural Resources</i></p>	<p>4:00 International Shipping via the St. Lawrence Seaway and the North American Economy <i>Jerry E. Fruin, Univ. of Minnesota Dept. of Applied Economics</i></p>
4:20	<p>Hi Ho Silver, Heave Ho Quicksilver! <i>Jane Edwards, City of Superior, WI</i></p>	<p>4:20 Understanding the Canadian Species-At-Risk Act <i>Thomas C. Pratt, Fisheries and Oceans Canada</i></p>	<p>4:20 The International Upper Great Lakes Study <i>William Werick</i> Co-author: Anthony J. Eberhardt</p>
4:40	<p>Discussion Session</p>	<p>4:40 Discussion Session</p>	<p>4:40 Discussion Session</p>

Making a Great Lake Superior 2007

Tuesday, October 30, 2007

- 7:30 a.m. Registration (DECC Registration Area) [Morning Refreshments \(Edmund Fitzgerald Exhibit Hall\)](#)
- 8:00 a.m. Announcements, logistics (Lake Superior Ballroom J)
- 8:10 a.m. Plenary Session - Climate Change in Lake Superior - Moderators - Lucinda Johnson and Al Douglas
Keynote Speakers: [Dave Phillips, Senior Meteorologist, Environment Canada](#); [Linda Mortsch, Senior Researcher, Adaptation and Impacts Division of Environment Canada](#); [Dr. Joel Scheraga, National Program Director for the Global Change Research Program in the U.S. Environmental Protection Agency's Office of Research and Development.](#)
- 10:10 a.m. Break (Edmund Fitzgerald Exhibit Hall) [Art Room Open \(Split Rock Room\)](#)

10:30 a.m. - 12:10 p.m.

Concurrent Breakout Sessions #2

A - Gooseberry Falls Room 3	B - Ballroom O	C - Ballrooms M & N
<p>Areas of Concern Moderators: John Marsden, Marc Hershfield, Mark Elster, Matt Doss, Patrick Morash</p>	<p>Watershed Stewardship Moderators: Ron Sundell, Carl Lindquist</p>	<p>Human Health Moderator: Patricia McCann</p>
<p>10:30 Remedial Action Plans for Lake Superior Areas of Concern: Status, Current Issues and Delisting Outlook <i>John Marsden, Environment Canada; Mark Elster, U.S. EPA</i></p>	<p>10:30 Simple Suggestions for Improving Current Great Lakes Programs and Why the Northwest Territories Act of 1787 Still Matters <i>Carl Lindquist, Superior Watershed Partnership</i></p>	<p>10:30 Beach Sanitary Surveys and Beach Monitoring Program <i>Heidi Bauman, Minnesota Pollution Control Agency</i></p>
<p>10:45 Delisting Habitat-Related Beneficial Use Impairments <i>Karen M. Rodriguez, U.S. EPA Great Lakes Co-author: Danielle Green</i></p>	<p>10:50 A View From the Lake: Providing Coastal Communities with a New Perspective on Natural Resource Issues <i>Susan O'Halloran, Univ. of Wisconsin-Superior Co-authors: Cindy Hagley, Jesse Schomberg, Amy Elliot</i></p>	<p>11:00 Identifying Seasonal Sources of <i>Escherichia coli</i> at Beaches in the Duluth-Superior Harbor <i>Dennis L. Hansen, Univ. of Minnesota Duluth Co-authors: Satoshi Ishii, Michael Sadowsky, Randall Hicks</i></p>
<p>11:05 Achieving Integrated Habitat Enhancement Objectives in Lake Superior Areas of Concern <i>Ken Cullis, Ontario MNR</i></p>	<p>11:10 The City of Superior Special Area Management Plan (SAMP): Urban Natural Resource Management <i>Charlene Johnson, SEH, Inc. Co-authors: Jeff Vito, Mary Morgan, Jason Serck</i></p>	<p>11:30 From Reserve Mining to Today: Amphibole Mineral Fiber Issues on the Mesabi Range <i>Hillary M. Carpenter, Minnesota Dept. of Health</i></p>
<p>11:25 Question and Answer Period</p>		
<p>11:30 State of Wisconsin Approach to Review of Restoration Goals and Development of Delisting Criteria for the St. Louis River Area of Concern on Lake Superior <i>John C. Jereczek, Wisconsin Dept. of Natural Resources Co-authors: Mark J. Broses, Duane Lahti, Charlene Johnson, Roy E. Schrameck, Sanjiv K. Sinha</i></p>	<p>11:30 The Need for an Organization to Link and Integrate Education, Research, and Management Activities within the Lake Superior Ecoregion <i>Ronald C. Sundell, Northern Michigan University Co-author: Carl Lindquist</i></p>	
<p>11:45 Application of Michigan's Statewide Delisting Criteria for Removing Beneficial Use Impairments <i>Julie A. Sims, Michigan Dept. of Environmental Quality Co-author: Roger Eberhardt</i></p>	<p>11:50 Developing a Lake Superior Freshwater Estuary Center Through a National Estuarine Research Reserve Designation <i>Becky Sapper, Univ. of Wisconsin Extension Co-authors: Patrick Robinson, Cathy Techtmann, Travis Olson</i></p>	
<p>12:00 Question and Answer Period</p>		

