AGENDA

Great Lakes BEACH CONFERENCE

Muskegon, MI October 31-November 2

Monday

October 31

11:30 AM **REGISTRATION** (open all afternoon)

12:30 PM **BEACH 101** – Shannon Briggs and members of the Michigan Lab Network (MiNet)

Learn from success stories on how to prepare a sampling plan, consider options for lab testing, communicate results to the public, and when to use rapid methods and source tracking to

improve beach water quality.

1 PM **SANITARY SURVEYS** – Lexi Porter and Katelyn Anderson, Annis Water Resources Institute, Grand Valley State University (AWRI-GVSU)

This session will train beach managers to use the USEPA's sanitary survey app, Survey123, and download data, including harmful algal bloom and foam pictures and results. Learn how to use data from sanitary surveys and routine monitoring data to identify sources of pollution. Sanitary surveys lead to corrective actions and successful remediation efforts. Survey123 provides a platform to digitally link sanitary survey data with photos of site conditions that can be used to document current conditions, alert others of conditions that may be hazardous, and create a historical record for future reference.

2 PM RAPID TESTING WITH DRAFT METHOD C – MiNet Members

University; Mike Swain, Oakland County Health Division

Working with qPCR and ddPCR to determine beach status – How To's and Lessons Learned Panelists: Matt Flood, Michigan State University (MSU); Josh Sharp, Northern Michigan

epa.gov/cwa-methods/other-clean-water-act-test-methods-microbiological

3 PM BREAK

3:15 PM **SOURCE TRACKING** – *MiNet Members*

Using microbial source tracking (MST) to identify causes of fecal contamination at beaches Panelists: Matt Flood, MSU; Tami Sivy, Saginaw Valley State University; Michael Eslick, Public Health Muskegon County

4:15 - WASTEWATER MONITORING DISCUSSION

5:30 PM Advances, emerging issues, and approaches for wastewater surveillance in Michigan

Panelists: Nishita D'Souza, MSU; Penny Jane Nowlin, Regional Laboratory North West Health; Kelly Geith, MDHHS; Russ Faust, Oakland County Health Dept; Jeff Ram, Wayne State University

6 – 8 PM NETWORKING RECEPTION AND POSTER SESSION/STUDENT POSTER COMPETITION

Tuesday Morning

November 1

7:30 AM	REGISTRATION AND CONTINENTAL BREAKFAST		
8:30 AM	Opening Remarks Shannon Briggs, Michigan Department of Environment, Great Lakes, and Energy (EGLE)		
9 AM	Welcome Dr. Rick Rediske, Annis Water Resources Institute, Grand Valley State University (AWRI-GVSU)		
9:15 AM	Student Poster Awards, Shannon Briggs, EGLE		
9:30 AM	Highlights of Local Health Department Beach Testing Program Michael Eslick, Public Health Muskegon County		
10 AM	BREAK		
10:15 AM	REMEI	REMEDIATION – Moderator: Gregory Kleinheinz, R.S., Ph.D. University of Wisconsin	
	10:16	The Economic Benefits of Great Lakes Beach Reengineering Matthew Winden, University of Wisconsin – Whitewater	
	10:36	Implementing Avian Deterrents at Lake St. Clair Metropark Beach Annette DeMaria, Environmental Consulting & Technology	
	10:56	Discussion/Take-away for Economic Benefits and Avian Deterrents	
	11:10	Appraisal of EPA qPCR method variations to reduce interferences by Great Lakes region water samples Richard Haugland and Stephani Hertel, United States Environmental Protection Agency	
	11:30	Discussion/Take-away for EPA qPCR method variations	

Tuesday Afternoon

November 1

NOVEHIBEL I				
11:45 PM	NETWORKING LUNCH			
1 PM	LAB FOCUS – Moderator: Dr. Joan Rose, Michigan State University			
	Implementing molecular testing methods in a water qualit perspective Brian Scull, Grand Valley State University	y laboratory: A Lab Manager's		
	Creating a Community of Practice to implement new approach The Michigan Network for Environmental Health and Tech Erin Dreelin, Michigan State University			
1:45 PM	coli METHODS - Moderator: Shannon Briggs, EGLE			
	Validity Assessment of Michigan's Proposed qPCR Threshold Contamination James McNair, AWRI-GVSU	old Value for Monitoring <i>E. coli</i>		
	Muskegon County Beach Monitoring: A Review and Applic Matrix Utility Lexi Porter, AWRI-GVSU	ation of Beach Closure Decision		
2:30 PM	BREAK			
2:40 PM	SOURCE TRACKING – Moderator: Shannon Briggs, EGLE			
	41 Identifying useful Microbial Source Tracking Markers for u Matt Flood, MSU	se in the Great Lakes Region		
	Using Watershed Characteristics for Improving Fecal Source John Hart, AWRI-GVSU	ce Identification		
	Pathogens in Water: A New Conceptual Fecal Impairment John Hart, AWRI-GVSU	Framework		
	41 Mitchell Creek Source Tracking Study Analysis – Year 1 Res Rebecca Ives, MSU	sults		
	Using MST Markers to Determine the Source of Fecal India Beaches Dr. Richard Rediske, AWRI-GVSU	cator Bacteria on 3 Great Lakes		
4:30 PM	SAFETY Presenter: Bob Pratt Benjamin, Great Lakes Surf Rescue Project			
5 PM	NNER ON OWN otional Dinner Discussions Inland Lake Data Discussion – Pigeon Hill Brewing Compa others – to be determined	ny		

Wednesday

November 2

8 AM	NETWORKING BREAKFAST		
9 AM	9:02 9:32	Harmful Algal Blooms in Michigan's Recreational Waters Aaron Parker, EGLE Cyanobacteria: New Problems from Old Organisms Rick Rediske, AWRI - GVSU	
	10:02		
	10:32	Discussion/Take-away	
10:50 AM	BREAK		
11 AM	NEW METHODS- Moderator: Kevin B. Strychar, AWRI-GVSU		
	11:01	Developing and Using Image Flow Cytometry (IFCM) to Detect Escherichia coli (E. coli) along Coastal Beaches of Lake Michigan Katelyn Anderson, AWRI – GVSU	
	11:21	What You Resist Will Persist: Understanding the Importance of Pathogen-Specific Survival in Surface Waters Kara Dean, Michigan State University	
	11:41	Image Flow Cytometry (IFCM) used to identify Escherichia coli (E. coli) on fruit, foliar, and soil samples from blueberry (Vaccinium corymbosum, Linnaeus 1753) trees grown near coastal habitats in Michigan Kevin B. Strychar, AWRI-GVSU	
12 PM	ADJOURN		

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