
Event Agenda

12th National Monitoring Conference

Monday, April 19, 2021

7:00 AM - 7:00 AM	Fluid 5K Fun Run/Walk - Day 1
9:00 AM - 11:00 AM	EPA Region 1 Meet and Greet
9:30 AM - 11:00 AM	EPA Region 2 Meet and Greet
9:30 AM - 11:00 AM	EPA Region 7 Meet and Greet
9:30 AM - 11:00 AM	EPA Region 3 Meet and Greet
10:00 AM - 11:30 AM	EPA Region 4 Meet and Greet
10:00 AM - 11:30 AM	EPA Region 6 Meet and Greet
10:00 AM - 11:00 AM	EPA Region 8 Meet and Greet
11:00 AM - 12:30 PM	Workshop: Introduction to Weighted Regressions on Time, Discharge and Season (WRTDS) and the EGRET R-package, for analysis of surface water quality data Speaker: Robert Hirsch
11:00 AM - 12:30 PM	Panel Discussion: Protecting Water Resources, Conserving Aquatic Species, and Educating People through Testing and Implementation Monitoring of Forestry Best Management Practices Session Moderator: Matt Poirot Erik Schilling 11:00 AM - 12:30 PM Speaker: Erik Schilling Mike Aust 11:00 AM - 12:30 PM Speaker: Wallace Michael (Mike) Aust AJ Lang 11:00 AM - 12:30 PM Speaker: AJ Lang Hughes Simpson 11:00 AM - 12:30 PM Speaker: Hughes Simpson
11:00 AM - 12:30 PM	Workshop: NMC Transform Your Hidden Racial Bias Workshop (Session 1) Speaker: Barb Horn (she/her) living on S. Ute Lands
12:30 PM - 2:00 PM	EPA Region 10 Meet and Greet
1:00 PM - 2:30 PM	Workshop: NMC Transform Your Hidden Racial Bias Workshop (Session 2) Speaker: Barb Horn (she/her) living on S. Ute Lands
1:00 PM - 2:30 PM	Workshop: NADA2: A Full Suite of Data Analysis Methods for Nondetects Speaker: Dennis Helsel

3:00 PM - 4:30 PM

JEDI Lightning Round Session - Real-Time

Speakers: Sylvia Lee, Benita Best-Wong

EMPOWERING COMMUNITIES IN THE RESTORATION AND CONSERVATION OF THEIR NATURAL WATERS

3:00 PM - 4:30 PM

Speaker: María Gabriela Huertas Díaz

Empowering Coastal Communities to be First Responders to Oil Spills to Protect Local Waters and Economies from Pollution

3:00 PM - 4:30 PM

Speaker: Bill Adams

JEDI Lightning Talk #4 Water Quality Monitoring: Citizen Science and Community Change (Prince William County, Virginia: The Monacan Indian Nation) By Veronica Tangiri

3:00 PM - 4:30 PM

Speaker: Veronica Tangiri

Building Community Science

3:00 PM - 4:30 PM

Speaker: Ally Celones Senturk

MCES Equity Ambassadors: Championing a Culture of Equity in the Workplace

3:00 PM - 4:30 PM

Speaker: Casandra Champion and Suidi Hashi

Tribal Citizen Science Project

3:00 PM - 4:30 PM

Speaker: Cynthia Naha

Transforming research and relationships through collaborative tribal-university partnerships on Manoomin (wild rice)

3:00 PM - 4:30 PM

Speaker: Madeline Nyblade

3:00 PM - 4:30 PM

JEDI Lightning Round Session - Asynchronous Talks

JEDI Lightning Talk #2 (Asynchronous)

3:00 PM - 4:30 PM

Speaker: Gabriela Margarita

The Fargo Project: An Experiment in Utilizing Social and Cultural Values in Urban Stormwater Systems

3:00 PM - 4:30 PM

Speaker: Christina Hargiss

Exploring relationships among stream health, human well-being, and demographics

3:00 PM - 4:30 PM

Speaker: Paul Angermeier

Social Justice and Great Lakes Areas of Concern

3:00 PM - 4:30 PM

Speaker: Jennifer Josephs

3:00 PM - 4:30 PM

Workshop: New capabilities of the EGRET R-package, for analysis of surface water quality data using WRTDS

Speaker: Robert Hirsch

3:00 PM - 4:30 PM

Panel Discussion: Performing Clean Water Act Assessments More Efficiently Using Sharable Code

Session Moderator: Cristina Mullin

Jason Jones

3:00 PM - 4:30 PM

Speaker: Jason Jones

Bryan Rabon

3:00 PM - 4:30 PM

Speaker: Bryan Rabon

Angie Reed

3:00 PM - 4:30 PM

Speaker: Angie Reed

Michelle Thawley

3:00 PM - 4:30 PM

Speaker: Michelle (Shelly) Thawley

5:00 PM - 6:00 PM

Plenary Session: A 34-Year Retrospective of Environmental Mercury Science: Foundational Beginnings; Establishing Global Conceptual Paradigms; and, Exciting New Science for the Future

Speaker: David Krabbenhoft

6:00 PM - 7:30 PM

EPA Region 9 Meet and Greet

Tuesday, April 20, 2021

7:00 AM - 7:00 AM

Fluid 5K Fun Run/Walk - Day 2

10:00 AM - 10:30 AM

Morning Yoga

Speakers: Julie Vastine, Kristen Parry

10:00 AM - 10:30 AM

Coffee Club

11:00 AM - 12:00 PM

Plenary Session: Chandra Taylor, Southern Environmental Law Center

Plenary Speaker: Chandra T. Taylor-Sawyer

12:30 PM - 2:00 PM

DNA-based aquatic ecosystem monitoring: past, present, and future

Session Moderator: John Darling

DNA-Based Bioassessment in Europe and Beyond: Promises and Challenges

12:30 PM - 12:50 PM

Speaker: Florian Leese

Integrating DNA-Based Biomonitoring Into the United States National Aquatic Resource Surveys

12:50 PM - 1:10 PM

Speaker: Richard Mitchell

Federal Guidance to Facilitate Implementation of Targeted Environmental DNA Detection for Invasive Species and Species at Risk Management in Canada

1:10 PM - 1:30 PM

Speaker: Cathryn Abbott

California Dreaming of Molecular Methods for Bioassessment

1:30 PM - 1:50 PM

Speaker: Susanna Theroux

12:30 PM - 2:00 PM

DNA-based aquatic ecosystem monitoring: past, present, and future

Session Moderator: John Darling

A Scalable DNA-Based Approach to Identifying All Microbial Contamination in Watersheds

12:30 PM - 2:00 PM

Speaker: Gary Andersen

Metagenomic Characterization of a Harmful Algal Bloom in Cayuga Lake, New York, Using Nanopore Sequencing