12:10 p.m. **Lunch (Lake Superior Ballroom K)**

Lunch for Teachers (St. Louis River Room)

	D - Ballroom L	E - Gooseberry Falls Rooms 1 & 2	F - French River Room
	Habitat Conservation and Species Management Moderators: Steve Schlobohm, Ann McCammon Soltis, Pat Collins, Marilee Chase	Invasive Species Moderators: Sue Greenwood, Roger Eberhardt, Doug Jensen	Climate Change Moderators: Lucinda Johnson, Al Douglas, Melissa Simon
10:30	Great Lakes Environmental Indicators (GLEI) Project in Lake Superior <i>Gerald J. Niemi, U of MN Natural Resources Research Institute Co-authors: Richard Axler, Valerie Brady, John Brazner, Jan H. Gaborowski, JoAnn Hanowski, George Host, Robert Howe, Lucinda Johnson</i>	10:30 Overview of Non-Native Species Introductions into the Lake Superior Basin, 1883-2006 <i>Douglas A. Jensen, Univ. of Minnesota Sea Grant Program Co-author: Jeffrey L. Gunderson</i>	10:30 Trends and Variability for Ice Cover on Inland Lakes <i>John Magnuson, Univ. of Wisconsin-Madison Co-author: Barbara J. Benson</i>
10:50	Natural History of Coastal Wetlands in the Greater Chequamegon Bay Area <i>James E. Meeker, Northland College</i>	10:50 Economic Impacts of Aquatic Invasive Species <i>Marilyn Katz, U.S. EPA</i>	10:50 Rapid Warming of Lake Superior Surface Waters: The Role of Ice <i>Jay A. Austin, UMD Large Lakes Observatory Co-author: Steven S. Colman</i>
11:10	An Assessment of the Applied Research, Management, and Outreach Needs Associated with Wisconsin's Great Lakes Freshwater Estuaries <i>Patrick Robinson, Univ. of Wisconsin Extension Co-author: Robin Shepard</i>	11:10 Impacts of Aquatic Invasive Species on the Lake Superior Fishery <i>Jeffrey L. Gunderson, Univ. of Minnesota Sea Grant Program</i>	11:10 How Will Climate Change Affect Phytoplankton Photosynthesis in Lake Superior? <i>Stephanie J. Guildford, UMD Large Lakes Observatory Co-authors: Rebecca L. North, David C. Depew, Greg M. Silsbe, Ralph E.H. Smith</i>
11:30	The Hog Island and Newton Creek Ecological Restoration Master Plan: A Template for Restoration in a Lake Superior Area of Concern <i>Keith Bowers, Ivette Bolender, Biohabitats, Inc.</i>	11:30 The Sea Lamprey Migratory Pheromone: Fundamental Science with Practical Consequences <i>Thomas R. Hoye, Univ. of Minnesota Co-author: Peter W. Sorensen</i>	11:30 Effects of Climate Change on Amphibian Communities in Prairie Pothole Wetlands <i>Lucinda B. Johnson, Univ. of Minnesota Duluth Co-authors: Glenn Guntenspergen, Jennifer H. Olker, W. Carter Johnson, Patrick Schoff</i>
11:50	Development of a Lake Superior Basin Herp Monitoring Program <i>Gary S. Casper, Univ. of Wisconsin-Milwaukee Co-authors: Stephen Hecnar, Ashley Spenceley</i>	11:50 Environmental Tolerance Limits of the Diapausing Egg of <i>Bythotrephes longimanus</i> : Implications for Dispersal and Decontamination <i>Donn K. Branstrator, Univ. of Minnesota Duluth Co-authors: Lyle Shannon, Meghan Brown, Marte Thabes</i>	11:50 Thunder Bay: Enhancing and Protecting our Environment <i>Darrell Matson, Sarah Kerton, City of Thunder Bay</i>

