National Recreational Water Quality Workshop April 6 – 8, 2021

This agenda is for live panel sessions and does not include time for viewing pre-recorded presentations.

Pre-recorded presentations made available March 15.

Tuesday, April 6th

| 2:00 – 3:00 (EDT) | | |
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| Plenary Session | | |
| <u>Presentation</u> | <u>Presenter</u> | |
| Welcome | Mike Komp, Executive Director, Conservation Technology | |
| | Information Center | |
| | | |
| Protection of Recreational Waters | Deborah Nagle, Director, Office of Science and Technology, US EPA | |
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| What are the Chances of Getting Sick After | Sam Dorevitch, University of Illinois Chicago, School of Public | |
| Swimming; Implications for Community Health? | Health | |
| errining, inprediction for community from the | | |
| Tools of the Trade, Evolution of Beach | Julie Kinzelman, University of Wisconsin-Parkside College of | |
| Management | Natural and Health Sciences; City of Racine Public Health | |
| Wanagement | Department Laboratory, Retired | |
| | Department Laboratory, Netheu | |
| 3:00 – 3:45 (EDT) | | |
| Session 1: Risks to Recreation – Panel Discussion | Chairs: Virginia Roberts, Centers for Disease Control and | |
| Session 1. Alsks to hedreadon Tranci Discussion | Prevention | |
| | Abhilasha Shrestha, University of Illinois Chicago | |
| | Abiliasila Siliestila, Giliversity of Illinois Cilicago | |
| Panelists and their Pre-recorded Presentations | | |
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| Presentation | Presenter | |
| | | |
| Integrating Children's Exposure in Risk Assessment | Helena Solo-Gabriel, University of Miami | |
| Outhornto Associated with Hatasatad Beansational | NAI- NA-Hieli Contour for Disease Control and Dresentian in for | |
| Outbreaks Associated with Untreated Recreational | Mia Mattioli, Centers for Disease Control and Prevention in for | |
| Water — United States, 2009-2017 | Michele Hlavsa | |
| | | |
| The One Health Harmful Algal Bloom System | Virginia Roberts, Centers for Disease Control and Prevention | |
| (OHHABS) | | |
| | | |
| Canine Mortalities in Michigan, Water Exposure | Susan Peters, Michigan Department of Health and Human | |
| | Services | |
| | | |
| The National Aquatic Resource Surveys: Findings on | Sarah Lehmann, US EPA | |
| | | |

Break: 3:45 – 4:00 (EDT) 4:00 – 5:15 (EDT)

Poster Session

• Authors in breakout rooms available for short presentations and questions

Wednesday, April 7th

2:00 - 3:00 (EDT)

Session 2: Advances in Monitoring: Approaches and Technology - Panel Discussions

Chairs: Rachel Noble, University of North Carolina, Chapel Hill Tracy Bone, US EPA

Panel A and their Pre-recorded Presentations, Rachel Noble

Presentation Presenter

Five Years of Enterococci qPCR in Chicago: Research

to Practice

Kendall Anderson, Beach Water Quality Project Manager

Chicago Park District

Towards a Quantitative Human Fecal Source

Identification Recreational Water Quality

Management Tool

Orin Shanks, US EPA

Using Next Generation qPCR to Monitor for Toxic

Cyanobacteria

Laura Webb, US EPA

Derivation of the Equivalent qPCR Value for Escherichia coli to Existing Culture-based Water Quality Standards for Monitoring Beaches in

Michigan

Shannon Briggs, Michigan Department of Environment, Great

Lakes, and Energy

Panel B and their Pre-recorded Presentation, Tracy Bone

Presentation Presenter

Predictive Models and Fast Detection of Coliphages for a Paradigmatic Improvement in Rapid

Assessment of Water Quality

Anicet Blanch, University of Barcelona

Portable System for Early Detection of Harmful Algal

Bloom Toxins

Sarah Bickman, MBio Diagnostics

Use of Novel Autonomous Technology for Improved

Water Quality Monitoring in High Priority Recreational and Shellfish Harvesting Waters Denene Blackwood, University of North Carolina Chapel Hill

Antimicrobial Resistance in Wastewater Effluent

Streams Discharging to Urban Coastal Waters

Joshua Steele, Southern California Coastal Water Research

Project

3:00 - 3:45 (EDT)

Session 3: Notification and Risk Communication -

Panel Discussion

Chair: Shannon Briggs, Michigan Department of Environment, **Great Lakes and Energy**

Panelists and their Pre-recorded Presentations

Presentation

Presenter

Beach Report Card and NowCast: Successes and Challenges of Public Water Quality Notifications Luke Ginger, Heal the Bay, Santa Monica, CA

Lake Erie Beach Monitoring and Public Notification

Database: Beachquard

Jenifer Hassinger, Ohio Department of Health

Improving the Communication Strategy for the S.C.