12:30 PM - 2:00 PM

Speaker: Peter Schafran

Continental-Scale Bioassessment and Water Quality via Aquatic Environmental DNA

12:30 PM - 2:00 PM

Speaker: Joseph Craine

Strategy for Successful Integration of DNA-Based Methods in Freshwater Biomonitoring

12:30 PM - 2:00 PM

Speaker: Agnès Bouchez

Environmental DNA Sampling of Fish Assemblages in the Wadeable Streams of the Mid-Atlantic Region – A Comparison to Electrofishing at NRSA Sites

12:30 PM - 2:00 PM

Speaker: Lou

Building a Molecular Algal Classification Index for Stream Assessments in New Hampshire

12:30 PM - 2:00 PM

Speaker: Alison Watts

Mitochondrial and Nuclear Genome Degradation across eDNA and eRNA: Utilizing Multiple Markers for Interpreting Dreissenid Infestation

12:30 PM - 2:00 PM

Speaker: Nathaniel Marshall

12:30 PM - 2:00 PM

Lake and streamflow hydro-alteration: monitoring effects on ecological and biointegrity

Session Moderator: Katie Hein

Using Lake Observations from Citizen Scientists and Satellites to Understand Regional Variations in Lake Water Storage

12:30 PM - 12:50 PM

Speaker: Tamlin Pavelsky

Lake Hydrologic Indicators From a Single Sample: Using $\delta^2\text{H}$ and $\delta^{18}\text{O}$ in Assessing Evaporation and Water Residence Time of Lakes in EPA's National Lakes Assessment

12:50 PM - 1:10 PM

Speaker: Renee Brooks

Natural and Human Drivers of Water-Level Decline and Evaporation: Inflow in US Lakes

1:10 PM - 1:30 PM

Speaker: C. Emi Fergus

Regional Patterns and Drivers of Flow Alteration in US Rivers and Streams Based on Channel Morphology From EPA's National Aquatic Resource Surveys

1:30 PM - 1:50 PM

Speaker: Philip Kaufmann

12:30 PM - 2:00 PM

Lake and streamflow hydro-alteration: monitoring effects on ecological and biointegrity

Effects of Beaver on Water Quality in Urban Streams through Hydrologic Alterations

12:30 PM - 2:00 PM

Speaker: Cassandra Smith

Assessing Impacts of Stream Habitat and Biota From Urban Hydro-Alteration and the Potential for Functional Lift From Restoration

12:30 PM - 2:00 PM

Speaker: John Schwartz

Effects of Stream Intermittency on Minnow and Darter Trophic Ecology in Southwest Georgia, USA

12:30 PM - 2:00 PM

Speaker: Christine Fallon

Paleolimnological Evidence of Changes in Biological and Functional Integrity of Florida Lakes From Hydrological Alterations

12:30 PM - 2:00 PM

Speaker: Thomas J. Whitmore

Lessons From Streamflow Augmentation – Investigating the Drivers of Movement for Over-Summering Juvenile Steelhead and Coho Salmon in a Drying Stream

12:30 PM - 2:00 PM

Speaker: Gabriel Rossi

12:30 PM - 2:00 PM

Innovative and expanding collaborations between agencies and universities

Session Moderator: Luanne Steffy

Development of a Global Water Quality Information Portal

12:30 PM - 12:50 PM

Speaker: Steven Greb

Using the GeoEDF Geospatial Data Framework to Help Manage and Process Water Quality Data Flows

12:50 PM - 1:10 PM

Speaker: Jack Smith

Skipping the TMDL in Coastal South Carolina by Using Watershed-Based Management to Implement and Assess Fecal Bacteria Reduction Strategies

1:10 PM - 1:30 PM

Speaker: Susan Libes

Identifying a Biologically Relevant Data Signal for River Ecosystem Management

1:30 PM - 1:50 PM

Speaker: Emily Wefelmeyer

12:30 PM - 2:00 PM

Coordinated Monitoring Partnerships in the New York-New Jersey Harbor Estuary

Session Moderator: Evelyn Powers

Pathogen Testing in New York Harbor: How Community Scientists and Students Can Help to Fill Data Gaps in Sewage Contamination

12:30 PM - 2:00 PM

Speaker: Siddhartha Hayes

Engaging Partnerships in the New York-New Jersey Harbor Estuary: Environmental Monitoring Inventory and Interactive Map

12:30 PM - 2:00 PM

Speaker: Rosana Pedra Nobre

Expanding and Improving Water-Quality Data Collection in the Bronx and Harlem Rivers With Coordination Through the Urban Waters Federal Partnership

12:30 PM - 2:00 PM

Speaker: Shawn C. Fisher

IEC's Coordinated Volunteer Pathogen Monitoring Program

12:30 PM - 2:00 PM

Speaker: Jessica Bonamusa

The MST Partnership: Tracking Sources of Fecal Contamination in the Lower Passaic River Basin

12:30 PM - 12:30 PM

Speaker: Lavanya Ramasubramanian

2:30 PM - 4:00 PM

Identifying and Protecting our High-Quality Waters

Session Moderator: Kellie Merrell

Flip It Good!: Repurposing Nationally Available Tools for Healthy Watershed and High Quality Waters Protection Efforts in Wisconsin

2:30 PM - 2:50 PM

Speaker: Aaron Marti

Prioritizing the Protection of High Quality Rivers and Streams in Minnesota

2:50 PM - 3:10 PM

Speaker: John Genet

Using Combined Nutrient Criteria to Increase Protections for High Quality Waters Under Vermont's Water Quality Standards

3:10 PM - 3:30 PM

Speaker: Oliver Pierson

Informing High Quality Stream Assessment by Exploring the Temporal Variability in Macroinvertebrate Assemblages Across Biological Condition Gradient Tiers in Connecticut

3:30 PM - 3:50 PM

Speaker: Mary Becker

2:30 PM - 4:00 PM

Approaches for Protecting and Restoring Water Quality

Session Moderator: Sarah Lehmann

Collaborative Assessment of Wild and Scenic Rivers

2:30 PM - 4:00 PM

Speaker: Jenelle Dowling

Revisiting the Musconetcong River After Ten Years

2:30 PM - 4:00 PM

Speaker: Meiyin Wu, PhD

Do Clam Shells Reduce the Impacts of Stream Acidification in Eastern Maine?