TUESDAY			1:10 p.m. - 3:00 p.m.			Concurrent Breakout Sessions #2 Con't		
A - Gooseberry Falls Room 3		B - Ballroom O		C - Ballrooms M & N				
Areas of Concern Moderators: John Marsden, Marc Hershfield, Mark Elster, Matt Doss, Patrick Morash		Watershed Stewardship Moderators: Ron Sundell, Carl Lindquist		Human Health Moderator: Patricia McCann				
1:10	Canada-Ontario Decision Making Framework: Assessment of Great Lakes Contaminated Sites <i>Roger Santiago, Environment Canada</i>	1:10	The Lake Superior Youth Symposium (1995-Present) <i>Joan S. Chadde, Michigan Technological University</i> Co-author: Doug Jones	1:10	Fish Consumption Advisories Topics <i>Patricia McCann, Minnesota Dept. of Health</i>			
1:25	Great Lakes Legacy Act: Program Overview and Status of Lake Superior Projects <i>Scott Ireland, U.S. EPA Great Lakes National Program Office</i> Co-author: Marc Tuchman	1:30	Greatest of the Great Lakes: A Medley of Model Lessons <i>Cynthia A. Hagley, Univ. of Minnesota Sea Grant Program</i> Co-authors: Robin Goettel, Terri Hallesy	1:30	"Eat Fish But Choose Wisely" Outreach to Vulnerable Populations in the Upper Peninsula of Michigan <i>Mike Ripley, Chippewa Ottawa Resource Authority</i> Co-authors: Rick Haverkate, John Dellinger, Jennifer Dale, Gera Simpkins			
1:40	Cleanup of Newton Creek and Hog Island Inlet, A Partnership in Success <i>John H. Robinson, Wisconsin Dept. of Natural Resources</i> Co-authors: Mark Broese, Scott Ireland, James Hosch, Duane Lahti, Nancy Larson	1:50	Preliminary Needs Assessment for the Bad River Watershed Culvert Project <i>Michele C. Wheeler, Bad River Watershed Association</i> Co-author: Dorothy Lagerroos	1:50	Tribal Assessment of PBT Contaminant Concentrations Across Size Ranges of Four Commonly Harvested Lake Superior Fish <i>Matt Hudson, Great Lakes Indian Fish & Wildlife Commission</i>			
1:55	Question and Answer Period	2:10	Restoring the North Shore's Lost Coastal Forest <i>Andrew H. Slade, Sugarloaf: The North Shore Stewardship Association</i>	2:10	Assessing Beach User's Knowledge of Rip Currents in Lake Superior <i>Jesse Schomberg, Univ. of Minnesota Sea Grant Program</i>			
2:00	Thunder Bay AOC Remedial Action Plan (RAP) Public Advisory Committee (PAC) <i>Bob Hartley, Thunder Bay PAC</i>	2:30	Discussion Session	2:30	Discussion Session			
2:10	Public Participation in the St. Marys River Remedial Action Plan <i>Mike Ripley, St. Marys Binational Program Advisory Council</i>							
2:20	Public Involvement and Leadership for the St. Louis River AOC <i>Julene L. Boe, St. Louis River Citizens Action Committee</i> Co-authors: Phil Monson, Ted Smith							
2:30	Panel Discussion							

3:00 p.m. Break (Edmund Fitzgerald Exhibit Hall) Art Room Open (Split Rock Room)
Break sponsored by the Minnesota Pollution Control Agency

3:30 p.m. Facilitated Workgroups
RESEARCH - Gooseberry Falls Rooms 1 & 2 - Moderator - Stephen Bortone, Univ. of Minnesota Sea Grant
K-12 EDUCATION - St. Louis River Room - Moderator - Cindy Hagley, Univ. of Minnesota Sea Grant/COSEE
OUTREACH AND PUBLIC EDUCATION - French River Room - Moderator - E. Marie Wines, U.S. EPA Great Lakes National Program Office
MANAGEMENT - Ballroom O - Moderator - Liz LaPlante, U.S. EPA Great Lakes National Program Office

