



CONFERENCE AGENDA

Tuesday, October 16 -- Workshops on Beach Monitoring and New Proposed Criteria

Monday- last Ferry to island **4:30** pm, Tuesday - first ferry to island at **7:30** am

Workshops — Shannon Briggs, Chair, Location TBD

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| 8:00 | 9:00 | Holly Wirick, USEPA Region 5 Shannon Briggs, Michigan Dept. of Environ. Quality Scott Reynolds, Environmental Canine Services | Beach 101 |
| 9:00 | 10:00 | Julie Kinzelman, City of Racine Greg Kleinheinz, Univ. of Wisconsin-Oshkosh | Sanitary Surveys |
| 10:00 | 10:20 | BREAK—continental breakfast provided | |
| 10:20 | 11:00 | Denise Hawkins, USEPA | Overview of New Recreational Water-Quality Criteria |
| 11:00 | 12:00 | Shannon Briggs, Michigan Dept. of Environ. Quality | Open discussion—how will new proposed criteria affect TMDL monitoring and integrated reporting? |
| 12:00 | 1:00 | LUNCH BREAK—buffet lunch provided | |
| 1:00 | 2:00 | Meredith B. Nevers, USGS | Hands on evaluation of data for new proposed criteria |
| 2:00 | 3:00 | Julie Kinzelman, City of Racine | qPCR monitoring data for new proposed criteria |
| 3:00 | 3:30 | BREAK— desert and beverages provided | |
| 3:30 | 3:50 | Denise Hawkins, USEPA | Overview of BEACH Act funding |
| 3:50 | 4:15 | Matt Warner and Stephanie Swart, Mich Dept of Environmental Quality | Opportunities to Conserve and Restore Great Lakes Beach Health through the Coastal Zone Management and Area of Concern Programs |
| 4:15 | 4:50 | Speaker panel | Open discussion-- How to sustain beach monitoring programs |
| Early registration from 4 to 6 PM | | | |
| 6:00 | 6:30 | Holly Wirick, USEPA | Debut of a DVD on Beach Mitigation |
| 6:00 | 9:00 | Welcome hosted by the GLBA Board | Meet & Greet in Presidential Suite (appetizers, snacks, and beverages provided) |

Tuesday - last Ferry to island **4:30** pm, Wed - first ferry to island at **7:30** am

Wednesday, October 17 — Conference sessions

Registration beginning at 7 AM (breakfast on your own)

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| 8:00 | 8:20 | David Rockwell, Univ. of Michigan, outgoing GLBA President Tom Edge, Environment Canada, incoming GLBA President | Welcome and introduction |
| 8:20 | 8:40 | Cameron Davis, USEPA, Senior Advisor to the Administrator (Great Lakes) | Beaches: Our doorways to the Great Lakes |
| 8:40 | 9:00 | Adam Mednick, Wis. Dept of Natural Resources | Beach Nowcasting in a post –BEACH Act World |
| 9:00 | 9:20 | Denise Hawkins, USEPA | EPAs 2012 Recreational Water Criteria |
| 9:20 | 9:40 | John Wathen, USEPA | EPAs Revised National Beach Guidance and required Performance Criteria for Grants |

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| 9:40 | 10:00 | BREAK—continental breakfast provided | |
| Great Lakes Restoration Initiative success stories — Shannon Briggs and Greg Kleinheinz, Co-chairs | | | |
| 10:00 | 10:20 | Sarah U'Ren, The Watershed Center Grand Traverse Bay | Grand Traverse Bay Watershed GLRI Beach Restoration Projects |
| 10:20 | 10:40 | Sarah Opfer, NOAA Marine Debris Program | NOAA community-based marine debris removal efforts in the Great Lakes |
| 10:40 | 11:00 | Amie Brady, USGS Ohio Water Science Center | Predictive modeling: Data processing tools and success stories |
| 11:00 | 11:20 | Peter Pittner, Miller Engineers & Scientists | Naturalized solutions to reduce stormwater impacts at public beaches |
| 11:20 | 11:40 | Julie Kinzelman, City of Racine | Implementing qPCR on a regional level. |
| 11:40 | 12:00 | Sheridan Haack, USGS Michigan Water Science Center | Factors Influencing Bacterial Pathogen Genes at Great Lakes Beaches |
| 12:00 | 1:20 | BUFFET LUNCH — provided | |
| | | LUNCH SPEAKER—Joan Rose, Mich. State University | The 100 Year study for the Laurentian Great Lakes |
| | | LUNCH SPEAKER—Charles Kovatch, USEPA | An overview of change in the Great Lakes from 1900 to today |
| Management of beaches-how to address impacts of climate change, the balance between protecting ecosystems and providing public access, and community and shoreline stewardship — Lyman Welch, Chair | | | |
| 1:20 | 1:40 | Patrick Donnelly, Lake Huron Centre for Coastal Conservation | Beach stewardship: new programs of engaging the grassroots |
| 1:40 | 2:00 | Geoffrey Peach, Lake Huron Centre for Coastal Conservation | Dune Conservation: foundation of good beach health |
| 2:00 | 2:20 | Todd Brennan, Alliance of the Great Lakes | Adopt a Beach: A Platform for Great Lakes Stewardship and Action |
| 2:20 | 2:40 | Yvonne Stokes, Another Wild Goose Chase | Gull Management Programs and <i>Escherichia coli</i> at Two Chicago Beaches |
| 2:40 | 3:00 | Steve Mauro, Mercyhurst University | The contribution of Bacterial Pollution by Algae in Recreational Freshwater |
| 3:00 | 3:20 | BREAK—desert and beverages provided | |
| Communicating beach water quality to the public — Sonia Joseph Joshi and Christine Manninen, Co-chairs | | | |
| 3:20 | 3:40 | Bill Kramer, USEPA | Modernized BEACON Webpage and Prototype Any-time Data Verification tool |
| 3:40 | 4:00 | Ed Verhamme, LimnoTech | myBeachCast mobile app serves data for all Great Lake states |
| 4:00 | 4:20 | Jesse Schomberg, Minnesota Sea Grant | ParkPointBeach.org: a holistic approach to communicating beach information to recreationists |
| 4:20 | 4:40 | Frank Lupi, Michigan State University | Who visits Great Lakes beaches and do they value Great Lakes water quality? |
| 4:40 | 5:00 | Richard Whitman, USGS, Great Lakes Science Center | Report of the GLBA expert workshop on fecal indicator bacteria in beach sands |
| POSTER SESSION and appetizers, 6 to 9 PM | | | |
| Thursday, October 18 — Conference sessions | | | |
| Physical, hydrological and geological aspects of beaches -- Clare Robinson and Allan Crowe, Co-chairs | | | |
| 8:00 | 8:20 | Roger Miller, Miller Engineers and Scientists | Natural Beach Dynamics and Effective Planning of Enhancements and Naturalization |
| 8:20 | 8:40 | Mary-Louise Byrne, Wilfrid Laurier University | Sand Dune Restoration in Point Pelee National Park, Ontario, Canada |
| 8:40 | 9:00 | Marc Verhougstraete, Michigan State University | Microbial responses to land, physical, chemical, environmental, and hydrological factors |
| 9:00 | 9:20 | Richard Whitman, USGS Great Lakes Science Center | What can empirical observations and numerical modeling tell us about beach contamination? Examples from southern Lake Michigan |