2:30 PM - 4:00 PM

Speaker: Emily Zimmermann

Developing Protective Lake-Specific Numeric Nutrient Criteria Using Long-Term Monitoring Data

2:30 PM - 4:00 PM

Speaker: Nancy Schuldt

2:30 PM - 4:00 PM

Monitoring Coastal Acidification in Estuaries

Session Moderator: Nicholas Rosenau

Looking for Acidification Hot Spots in Greater Puget Sound

2:30 PM - 2:50 PM

Speaker: Micah Horwith

Informing Panhandle Estuary Programs: A Comprehensive Assessment of Watershed-Estuarine Water Quality Using Existing Nutrient Data

2:50 PM - 3:10 PM

Speaker: Haley Gancel

Expanding Coastal and Estuarine Acidification Monitoring in the Tampa Bay Region

3:10 PM - 3:30 PM

Speaker: Ed Sherwood

Addressing the Emerging Issue of Coastal Acidification in the Indian River Lagoon, Florida: The Indian River Lagoon Observatory Network of Environmental Sensors (IRLON)

3:30 PM - 3:50 PM

Speaker: M. Dennis Hanisak

2:30 PM - 4:00 PM

Estuaries

Session Moderator: Karen McLaughlin SAFE NMC (she/her)

Florida Panhandle Estuary Programs: A Partnership to Identify Resources and Quantify Impacts, Indicators, and Stressors

2:30 PM - 4:00 PM

Speaker: Amanda Croteau (she/her)

Long-Term Monitoring of Water Quality and Ecological Health in Narragansett Bay Following Wastewater Treatment Nutrient Reductions

2:30 PM - 4:00 PM

Speaker: Molly Welsh

Regional QAPPs Increase Access to Technical Support and Enhance Data Credibility

2:30 PM - 4:00 PM

Speaker: Julie Vastine

2:30 PM - 4:00 PM

Local, State, and Regional Uses of Community Collected Data

Session Moderator: Julie Vastine

Volunteer Water Monitoring in National Forests of Alabama

2:30 PM - 2:50 PM

Speaker: Mona Dominguez

Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network's Twenty-Two Years of Volunteer Sampling

2:50 PM - 3:10 PM

Speaker: Arielle Taylor-Manges (she/her)

Expanding Data Use Beyond the Original Intent on a Regional Scale

3:10 PM - 3:30 PM

Speaker: Liz Chudoba

STREAM: Combining Community-Based Water Monitoring and 21st Century Science

3:30 PM - 3:50 PM

Speaker: Catherine Paquette

2:30 PM - 4:00 PM

Local, State, and Regional Uses of Community Collected Data

Session Moderator: Julie Vastine

Working With State Partners to Use Volunteer Water Quality Data

2:30 PM - 4:00 PM

Speaker: Emily Bialowas

Post-fire Sampling for Downstream Water Impacts on the Arkansas River

2:30 PM - 4:00 PM

Speaker: Lisa Walters

Uses of Adopt-A-Stream Data: A Confluence Case Study

2:30 PM - 4:00 PM

Speakers: Bailey Crapps Sauls, Jenna Dodson

4:30 PM - 6:00 PM

Coastal data and approaches: Local to International

Session Moderator: Mari Nord, Linda Harwell, Marguerite Pelletier

From EMAP-Estuaries to the NCCA: The Evolution of Coastal Monitoring Programs at the US EPA

4:30 PM - 4:50 PM

Speaker: Hugh Sullivan

More Sites, More Indicators, or Both? A Summary of GLRI-Supported Enhancements and Intensifications to the National Coastal Condition Assessments of the Great Lakes

4:50 PM - 5:10 PM

Speaker: Matthew Pawlowski

A Tribal Program Evaluation of NCCA Collaboration

5:10 PM - 5:30 PM

Speaker: Margaret Watkins

The State of the Cartagena Convention Area: Pioneer Regional Collaborative Assessment of Marine Pollution From Land-Based Sources and Activities in the Wider Caribbean

5:30 PM - 5:50 PM

Speaker: Chris Corbin

4:30 PM - 6:00 PM

Expanding coastal monitoring approaches

Session Moderator: Hugh Sullivan, Marguerite Pelletier

Applying Great Lakes Coastal Assessment Approaches to Connecting River Systems: Context, Compromise, and Completeness

4:30 PM - 6:00 PM

Speaker: David Bolgrien

Village Blue Lake Pontchartrain

4:30 PM - 6:00 PM

Speaker: Diane Reese

Utilizing Existing Monitoring Data to Characterize Estuarine Habitat: A Conceptual Approach to Inform Restoration Prioritization and Effectiveness Assessments

4:30 PM - 6:00 PM

Speaker: Erin McCarthy

Using Collaborative Regional Surveys to Assess Ocean Acidification, Karen McLaughlin

4:30 PM - 6:00 PM

Speaker: Karen McLaughlin SAFE NMC (she/her)

4:30 PM - 6:00 PM

Improving analysis and interpretation of coastal data

Session Moderator: Hugh Sullivan, Mari Nord

Use of US EPA National Monitoring Data to Develop Tools and Provide Context and Improve Assessment of Local Estuaries

4:30 PM - 6:00 PM

Speaker: Marguerite Pelletier

Water Quality Data Synthesis of New England Coastal Waters for Social Science Endpoints

4:30 PM - 6:00 PM

Speaker: Nate Merrill

The Analysis Framework for Estuarine Characterization With Spatial and Seasonal Variations in the Continental US

4:30 PM - 6:00 PM

Speaker: Xiao Shen

Adapting EPA's National Coastal Condition Assessment Approach to Support Local Coastal Resource Management Using Secondary Data Sources

4:30 PM - 6:00 PM

Speaker: Linda Harwell

4:30 PM - 6:00 PM

Climatic drivers of long-term trends in regional ambient water quality

Session Moderator: Britta Bierwagen

Defining the Natural Lake Level Regime

4:30 PM - 4:50 PM

Speaker: Katie Hein

Trends in Water Quality in Relation to Predicted Climate Effects

4:50 PM - 5:10 PM

Speaker: Karen Ryberg

Hydrology of Annual Winter Water Level Drawdowns in Recreational Lakes of Massachusetts, USA

5:10 PM - 5:30 PM

Speaker: Allison Roy

Data-Driven Water Resource Management of Shared Waters in Delaware River Basin

5:30 PM - 5:50 PM

Speaker: Namsoo Suk

4:30 PM - 6:00 PM

Synergies between Climate and Natural Hazard Mitigation and Nonpoint Source Pollution

Session Moderator: Madeline Castro

Colorado's Fluvial Hazard Zone Mapping Program

4:30 PM - 6:00 PM

Speaker: Andrea Harbin Monahan

Quantitative Microbial Risk Assessment of Contaminated Private Wells Impacted by Hurricane Harvey Flooding

4:30 PM - 6:00 PM

Speaker: Anna Gitter

Leveraging Intersections: Integrating Watershed Management and Hazard Mitigation Planning to Combat Climate Change

4:30 PM - 6:00 PM

Speaker: Mahtaab Bagherzadeh

4:30 PM - 6:00 PM

Making all data matter: incorporating citizen science into decision making for improved water quality