5:00 p.m. Break (Edmund Fitzgerald Exhibit Hall) Art Room Open (Split Rock Room)
Partner Events
MPCA-Northeast Regional Office's 40th Anniversary Reception - DECC Harborview Atrium
Binational Forum Meeting - Gooseberry Falls Rooms 1 & 2
National Park Service Meeting - French River Room

6:00 p.m. Banquet, Awards Ceremony (Lake Superior Ballroom K)
Introduction - Brad Moore, MPCA Commissioner
Lake Superior: Story and Spirit - Keynote Speakers - John and Ann Mahan, Authors and Photographers

	D - Ballroom L	E - Gooseberry Falls Rooms 1 & 2	F - French River Room
	Habitat Conservation and Species Management Moderators: Steve Schlobohm, Ann McCammon Soltis, Pat Collins, Marilee Chase	Invasive Species Moderators: Sue Greenwood, Roger Eberhardt, Doug Jensen	Climate Change Moderators: Al Douglas, Melissa Simon
1:10	Establishing An Invasive-Free Zone <i>Michael J. Mlynarek, Darienne McNamara, U.S. Fish & Wildlife Service</i>	1:10 The Role of Governments: Changing Policy, Legislation, and Actions to Address Aquatic Invasive Species <i>Roger Eberhardt, Michigan's Office of the Great Lakes</i>	1:10 Not-So-Early Worries About Climate Change <i>Bob Krumenaker, NPS Apostle Islands National Lakeshore</i>
1:30	How MNR, Through the Canada-Ontario Agreement Respecting the Great Lakes Basin Ecosystem, Supports the Lake Superior LaMP <i>Marilee Chase, Ontario Ministry of Natural Resources</i> Co-authors: <i>Barbara Mabee, Dawn Walsh</i>	1:30 Moving to Ballast Treatment: The Great Ships Initiative <i>Allegra Cangelosi, Northeast-Midwest Institute</i> Co-authors: <i>Mary Balcer, Matt TenEyck, Steven Fisher, Nicole Mays</i>	1:40 Assessing Vulnerability and Developing Adaptation Strategies at the Municipal Level <i>Allan Douglas, Laurentian University</i>
1:50	Stream Stewardship: Linking Science With Action <i>Lucie Lavoie, EcoSuperior Environmental Programs</i>	1:50 Successes in Public Education to Prevent the Spread of AIS: Partnerships That Work! <i>Douglas A. Jensen, Univ. of Minnesota Sea Grant Program</i>	2:10 Vessel-Based Climate Change Education: An Example Program <i>Cynthia Hagley, Univ. of Minnesota Sea Grant Program</i> Co-authors: <i>Jesse Schomberg, Sue O-Halloran, Amy Eliot</i>
2:10	Getting the Message Out: Two Efforts to Educate the Public About Current Lake Superior Research and Management Programs <i>Molly A. Thompson, Sugarloaf: The North Shore Stewardship Association</i> Co-author: <i>Andrew Slade</i>	2:10 The Invading Species Awareness Program for Ontario <i>Francine MacDonald, Ontario Federation of Anglers and Hunters</i> Co-author: <i>Beth Brownson</i>	2:30 Discussion Session
2:30	Discussion Session	2:30 Discussion Session	



Making a Great Lake Superior 2007

Wednesday, October 31, 2007

- 7:30 a.m. Registration (DECC Registration Area) Morning Refreshments (Edmund Fitzgerald Exhibit Hall)
- 8:00 a.m. Plenary Session - What Have We Learned and Next Steps (Lake Superior Ballroom J)
Moderator - Dr. Stephen Bortone, Univ. of Minnesota Sea Grant Program
Research - K-12 Education - Outreach and Public Education - Management
- 8:40 a.m. Sustainable Communities: Local Governments Help Protect and Restore the Lake
1. Introduction to the Lake Superior Binational Program and the Lakewide Management Plan - Glen Dale and Bruce Lindgren, Lake Superior Binational Forum
2. Introduction to the Great Lakes and St. Lawrence Cities Initiative - David A. Ullrich, Executive Director, Great Lakes and St. Lawrence Cities Initiative
3. Panel of Local Government Officials - Moderator - David A. Ullrich
Ferdinand Martineau, Tribal Treasurer, Fond Du Lac Band of Lake Superior Chippewa
Lynn Peterson, Mayor, Thunder Bay, Ontario
Dave Ross, Mayor, Superior, Wisconsin
Larry MacDonald, Mayor, Bayfield, Wisconsin
Herb Bergson, Mayor, Duluth, Minnesota
- 10:40 a.m. Break (Edmund Fitzgerald Exhibit Hall) Art Room Open (Split Rock Room)
- 11:00 a.m. Economic Future of the Great Lakes - Keynote Speaker
John Austin, Nonresident Senior Fellow and Director of the Great Lakes Economic Initiative with The Brookings Institution
- 11:50 a.m. Conference Closing - John Marsden, Environment Canada and Liz Laplante, U.S. EPA Great Lakes National Program Office
- 12:00 p.m. Adjourn