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| 9:20 | 9:40 | Allan Crowe, Environment Canada | Impact of Groundwater-Stream Interaction on Groundwater Conditions Below Beaches |
| 9:40 | 10:00 | Clare Robinson, University of Western Ontario | Occurrence of Heavy Metals in a Freshwater Beach, Lake Erie |
| 10:00 | 10:20 | BREAK—continental breakfast provided | |
| Identifying sources and sinks of fecal contamination through sanitary surveys, GIS, and other tools—Mike Sadowsky and Julie Kinzelman, Co-chairs | | | |
| 10:20 | 10:40 | Aneta Pekalska, University of Toledo | Watershed <i>E. coli</i> sources identified following enumeration sewer mapping and GIS |
| 10:40 | 11:00 | Meredith Nevers, USGS Great Lakes Science Center | Sources and Fluctuations of <i>E.coli</i> Along 40-km Urban Coast of Lake Michigan |
| 11:00 | 11:20 | Chanlan Chun, University of Minnesota | Is Macroalga <i>Cladophora</i> a Source of the Clostridium botulinum for Avian Botulism in the Great Lakes |
| 11:20 | 11:40 | Mauricio Larenas, Source Molecular | Microbial Source Tracking: Search for Human, Gull, and Dog |
| 11:40 | 12:00 | Michael Sadowsky, University of Minnesota | Development of a Practical Pyrosequencing-based Microbial Source Tracking Method (PyroMiST) |
| 12:00 | 12:50 | BUFFET LUNCH -- provided | |
| Predictive tools and rapid testing: Method advancements and expansion of applications—David Rockwell and Donna Francy, Co-chairs | | | |
| 12:50 | 1:10 | Pam Struffolino, University of Toledo | Continuing Efforts to Improve a Water Quality Model for a Recreational Beach |
| 1:10 | 1:30 | Mark Citriglia, Northeast Ohio Regional Sewer District | Predicting Water Quality at Villa Angela Beach using qPCR Technology |
| 1:30 | 1:50 | Jeanette Schnars, Regional Science Consortium | Predicting <i>E.coli</i> Exceedances at Swimming Beaches Using Real-time Modeling and qPCR |
| 1:50 | 2:10 | Jennifer Haley, St. Lawrence River Institute of Environmental Sciences | A comparison of techniques for determining beach <i>E. coli</i> concentrations |
| 2:10 | 2:20 | BREAK—desert and beverages provided | |
| 2:20 | 2:40 | Andrew Bramburger, St. Lawrence River Institute of Environmental Sciences | Nowcasting of <i>E. coli</i> concentrations at St. Lawrence River beaches |
| 2:40 | 3:00 | Laura Pobanz, Macomb County Health Department | Beach Forecasting-Predicting the Unpredictable |
| 3:00 | 3:20 | Alicia Ritzenthaler, Cooperative Institute for Limnology and Ecosystem Research | Development of a process model-based bacterial water quality forecasting system |
| 3:20 | 3:40 | Steve Corsi, USGS Wisconsin Water Science Center | Enabling New Sophistication and efficient Data Access for Beach Water- Quality Forecasts |
| Conference closing | | | |
| 3:40 | 4:00 | David Rockwell | Closing comments |
| Thursday—last Ferry out at 6 pm to Mackinaw City (special accommodation for GLBA) and 5 pm to St. Ignace | | | |
| Friday--first ferry out at 8 am , last ferry out 8 pm | | | |