Session Moderator: Pam DiBona, Matthew Liebman

Chattahoochee Riverkeeper Neighborhood Water Watch (CRK NWW): Making Actionable Quality Assured Data Useful to Municipalities and Relevant Entities in Order to Improve Waterway Health and Decrease Threats to Human Health Through Data Submission With EPA WQ

4:30 PM - 4:50 PM

Speaker: Mike Meyer

Using Technology for Volunteer Monitoring Programs: Facilitating Engagement and Data Use

4:50 PM - 5:10 PM

Speaker: Samantha Briggs

Understanding Sea Grant Community Science Programs and Their Impacts on Environmental Research and Decision-Making

5:10 PM - 5:30 PM

Speaker: Kristine Stepenuck

Publishing Volunteer Monitoring Data to the Water Quality Portal

5:30 PM - 5:50 PM

Speaker: Dwane Young

4:30 PM - 6:00 PM

Citizen Science

Session Moderator: Matt Bolt

Bridging Water Quality Data and Community-Based Monitoring Using Fuzzy Logic and Narrative

4:30 PM - 6:00 PM

Speaker: Kat Kavanagh

MS4 Permit Monitoring: A Community Effort

4:30 PM - 6:00 PM

Speaker: Jennifer Carey

Using Citizen Science to Examine Water Quality, Oyster Survival and Growth During Project Oyster Pensacola

4:30 PM - 6:00 PM

Speaker: Jane Caffrey

Co-designing Water Probes With Communities in Samaca-Colombia

4:30 PM - 6:00 PM

Speaker: Darwin Rodriguez

EnviroDIY: A Community for Do-It-Yourself Environmental Monitoring Using IoT Devices and FAIR Data Services

4:30 PM - 6:00 PM

Speaker: Scott Ensign

4:30 PM - 6:10 PM

Data Visualization

Session Moderator: Aaron Borisenko

Visualizing Watershed Management with the South Carolina Watershed Atlas

4:30 PM - 6:00 PM

Speaker: Amanda Ley

Democratizing GIS Land Cover Data for Community Science Monitors

4:30 PM - 6:00 PM

Speaker: Emily Wiggans

High Resolution NHD/NHDPlusHR Generalization for National, Regional, and Area-of-Interest Projects

4:30 PM - 6:00 PM

Speaker: Michelle (Shelly) Thawley

6:30 PM - 7:30 PM

Virtual Exhibition Happy Hour

7:30 PM - 8:30 PM

Volunteer Monitoring Meeting

Wednesday, April 21, 2021

7:00 AM - 7:00 AM

Fluid 5K Fun Run/Walk - Day 3

10:00 AM - 10:30 AM

Morning Yoga

Speakers: Julie Vastine, Kristen Parry

10:00 AM - 10:30 AM

Coffee Club

11:00 AM - 12:00 PM

NWQMC Topic Specific Networking Block

Networking Session Group 1

11:00 AM - 12:00 PM

Networking Session Group 2

11:00 AM - 12:00 PM

Networking Session Group 3

11:00 AM - 12:00 PM

Networking Session Group 4

11:00 AM - 12:00 PM

Networking Session Group 5

11:00 AM - 12:00 PM

12:00 PM - 12:10 PM

Yoga Stretch Break

Speaker: Kristen Parry

12:30 PM - 2:00 PM

Integrative Lake and Watershed Management

Session Moderator: Fred Lubnow

Magnitude of External Phosphorus Loading Likely Reduces Effectiveness of Aluminum Sulfate Treatments for Management of Sediment Phosphorus Flux

12:30 PM - 12:50 PM

Speaker: Abbie Lasater

A Public-Private Approach to Lake and Watershed Management in the Highlands Region of NJ

12:50 PM - 1:10 PM

Speaker: Christopher Mikolajczyk, CLM

Lake Management Under Severe Drought: Lake Mead, Nevada/Arizona

1:10 PM - 1:30 PM

Speaker: Deena Hannoun

Lake Apopka, Florida: Monitoring the Response of 20 Years of Restoration

1:30 PM - 1:50 PM

Speaker: Lori McCloud

12:30 PM - 2:00 PM

Using Big Data to Answer National- and Regional-Scale Water Quality Questions

Session Moderator: Victor Roland

NWQMC Water Quality Portal Progress and Status

12:30 PM - 12:50 PM

Speaker: James Kreft

Continuous Monitoring Stations in the Delaware River Basin for Understanding Individual Sites and Regional Patterns

12:50 PM - 1:10 PM

Speaker: David Bressler

Integration of Diverse, Regional-Scale Water Data for Water Quality Analysis and Predictions

1:10 PM - 1:30 PM

Speaker: Charuleka Varadharajan

Determining Representative National Surface Water Chemical Concentration Ranges for Risk Prioritization

1:30 PM - 1:50 PM

Speaker: Risa Sayre

12:30 PM - 2:00 PM

Using Big Data to Answer National- and Regional-Scale Water Quality Questions

Session Moderator: Jenny Murphy

“Teal Carbon” Stocks and Trends of Primary Production, Soil Organic Carbon and Decomposition in a Big Data Network of Taxodium distichum (Baldcypress) Swamps in the Southeastern US

12:30 PM - 2:00 PM

Speaker: Beth Middleton

DataStream: Towards an Open and Collaborative Freshwater Future

12:30 PM - 2:00 PM

Speaker: Mary Kruk

A Dynamic Inventory of Water Quality Data in the Arkansas River Basin, Colorado

12:30 PM - 2:00 PM

Speaker: Annie Berlemann

12:30 PM - 2:00 PM

Continuous Conundrum – Using Continuous Data in Water Quality Assessments

Session Moderator, Speaker: James Hagy

Relating Suspended Sediment Concentration, Duration, and Frequency to Stream Biotic Integrity

12:30 PM - 12:50 PM

Speaker: John Schwartz

From Condition Assessment to Mechanistic Understanding: Leveraging Continuous Sensor Data to Inform Nutrient Management in San Francisco Bay

12:50 PM - 1:10 PM

Speaker: Derek Roberts

Sample Design for Understanding Organic Carbon and Nitrogen Matter in the Barton Springs Segment of the Edwards Aquifer, Austin, Texas

1:10 PM - 1:30 PM

Speaker: Patricia Ging

Assessing Water Quality Status With a Combination of Discrete and Continuous Water Quality Monitoring Data

1:30 PM - 1:50 PM

Speaker: James Hagy

12:30 PM - 2:00 PM

Continuous Conundrum – Using Continuous Data in Water Quality Assessments

Session Moderator: James Hagy

Using Data Loggers to Monitor Stream Water Quality in the Piney Creek Watershed, Raleigh County, West Virginia