Field Trips (Meet in conference registration area)

- 12:30 p.m. Western Lake Superior Sanitary District's Composting Program
- 1:00 p.m. Behind the Scenes at the Great Lakes Aquarium
- 1:00 p.m. South Shore Fisheries Medley
- 1:00 p.m. Innovative Stormwater Management Tour
- 1:00 p.m. Tour the Environmental Protection Agency Lab in Duluth
- 1:00 p.m. St. Louis River Freshwater Estuary Adventure
- 1:00 p.m. Hike the Superior Hiking Trail

Conference Planners

Conference Co-chairs

Janet Keough
Jesse Schomberg
John Marsden
Liz LaPlante

U.S. EPA National Health and Environmental Effects Research Laboratory, Midcontinent Ecology Division
Univ. of Minnesota Sea Grant Program
Environment Canada
U.S. Environmental Protection Agency, Great Lakes National Program Office

Conference Workgroup

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Barb Nicol
Bruce Lindgren
Carl Lindquist
Carri Lohse Hanson
Dave Schnell
E. Marie Wines
Gene Clark
Gina Temple-Rhodes
Janet Keough
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Steve Schlobohm
Tony Kern
Zandra Zwiebel

Great Lakes Indian Fish and Wildlife Commission
Lakehead University
Lake Superior Binational Forum
Superior Watershed Partnership
Minnesota Pollution Control Agency
Lake Superior Binational Forum
U.S. Environmental Protection Agency
Wisconsin Sea Grant
Western Lake Superior Sanitary District
U.S. Environmental Protection Agency
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Environment Canada
Environment Canada
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Univ. of Minnesota Sea Grant Program
U.S. Environmental Protection Agency, Great Lakes National Program Office
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Michigan Dept. of Environmental Quality
Michigan Sea Grant
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Univ. of Minnesota Sea Grant Program
Minnesota Pollution Control Agency
Canada Dept. of Fisheries and Oceans

Poster Display

The following posters will be displayed during the breaks and the Monday reception.

Aquatic Invasive Species

<p>Ruffe Control Program: Past, Present, Future <i>Mark J. Brouder, U.S. Fish and Wildlife Service</i></p>	<p>Northwoods Cooperative Weed Management Area <i>Miles Falck, Great Lakes Indian Fish and Wildlife Commission</i></p>	<p>Get Habitattitude™! Prevent the Release of Aquatic Invasive Species from Classrooms <i>Douglas A. Jensen, Univ. of Minnesota Sea Grant Program</i> Co-author: <i>Jamie K. Reaser</i></p>
<p>State of the Harbor Invasion, circa 2006: Continuing <i>Jack Kelly, U.S. EPA Office of Research and Development-MCED</i> Co-authors: <i>Corlis West, Greg Peterson, Igor Grigorovich, Gary Cypinski, Jon Van Alstine, Anett Trebitz, Joel Hoffman, John Darling</i></p>		

Climate Change

<p>Tales of Microbes and Photochemical Effects on Dissolved Organic Matter in the Earth's Largest Lake <i>James B. Cotner, Univ. of Minnesota</i> Co-authors: <i>Kris McNeill, Rose Cory, Andre Amado</i></p>	<p>A Graphic Call to Action: Climate Change and Community Engagement <i>Lisa Fitzpatrick, UMD Visualization and Digital Imaging Lab</i> Co-authors: <i>Alexandra Erickson, Marian Kramer</i></p>	<p>Paradise Lost? Climate Change in the Northwoods: An Art Exhibition and Community Education Project <i>Dolly A. Ledin, Univ. of Wisconsin-Madison Center for Biology</i> Co-author: <i>Terry Daulton</i></p>
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Fisheries and Aquatic Ecology