Beach Monitoring Program

Lindsey Lachenmyer, South Carolina Department of

Environmental Control

Monitoring & Public Notification Program for Harmful Algal Blooms in Recreational Lakes Matthew Graul, East Bay Regional Park District, CA

Break: 3:45 – 4:00 (EDT) 4:00 – 5:15 (EDT)

Poster Session

• Authors in breakout rooms available for short presentations and questions

Thursday, April 8th

2:00 - 3:00 (EDT)

Session 4: Restoring Waters to Recreational Use -

Panel Discussion

Chairs: Orin Shanks, US EPA
Julie Kinzelman, University of Wisconsin-Parkside College
of Natural and Health Sciences; City of Racine Public Health
Department Laboratory, Retired

Panel A and their Pre-recorded Presentations, Orin Shanks

Presentation Presente

Tracking Land-based Sources of Nutrients and Microbial Contamination in a Pacific Northwest

Estuarine Watershed

Amy Zimmer-Faust, Southern California Coastal Water

Research Project

Ambient Water Quality Thresholds for Humanassociated HF183: Effect of Water Temperature, Aging, and Co-contamination with Gull Feces Jeffrey Soller, Soller Environmental

MERA – an Integrated, Transdisciplinary Study of Water Quality and Human Health at a Tropical

Beach

Valerie Harwood, University of South Florida

EPA's New Sanitary Survey App for Marine and

Freshwaters

Samantha Fontenelle, US EPA

Panel B and their Pre-recorded Presentations, Julie Kinzelman

The Florida Department of Environmental Protection's MST Toolbox in Action

David Whiting, Florida Department of Environmental

Protection

Lessons Learned on Remediation Options for Harmful

..., ...

Algal Blooms (HABs) in Recreational Lakes

Rebecca Tuden, East Bay Regional Park District, CA

Identifying Septic Pollution Exposure Routes During a Waterborne Norovirus Outbreak -- A New Application for Human-associated Microbial Source

Mia Mattioli, Centers for Disease Control and Prevention

Tracking qPCR

Sky Harbor Beach Restoration: Impacts on E. coli

Levels Over a Three-Year Period

Cindy Hakala, Minnesota Department of Health

3:00 - 4:00 (EDT)

Session 5: Building Partnerships in Recreational Water Monitoring and Remediation – Panel Discussion

Chairs: Lesley D'Anglada, US EPA and Ibrahim Goodwin, US

EP/

Panel A and their Pre-recorded Presentations, Lesley D'Anglada

<u>Presentation</u> <u>Presenter</u>

Utah's Joint Harmful Algal Bloom and E. coli Recreational Water Quality Advisory Program Kate Fickas, Utah Division of Water Quality

Integrating HAB Detection Technologies with a Regional Observing System in the Great Lakes

Tim Davis, Bowling Green State University

Development of a Multifaceted Statewide Strategy for the Monitoring and Assessment of Freshwater Harmful Algal Blooms in California Jayme Smith, Southern California Coastal Water Research

Project

Panel B and their Pre-recorded Presentations, Ibrahim Goodwin

Presentation Presenter

Citizen Science at the EPA: Streamlining Water

Quality Testing and Future Visions

Jay Benforado, US EPA

Citizen and Community Evolvement to Make a More

Swimmable California

Erick Burres, California Water Quality Monitoring Council

A Water Quality Standards Perspective on Swimming

in An Urban Waterway – The Anacostia River

Ed Dunne, District of Columbia, Department of Energy and

Environment

Building Partnerships to Enhance Public Health

Protection at the Beach Through the Surfrider

Foundation's Blue Water Task Force

Mara Dias, Surfrider Foundation

Break: 4:00 - 4:15 (EDT)

| 4:15 – 4:45 (EDT) | | |
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| Session 6: What's Next? Emerging Concerns – Panel Discussion | Chair: John Griffith, Southern California Coastal Water Research Project | |
| Panelists and their Pre-recorded Presentations | | |
| Presentation How well do Coliphages Predict the Presence and Concentrations of Human Enteric Viruses in Water and Wastewater? | <u>Presenter</u> Mark Sobsey, University of North Carolina | |
| Risk-based Water Quality Threshold for Coliphage in Surface Waters of Different Temperatures | Alexandria Boehm, Stanford | |
| EPA's Development of Recreational Water Criteria for Coliphage | Kaedra Jones, ICF | |
| Large-scale Patterns of Antimicrobial Resistance Genes and Fecal Indicator Bacteria in United States Rivers and Streams | Scott Keely, US EPA | |
| Pathogenic Vibrio Species in Southern California Coastal Waters | Rachel Diner, University of California San Diego | |
| International Comparison of Antibiotic Resistance Genes and Microbial Communities from Wastewater Treatment Plant Final Effluents and Receiving Environments | Ayella Maile-Moskowitz, Virginia Tech | |
| 4:45 – 5:00 (EDT) | | |
| Meeting Summary | Steve Weisberg, Southern California Coastal Water Research Project | |
| 5:00 – 5:15 (EDT) | | |
| EPA Closing Remarks | Sara Hisel-McCoy, US EPA | |