12:30 PM - 2:00 PM

Speaker: James Fedders

Impacts of Land Use and Impoundment Management on Water Quality in a Coastal River

12:30 PM - 2:00 PM

Speaker: Jessica Lee

Net Mercury Imports and Exports of Four Tidal Wetlands in the Sacramento Valley, California

12:30 PM - 2:00 PM

Speaker: Petra Lee (she/her)

2:30 PM - 4:00 PM

Historical changes in water quality: Scale and methodological insights and experiences across the US

Session Moderator: Gretchen Oelsner

An Approach for Decomposing River Water-Quality Trends Into Different Flow Classes

2:30 PM - 2:50 PM

Speaker: Qian Zhang

Temporal Trends in Surface Water Temperature in Multiple River Reaches Using Model-Based Adjustments for Confounders, Clustering and Endogeneity

2:50 PM - 3:10 PM

Speaker: Brian Gray

Comparative Analysis of Benthic Macroinvertebrate Communities and Water Quality Before and After Removal for the Penobscot River Restoration Project

3:10 PM - 3:30 PM

Speaker: Dan Kusnierz

Gauging the Health of Vermont Lakes Using 2007 and 2012 National Lake Assessment Findings

3:30 PM - 3:50 PM

Speaker: Leslie Matthews

2:30 PM - 4:00 PM

Historical changes in water quality: Scale and methodological insights and experiences across the US

Session Moderator: Gretchen Oelsner

Tracking Water Quality in US Streams and Rivers – The USGS National Water Quality Network

2:30 PM - 4:00 PM

Speaker: Casey Lee

Data Analysis With Nondetects: A Flyby of the NADA2 Package for R

2:30 PM - 4:00 PM

Speaker: Dennis Helsel

2:30 PM - 4:00 PM

Progress on Water Data Sharing: The Internet of Water and Related Approaches

Session Moderator: Peter Colohan

Navigating the Future with the National Hydrography Dataset

2:30 PM - 2:50 PM

Speaker: Karen Adkins

A Multi-Source Geomorphology Data Exchange Portal: Vision and Prototype

2:50 PM - 3:10 PM

Speaker: Molly Wood

Geoconnex

3:10 PM - 3:30 PM

Speaker: Kyle Onda

USGS Contributions to the Internet of Water

3:30 PM - 3:50 PM

Speaker: Emily Read (she/her)

2:30 PM - 4:00 PM

Progress on Water Data Sharing: The Internet of Water and Related Approaches

Session Moderator: Peter Colohan

Hydrographic Addressing on the National Hydrography Dataset

2:30 PM - 4:00 PM

Speaker: Michael Tinker

Internet of Water – Overview

2:30 PM - 4:00 PM

Speaker: Peter Colohan

Participatory Engagement

2:30 PM - 4:00 PM

Speaker: Ashley Ward

Internet of Water: What Does It Mean to EPA?

2:30 PM - 4:00 PM

Speaker: Dwane Young

Utilizing Machine Learning Techniques for Streamflow Prediction in Minnehaha Creek Watershed District

2:30 PM - 4:00 PM

Speaker: Brian Beck

2:30 PM - 4:00 PM

Continuous Monitoring of Fluorescence-Based Water-Quality Parameters: Recent Examples from a Variety of Aquatic Systems

Session Moderator: Amanda Booth

Sensors Informing Sensors: Using Sensor Networks and Laboratory Measurements to Improve Fluorescence Time-Series Data Accuracy

2:30 PM - 2:50 PM

Speaker: Alexandra Etheridge

Comparison of Multiple Spectrofluorometers used during High-Resolution Mapping Surveys in the Sacramento-San Joaquin River Delta

2:50 PM - 3:10 PM

Speaker: Emily Richardson

Refining Techniques for High-Frequency Monitoring of Chlorophyll a in the National Estuarine Research Reserve System

3:10 PM - 3:30 PM

Speaker: Silas Tanner

Implementation of fDOM Continuous Monitoring and Initial Observations in Groundwater in the San Antonio Segment of the Edwards Aquifer, Central Texas

3:30 PM - 3:50 PM

Speaker: Keith Mecum

2:30 PM - 4:00 PM

Continuous Monitoring of Fluorescence-Based Water-Quality Parameters: Recent Examples from a Variety of Aquatic Systems

Session Moderator: Steve Opsahl

Use of Fluorescence Sensors at Hydrologic Monitoring Stations and in Spatial Surveys in South Florida

2:30 PM - 4:00 PM

Speaker: Amanda Booth

High-Frequency Tracers of Recharge and Organic Carbon in Karst Groundwater: Edwards Aquifer, Central Texas

2:30 PM - 4:00 PM

Speaker: Marylynn Musgrove

fDOM in Groundwater: A Preliminary Assessment of Storm-Event Response in an Urban Karst Setting

2:30 PM - 4:00 PM

Speaker: Steve Opsahl

In situ Chlorophyll Fluorescence Study: Multiple Agency Sensor Comparisons in the Sacramento-San Joaquin River Delta

2:30 PM - 4:00 PM

Speaker: Elizabeth Stumpner

4:30 PM - 6:00 PM

Monitoring and modeling water quality in the Delaware River Basin

Session Moderator: Jenny Murphy

Forecasting Stream Temperature Using Data Assimilation in Support of Water Management Decisions

4:30 PM - 4:50 PM

Speaker: Jake Zwart (he/him)

Process-Guided Deep Learning for Improving Water Temperature Predictions in the Delaware River Basin

4:50 PM - 5:10 PM

Speaker: Samantha Oliver

Coupled Hydrodynamic and Water-Quality Models to Quantify the Impacts of Nutrient Loads on Dissolved Oxygen Dynamics in the Delaware Estuary

5:00 PM - 5:30 PM

Speaker: Vincent DePaul

Projecting Improvement From Agricultural BMPs and Other Conservation in the Delaware River Basin

5:30 PM - 5:50 PM

Speaker: Stefanie Kroll (she/her)

4:30 PM - 6:00 PM

Monitoring and modeling water quality in the Delaware River Basin

Session Moderator: Jenny Egan

Increases in Salinity, Decreases in Nutrients: Trends Using Multisource Water-Quality Data in the Delaware River Basin

4:30 PM - 6:00 PM

Speaker: Jenny Murphy

Modeling Microbial Water Quality in Response to Land Use and Identifying Hot Spots Prone to Fecal Contamination to Guide Future Restoration Directions

4:30 PM - 6:00 PM

Speaker: T. David Hsu

Stream Temperature and Conductivity Predictions in the Delaware River Basin Using Machine Learning Methods