<p>Efficient and Effective Aquatic Macroinvertebrate Monitoring for Rocky Coastal Areas <i>Valerie J. Brady, Univ. of MN Natural Resources Research Institute</i> Co-authors: <i>Dan Breneman, Lucinda Johnson</i></p>	<p>HACCP-Hazard Analysis Critical Control Point Planning Process <i>Carl A. DuPoldt, Green Building Solutions and Supplies</i> Co-author: <i>Lisa Moss, U.S. Fish and Wildlife Service</i></p>	<p>Lake Sturgeon Spawning Habitat Enhancement Through Flow Manipulation <i>Mike J. Friday, Ontario Ministry of Natural Resources</i></p>
<p>Making a Living in an Oligotrophic Lake: <i>Mysis</i> Nutrition in Lake Superior <i>Michael E. Sierszen, U.S. EPA</i> Co-authors: <i>John R. Kelly, Timothy D. Corry, Jill V. Scharold, Edmund J. Isaac, Jason D. Stockwell</i></p>	<p>No Small Matter? An Increase of 30 Trillion Amphipods (+/- a few) in Lake Superior Between 1973 and 2005 <i>Jack Kelly, U.S. EPA Office of Research and Development-MCED</i> Co-authors: <i>Jill Scharold, Sam Miller, Peder Yurista, Jason Stockwell, Ron Dermott, Tim Johnson, Mary Balcer</i></p>	<p>Using Fish Larvae to Connect Landscapes to Coastal Fisheries <i>Joel C. Hoffman, U.S. EPA-Mid-Continent Ecology Division</i> Co-authors: <i>Greg Peterson, Jon Van Alstine, Samuel Miller, Anne Cotter, Michael Sierszen, John Morrice, Michael Knuth, Jack Kelly</i></p>
<p>Microbial Aspects of Sheet Steel Piling Corrosion in the Duluth-Superior Harbor <i>Randall E. Hicks, Univ. of Minnesota Duluth</i> Co-authors: <i>Jenna M. Bergin, Jensine Ohaju, Jason L. Kish</i></p>	<p>Planktonic Archaea and Nitrogen Cycling in Lake Superior <i>Jason Kish, Univ. of Minnesota Duluth</i> Co-authors: <i>Jenna M. Bergin, Josef P. Werne, Randall E. Hicks</i></p>	<p>Movement of Individual Brook Trout Within and Between Tributaries to Lake Superior <i>Thomas C. Pratt, Fisheries and Oceans Canada</i> Co-authors: <i>Marilee Chase, Lisa O'Connor</i></p>
<p>Abundance, Distribution and Identification of Deepwater Ciscoes in Lake Superior <i>Thomas C. Pratt, Fisheries and Oceans Canada</i> Co-author: <i>Nicholas E. Mandrak</i></p>	<p>Black Sturgeon River Dam: A Barrier to the Rehabilitation of Black Bay Walleye <i>Pat D. Furlong, Ontario Ministry of Natural Resources</i></p>	<p>NOM Characteristics of Lake Superior and Its Tributaries <i>Brandon M. Stephens, Univ. of Minnesota Large Lakes Observatory</i> Co-author: <i>Elizabeth C. Minor</i></p>
<p>A System Dynamics Model of Fish Populations and Their Interactions in Western Lake Superior from 1940-2020 <i>Stuart Sivertson, GPIR Line, Inc.</i></p>		

GIS and Information Management

<p>Using ArcGIS to Assess Age-0 Lake Trout Habitat Quality <i>Beth V. Holbrook, Univ. of Minnesota Duluth</i> Co-authors: <i>Tom Hrabik, Donn Branstrator, Steve Schram</i></p>	<p>More Opportunities for Collaboration: Great Lakes Northern Forest Cooperative Ecosystem Studies Unit <i>Jerrilyn L. Thompson, National Park Service</i> Co-author: <i>Dorothy H. Anderson</i></p>	
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Habitat Conservation and Species Management

<p>Ecological Restoration on the Detroit River <i>Chris Lehr, Nativescape.net</i></p>	<p>Quantifying Great Lakes Wetland Habitat Structure for Environmental Assessment <i>Jennifer H. Olker, Univ. of MN Natural Resources Research Institute</i> Co-authors: <i>Lucinda Johnson, Valerie Brady, Jan J.H. Ciborowski, Dan Breneman</i></p>	<p>Water Quality and Biological Condition of Lake Superior's Coastal Wetlands <i>Anett Trebitz, U.S. Environmental Protection Agency</i> Co-authors: <i>John Brazner, John Morrice, Michael Sierszen, Jo Thompson</i></p>
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Human Health

<p>Overview of the Minnesota Lake Superior Beach Monitoring and Notification Program <i>Heidi Bauman, Minnesota Pollution Control Agency</i> Co-author: <i>Melissa Rauner</i></p>	<p>Sources of <i>Escherichia coli</i> Identified in Fish from the Duluth-Superior Harbor <i>Dennis L. Hansen, Univ. of Minnesota Duluth</i> Co-authors: <i>John Clark, Satoshi Ishii, Michael Sadowsky, Randall Hicks</i></p>	
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Non-Point Source Pollution

<p>Reducing Pollution Can Increase Pollution</p> <p><i>Todd A. Carlson, City of Duluth</i> Co-author: <i>Sandy Mass</i></p>	<p>Growing Lake Superior Stewardship</p> <p><i>Joan F. Chadde, Michigan Technological University</i></p>	<p>Stormwater Utility-An Overview of a Tool for Managing Stormwater Through the Regulation of Impervious Surfaces</p> <p><i>Carl A. DuPoldt, Green Building Solutions and Supplies</i></p>
<p>Gully Stabilization and Forest Rehabilitation for Brook Trout Habitat, Lake Superior South-Shore Streams, Wisconsin</p> <p><i>Faith A. Fitzpatrick, U.S. Geological Survey</i> Co-authors: <i>John Hoopes, David Mladenoff, Dennis Pratt, Marie Pepler, Jordan Muss, Travis Scott, Eric Dantoin</i></p>	<p>Estimating Sediment, Nutrient, and Mercury Loads from Four Western Lake Superior Watersheds Using Continuous In-Stream Turbidity Monitoring</p> <p><i>Elaine M. Ruzycycki, Univ. of MN Natural Resources Research Institute</i> Co-authors: <i>Rich Axler, George Host, Jerry Henneck, Joseph Mayasich</i></p>	<p>Testing Versus Monitoring in the Assessment of Stormwater BMPs</p> <p><i>John S. Gulliver, Univ. of Minnesota</i> Co-authors: <i>Joohyon Kang, Raymond M. Hozalski, John Nieber</i></p>
<p>Techniques to Assess Rain Gardens as Stormwater Best Management Practices</p> <p><i>Rebecca Nestingen, Univ. of Minnesota</i> Co-authors: <i>Brooke C. Asleson, John S. Gulliver, Raymond M. Hozalski, John Nieber</i></p>	<p>Patterns in Lake Superior Nearshore Water Parameters and Plankton are Correlated with Adjacent Watershed Condition and Landuse</p> <p><i>Peder M. Yurista, U.S. EPA</i> Co-author: <i>Jack Kelly</i></p>	<p>Assessing the Effectiveness of Proprietary Stormwater Treatment Devices</p> <p><i>John S. Gulliver, Univ. of Minnesota</i> Co-authors: <i>Matt Wilson, Omid Mohseni, Raymond Hozalski</i></p>
<p>Duluth Stormwater Garden: Merging Art, Civics & Wetland Education</p> <p><i>Jill B. Jacoby, Sweetwater Alliance</i></p>		

Sustainability

<p>Lake Superior Circle Tour Workshops, Workshop Report and Recordings, February 2004</p> <p><i>Bruce Fallen, North of Superior Tourism Association</i> Co-author: <i>Tim Lukinuk</i></p>		
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Toxic Contaminants