4:30 PM - 6:00 PM

Speaker: Charuleka Varadharajan

Data-Driven Water Resource Management of Shared Waters in Delaware River Basin

4:30 PM - 6:00 PM

Speaker: Namsoo Suk

4:30 PM - 6:00 PM

The Monitoring and Assessment Data Life Cycle

Session Moderator: Wendy Reid

The Importance of Open Science for Biological Assessment of Aquatic Environments

4:30 PM - 4:50 PM

Speaker: Marcus Beck

An R Shiny Tool to Analyze Probability-Based Survey Data

4:50 PM - 5:10 PM

Speaker: Karen Blocksom

Extreme Automation of Water Quality Assessments Using an Open Source Approach

5:10 PM - 5:30 PM

Speaker: Jason Jones

Snohomish County's State of Our Waters Monitoring Program: An Improved Approach to Evaluating Watershed Health and Communicating Results

5:30 PM - 5:50 PM

Speaker: Janell Majewski

4:30 PM - 6:00 PM

Comparability: Challenges and Successes Integrating Biological Data

Session Moderator: Elizabeth Smith

Enhancing Benthic Macroinvertebrate Data Comparability in WQX

4:30 PM - 6:00 PM

Speaker: Jesse Boorman-Padgett

Strategies for Working With State and Tribal Macroinvertebrate Data Collected Using Different Methods in the Great Plains

4:30 PM - 6:00 PM

Speaker: Jen Stamp

Calibration of a Fish BCG Model for the Appalachian Mountains Following a Re-assignment of Fish Attributes

4:30 PM - 6:00 PM

Speaker: Lou

Multi-Metric Indicators for Assessing the Condition of Stream Diatom Communities Across the US

4:30 PM - 6:00 PM

Speaker: Daren Carlisle

Developing a Bird Integrity Index (BII) for Use as an Indicator of Stream Condition in the Northern Adirondack Park

4:30 PM - 6:00 PM

Speaker: Jesse Rock

The Stream Quality Index: A Multi-Indicator Tool for Enhancing Environmental Management Communication

4:30 PM - 6:00 PM

Speaker: Ken Schiff

4:30 PM - 6:00 PM

Next-generation water-quality network operation and methods development: tools and best practices

Session Moderator: Alexandra Etheridge

Supporting Innovation Through Industry Engagement: Lessons Learned From the USGS Next Generation Water Observing System (NGWOS)

4:30 PM - 4:50 PM

Speaker: Brian Pellerin

Techniques for Increased Automation of Aquatic Sensor Data Post Processing in Python

4:50 PM - 5:10 PM

Speaker: Amber S Jones

What is the Quality of Your (Continuous) Water Quality Data?

5:10 PM - 5:30 PM

Speaker: Leah Ettema

Planning and Implementation of the USGS Next Generation Water Observing System (NGWOS)

5:30 PM - 5:50 PM

Speaker: Chad Wagner

4:30 PM - 6:00 PM

Tools for Decision Making

Session Moderator: Tim Asplund

Planning, Managing and Optimizing River and Lake Monitoring Programs: Participative Approaches; Data Management Tools and Intelligent Decision Support Systems

4:30 PM - 6:00 PM

Speaker: Sonja Behmel

Assessing Commercially Available Phosphorus Analyzers for Use in Monitoring Surface Waters

4:30 PM - 6:00 PM

Speaker: Colin Peake

spsurvey R Package: New Options and Changes for Selecting and Analyzing Probability Samples

4:30 PM - 6:00 PM

Speaker: Michael Dumelle

5:00 PM - 6:00 PM

National Water Quality Initiative: Successes, Monitoring, Partnerships, and Beyond

Using a Watershed Modelling Approach to Identify Potential Sources of Nutrient, Sediment and Pathogen Pollution for Strategic Planning and Outreach in a Multi-Use Watershed

5:00 PM - 6:00 PM

Speaker: Nichole Embertson

5:00 PM - 6:00 PM

Contaminants of Emerging Concern

Session Moderator: Mary Giorgino

Evaluation of Microplastic Entrainment Along a Municipal Water Delivery Route with Silicon Nanomembrane Technology

5:00 PM - 6:00 PM

Speaker: Greg Madejski

The first comprehensive chemical and biological characterization of wastewater from food, beverage, and feedstock facilities across the United States

5:00 PM - 6:00 PM

Speaker: Laura Hubbard

Microbial Wastewater Exposures From Commercial Food, Beverage, and Feedstock Processing Facilities and Implications for Environmental Health

5:00 PM - 6:00 PM

Speaker: Carrie Givens

Using Chemical and Biological Markers to Trace Sources of Anthropogenic Contamination During Storm Events in the San Diego River

5:00 PM - 6:00 PM

Speaker: Frederick Pinongcos

5:00 PM - 6:00 PM

Fate and Effects of PFOS and novel AFFF Compounds in the Aquatic Environment

Session Moderator: Ed Wirth

Ecotoxicity of Perfluorooctane Sulfonate and Fluorine-Free Fire Fighting Foams to Estuarine Organisms

5:00 PM - 6:00 PM

Speaker: Pete Key

PFAS and Other Contaminants of Emerging Concern in the Bronx River, New York City, New York

5:00 PM - 6:00 PM

Speaker: Irene Fisher

Initial State-Wide Survey Results From the Wisconsin Department of Natural Resources (WDNR) Per- and Poly-Fluorinated Alkyl Substances (PFAS) Monitoring of Surface Water and Fish Tissue

5:00 PM - 6:00 PM

Speaker: Patrick Gorski

Evaluation of Passive Sampling Methods for Detecting PFAS Contamination in New Jersey Groundwater

5:00 PM - 6:00 PM

Speaker: Molly Schreiner

6:30 PM - 7:30 PM

Poster Happy Hour

Microplastics in the Passaic River – Evaluation Methods and Community Connections

6:30 PM - 7:30 PM

Speaker: Sandra LaVigne

Microbial Source Tracking and Escherichia coli Monitoring in the Rio Grande in the South Valley, Albuquerque, New Mexico

6:30 PM - 7:30 PM

Speaker: Rebecca Travis

Monitoring National Coastal Condition Assessment Survey Updates and COVID-19 Guidance Using an Interactive ArcGIS Dashboard

6:30 PM - 7:30 PM

Speaker: Gabriella DiPreta

An Evaluation of SPATT Technology to Assess Cyanotoxins Variability and Transport in the Salem River, New Jersey

6:30 PM - 7:30 PM

Speaker: Heather Heckathorn

Long-Term Influence of River Alkalinity Inflow on Alkalinity of the Sabine-Neches Estuary

6:30 PM - 7:30 PM

Speaker: Larissa Dias

Constructing an Evaluation “Toolbox” for Fecal Bacteria Analysis

6:30 PM - 7:30 PM

Speaker: Meg Harris

Cyanobacterial Harmful Algal Blooms Management at a New Jersey Drinking Water Reservoir