<p>Efforts to Reduce Burn Barrels on the Bad River Reservation-Working Towards a Burn Free Community</p> <p><i>Lynn M. Hall, Bad River Band of Lake Superior Tribe of Chippewa</i></p>	<p>Toxic Chemical Use Trees</p> <p><i>Carri L. Lohse-Hanson, Minnesota Pollution Control Agency</i> Co-author: <i>Michael Taylor</i></p>	<p>Action to Prevent Open Burning of Trash in the Lake Superior Watershed</p> <p><i>Kate Taillon, Environment Canada, Ontario</i> Co-authors: <i>Carri Lohse-Hanson, Jim Bailey, Matt Hudson, John Jereczek, Liz LaPlante, Patrick Morash, Julie Sims</i></p>
<p>An Overview of Mercury Reduction Activities in the Lake Superior Basin</p> <p><i>Carri Lohse-Hanson, Minnesota Pollution Control Agency</i> Co-authors: <i>Kate Taillon, Jim Bailey, Matt Hudson, John Jereczek, Liz LaPlante, Patrick Morash, Julie Sims</i></p>	<p>Lake Superior 2005 Chemical Milestones: Meeting the Target of Zero Release in the Lake Superior Basin</p> <p><i>Carri Lohse-Hanson, Lake Superior Binational Workgroup Chemical Committee</i> Co-authors: <i>Kate Taillon, Jim Bailey, Matt Hudson, John Jereczek, Liz LaPlante, Patrick Morash, Julie Sims</i></p>	<p>A Proposed Lake Superior Binational Program Management Strategy for Substances of Emerging Concern</p> <p><i>Kate Taillon, Environment Canada, Ontario</i> Co-authors: <i>Matt Hudson, Carri Lohse-Hanson, Jim Bailey, John Jereczek, Liz LaPlante, Patrick Morash, Julie Sims</i></p>
<p>Mass Balance of Estrogenic Compounds in Wastewater Treatment</p> <p><i>Paige J. Novak, Univ. of Minnesota</i> Co-authors: <i>Matthew Wogen, Megan Ogdahl, Michael Semmens, Deborah Swackhamer</i></p>	<p>Methylmercury Content of Wild Rice from the Bad River Reservation, Wisconsin</p> <p><i>Kristofer Rolfhus, Univ. of Wisconsin-La Crosse</i> Co-authors: <i>Roger Haro, Kirsten Cahow, Leah Gibala</i></p>	<p>Backyard Trash Burning and Dioxin: How Communities Can Learn Not to Burn</p> <p><i>Melissa Simon, U.S. EPA Great Lakes National Program Office</i> Co-authors: <i>Ted Smith, Erin Newman, Jessica Winter, Elizabeth Hinchey-Malloy, Susan Boehme</i></p>

Watershed Stewardship

<p>Great Lakes Maritime Transportation Education Outreach: A Model for Engaging Students, Teachers and Communities</p> <p><i>Joan S. Chadde, Michigan Technological University</i> Co-author: <i>Dale Bergeron</i></p>	<p>Developing a Lake Superior Freshwater Estuary Center Through a National Estuarine Research Reserve Designation</p> <p><i>Becky Sapper, Univ. of Wisconsin Extension</i> Co-authors: <i>Patrick Robinson, Cathy Techtman, Travis Olson</i></p>	<p>Hands-on Activities Help Communities Understand Role of Individuals and Local Governments in Protecting Lake Superior</p> <p><i>Jesse D. Schomberg, Univ. of Minnesota Sea Grant Program</i> Co-authors: <i>Sue O'Halloran, Cindy Hagley, Amy Eliot</i></p>
<p>Achieving High Quality Effluent Voluntarily at the Greater Bayfield WWTP</p> <p><i>Margaret A. Guell, Strand Associates, Inc.</i> Co-authors: <i>Larry MacDonald, Jane M. Carlson</i></p>	<p>Northern Michigan University Outdoor Classroom and Native Plants Research Area-At a Crossroads</p> <p><i>Michael C. Rotter, Northern Michigan University</i> Co-authors: <i>Emily Wessels, Ronald Sundell</i></p>	<p>Lake Superior Streams Volunteer Monitoring Program</p> <p><i>Sue O'Halloran, Univ. of Wisconsin-Superior</i> Co-author: <i>Amy Eliot</i></p>
<p>Real 4-H! Lake Superior Project</p> <p><i>Joan Wimpe, Univ. of Wisconsin Extension, Douglas County</i> Co-authors: <i>Sarah Wilcox</i></p>	<p>Proposed Quarry on the Shore of Lake Superior</p> <p><i>Joel Cooper, Citizens Concerned for Michipicoten Bay</i></p>	
<p>Wisconsin Lake Superior Public Partner Team</p> <p><i>Nancy J. Larson, Univ. of Wisconsin Extension</i></p>		

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