6:30 PM - 7:30 PM

Speaker: Meiyin Wu, PhD

Data Check: Ensuring the Quality of Continuous Dissolved Oxygen Water Monitoring Data

6:30 PM - 7:30 PM

Speaker: Esther Nelson

Citizen Science for Water Quality in Galveston Bay

6:30 PM - 7:30 PM

Speaker: Charlotte Cisneros

Statistical Methods in Water Resources: New Edition Now Available Online and in Print

6:30 PM - 7:30 PM

Speaker: Karen Ryberg

Spatial and Temporal Variability of Nutrients and Algae in a Midwestern Reservoir Affected by Harmful Algal Blooms, 2017–2018

6:30 PM - 7:30 PM

Speaker: Brianna Leiker

Appraising Issues in Water Resources Use Among Nations in the West African Region

6:30 PM - 7:30 PM

Speaker: Edmund Merem

Comparing Stratified-Random, Probabilistic Sites to Non-random, Targeted Sites in Oklahoma's Nonpoint Source Stream Monitoring Program

6:30 PM - 7:30 PM

Speaker: Joseph Dyer

USGS Data Collection Needs and Abilities During Rapid Response Events

6:30 PM - 7:30 PM

Speaker: Joe Levitt

In-situ Measurement of Sediment Oxygen Demand Using Optical Dissolved Oxygen Sensors in Four New Jersey USA Waterbodies

6:30 PM - 7:30 PM

Speaker: Heather Heckathorn

Los Angeles River Watershed Monitoring Program

6:30 PM - 7:30 PM

Speaker: Courtney Bonilla

Comprehensive Environmental Monitoring in a Rapidly Changing Estuary

6:30 PM - 7:30 PM

Speaker: Karen Cortes

Use of a Molecular (DNA) Based Technology (Real Time PCR) That Detects and Quantifies the Presence of Cyano-Bacteria and Their Toxin Producing Genes in Environmental Samples to Screen for Cyanotoxin Risk

6:30 PM - 7:30 PM

Speaker: Greg Ford

Benefits of Aerial Photography in Support of Water Quality Monitoring and Citizen Scientists in Puget Sound. Eyes Over Puget Sound (EOPS)

6:30 PM - 7:30 PM

Speaker: Elisa Rauschl

An Evaluation of Mercury and Selenium Fish Tissue Monitoring Alternatives: Fish Biopsy Plug Samples Versus Homogenized Whole Fillets

6:30 PM - 7:30 PM

Speakers: Leanne Stahl, Leanne Stahl, John Healey

Quantification of Microplastics and Other Synthetic Particles in the Severn River and Chesapeake Bay

6:30 PM - 7:30 PM

Speaker: Mary McClellan Hess

Extrapolation of Groundwater Ages to Regional Spatial Scales to Aid Monitoring of Water-Quality Degradation

6:30 PM - 7:30 PM

Speaker: Kirsten Faulkner

Understanding Recreation Along the Los Angeles River Using Social Media Data

6:30 PM - 7:30 PM

Speaker: Yareli Sanchez

Light Attenuation and Erosion Characteristics of Fine Sediments in a Highly Turbid, Shallow, Great Basin Lake

6:30 PM - 7:30 PM

Speaker: Cassandra Smith

Seasonal Hypoxia Associated With the Salt Wedge in the Pawcatuck River Estuary

6:30 PM - 7:30 PM

Speaker: Theresa Armijo

Leveraging the University Experience to Benefit Community Nonprofits

6:30 PM - 7:30 PM

Speaker: Kelley Flaherty

Trace Element Accumulation and Distribution in Two Turtle Species, *Malaclemys terrapin* and *Chelydra serpentina* in New Jersey, USA

6:30 PM - 7:30 PM

Speaker: Molly Hillenbrand

Aluminum Toxicity and Sources of Aluminum Along the Florida River, Colorado

6:30 PM - 7:30 PM

Speaker: Erin Gray

Development of Updated Salinity Monitoring Techniques in the San Francisco Bay/Sacramento-San Joaquin Delta Estuary

6:30 PM - 7:30 PM

Speaker: Anna Conlen

Integrating High-Resolution Coastal Acidification Monitoring Data Across Seven US EPA National Estuary Programs (NEPs)

6:30 PM - 7:30 PM

Speaker: Nicholas Rosenau

7:30 PM - 8:30 PM

360 Mingle and Mentoring for Young or New Water Quality Professionals w/ Senior or Experienced Professionals

Thursday, April 22, 2021

7:00 AM - 7:00 AM

Fluid 5K Fun Run/Walk - Day 4

10:00 AM - 10:30 AM

Morning Yoga

Speakers: Kristen Parry, Julie Vastine

10:00 AM - 10:30 AM

Coffee Club

11:00 AM - 12:30 PM

Building Credibility in Community-based Monitoring Programs

Session Moderator: Julie Vastine

Increasing Credibility of Community-Based Data

11:00 AM - 11:20 AM

Speaker: Liz Chudoba

Beyond Biweekly Sampling: Leveraging Volunteer Monitoring Programs into Successful Illicit Discharge Investigations

11:20 AM - 11:40 AM

Speaker: Victoria Green

Volunteer Collected Water Quality Data Can Be Used for Science and Management

11:40 AM - 12:00 PM

Speaker: Mark Hoyer

Water Quality Monitoring Data Comparability: Texas Stream Team Citizen Scientist vs. Professional

12:00 PM - 12:20 PM

Speaker: Sandra Arismendez

11:00 AM - 12:30 PM

Growing Grass Roots Volunteer Water Quality Monitoring Programs

Session Moderator: Sierra Hylton

Citizen Science Monitoring on Thornton Creek in Seattle

11:00 AM - 12:30 PM

Speaker: Gary Olson

Initiating a Citizen Science Monitoring Program for Freshwater Mussels

11:00 AM - 12:30 PM

Speaker: Thomas Tissue

Closing the Gap between Community Science Data and the Governments Information Needs

11:00 AM - 12:30 PM

Speaker: Barb Horn (she/her) living on S. Ute Lands

Citizen Science in Severn Sound – Assessing Program Success

11:00 AM - 12:30 PM

Speaker: Aisha Chiandet

Building an Effective Monitoring Collaboration in the Piney Creek Watershed of West Virginia

11:00 AM - 12:30 PM

Speaker: Matthew Williams

Maximizing Data Use From the Local to Regional Levels

11:00 AM - 12:30 PM

Speaker: Stephanie Letourneau

Three Approaches to Volunteer Water Quality Monitoring in the Charles River Watershed, Massachusetts

11:00 AM - 12:30 PM

Speaker: Lisa Kumpf (she/her)

11:00 AM - 12:30 PM

Our aquatic ecosystems: how can we better assess and manage them in an integrated way

Session Moderator: Sarah Lehmann

Development of an Arid West Regional Streamflow Duration Assessment Method (SDAM)

11:00 AM - 11:20 AM

Speaker: Julie Kelso

Freshwater Scientist and Practitioner Perceptions of Blackwater Streams and Rivers in the United States

11:20 AM - 11:40 AM

Speaker: Karen Blocksom

Prediction of Recreational Water Safety Using Escherichia coli as an Indicator: Case Study of the Passaic and Pompton Rivers, New Jersey

11:40 AM - 12:00 PM

Speaker: Alessandra Rossi, Ph.D.

One Sample Is Enough – Temporal Variability in Water Chemistry in Lakes, Streams, Rivers, Wetlands and Near Coastal Systems Across the Conterminous United States

12:00 PM - 12:20 PM

Speaker: Alan Herlihy

11:00 AM - 12:30 PM

Diverse Approaches for Evaluating Aquatic Ecosystems

Session Moderator: Gregg Serenbetz

The Use of Multiscale Stressors With Biological Condition Assessments: A Framework to Advance the Assessment and Management of Streams

11:00 AM - 12:30 PM

Speaker: Luisa Riato

Development of Regional Streamflow Duration Assessment Methods (SDAMs) for the United States: Collaborative Intensification Studies

11:00 AM - 12:30 PM

Speaker: Tracie-Lynn Nadeau

Updated Freshwater Probabilistic Monitoring Integrated Report in Virginia – Beyond Statewide Reporting of Condition Estimates

11:00 AM - 12:30 PM

Speaker: Jason Hill

11:00 AM - 12:30 PM

Advances in Harmful Algal Bloom Monitoring, Prediction, and Forecasting

Session Moderator: Christopher Churchill

Satellite Based Earth-Observation Monitoring of Harmful Algal Blooms in Texas

11:00 AM - 11:20 AM

Speaker: Victoria Stengel

The Use of Imaging Flow Cytometry for Algal Monitoring and Classification

11:20 AM - 11:40 AM

Speaker: Ann St. Amand

Near Real-Time Monitoring of Cyanobacterial Blooms in Drinking Water Supply Reservoirs Using Satellite Data

11:40 AM - 12:00 PM

Speaker: Seyoum Gebremariam

Development, Challenges, and Logistics of Moored Multi-Sensor Water Quality Stations for Cyanobacterial Harmful Algal Bloom Monitoring and Research on the New York Finger Lakes

12:00 PM - 12:20 PM

Speaker: Kaitlyn Finkelstein

11:00 AM - 12:30 PM

Advances in Harmful Algae Bloom Monitoring, Prediction, and Forecasting

Session Moderator: Christopher Churchill

Proactive HAB Monitoring to Tackle Taste and Odor Events

11:00 AM - 12:30 PM

Speaker: Hunter Adams

Marine and Freshwater HAB Monitoring Using the FlowCam®

11:00 AM - 12:30 PM

Speaker: Savannah Judge

12:30 PM - 12:40 PM

Yoga Stretch Break

Speaker: Kristen Parry

1:00 PM - 2:30 PM

Regional Monitoring Programs in an Era of Shifting Baselines

Session Moderator: Karen McLaughlin SAFE NMC (she/her)

Streamflow and Concentrations and Loads of Nutrients and Sediment in the Western Lake Erie Basin — Contrasting Results for Two Years (2018–2019) After Distinctly Different Climatic Conditions Led to Conversion to Fallow Lands

1:00 PM - 1:20 PM

Speakers: Kimberly Shaffer, Matthew Hardebeck

A Phase Space Approach to Understanding Water Quality Resilience to Agricultural Nutrient Management Interventions Under Future Climate Scenarios

1:20 PM - 1:40 PM

Speaker: Elizabeth Doran

International Red River of the North Basin: How Have Historical Water-Quality Conditions Changed Through Time and Space?

1:40 PM - 2:00 PM

Speaker: Rochelle Nustad

Bivalves and Their Remains as Taxonomic Surrogates of the Macroinvertebrate Community Through Time: Tests From and Urban Shelf in Southern California

2:00 PM - 2:20 PM

Speaker: Broc Kokesh

1:00 PM - 2:30 PM

Monitoring for Decision Making

Session Moderator: Monty Porter

Nutrient Limitation of Phytoplankton in Chesapeake Bay: Development of an Empirical Approach for Water-Quality Management

1:00 PM - 2:30 PM

Speaker: Qian Zhang

Water Resource Monitoring of the Central Pine Barrens Region of Long Island, New York

1:00 PM - 2:30 PM

Speaker: Banu Bayraktar

Monitoring Strategies to Assess Compounding Fire Impacts on Surface Water Quality, Microbial Diversity, and Watershed Hydrological Connectivity

1:00 PM - 2:30 PM

Speaker: Michelle Newcomer

Multidisciplinary Approach to Bacterial TMDL Analyses

1:00 PM - 2:30 PM

Speaker: Akin Babatola

1:00 PM - 2:30 PM

Assessing and evaluating practices and approaches to address urban NPS pollution

Session Moderator: Robert Traver, Sequoya Bua-lam

Monitoring Infiltration Rates of Coastal Low Impact Development (LID) Practices in Georgia

1:00 PM - 1:20 PM

Speakers: Veronica Craw, Jessica Brown

Can Outreach Really Change Behaviors and Reduce Phosphorus Pollution? LakeWise – a case study

1:20 PM - 1:40 PM

Speaker: Marisa Burghdoff

Linking Land Use to Water Quality Changes in Charleston, South Carolina Tidal Creeks

1:40 PM - 2:00 PM

Speaker: Andrew Tweel

Synthetic Runoff Testing to Quantify Streetside Stormwater Planter Performance

2:00 PM - 2:20 PM

Speaker: Jon Novick

1:00 PM - 2:30 PM

Assessing and evaluating practices and approaches to address urban and agricultural NPS pollution

Session Moderator: Cyd Curtis

Dry Weather Water Quality and Mass Loadings of Urban Runoff in the Las Vegas Valley Watershed, Las Vegas, Nevada

1:00 PM - 2:30 PM

Speaker: Xiaoping Zhou

Improving Conservation Practice Implementation Using Edge of Field Monitoring Results to Better Understand Surface Runoff Characteristics and Triggers in Maritime Climates

1:00 PM - 2:30 PM

Speaker: Scarlett Graham

Local Livestock Operators Help Restore Water Quality in a Segment of the Middle Fork Popo Agie River, Wyoming

1:00 PM - 2:30 PM

Speaker: Dave Morneau

1:00 PM - 2:30 PM

Harmful Algal Blooms

Session Moderator: Jack Szczepanski, PhD

Tracking Cyanobacteria Blooms in Southeastern US Lakes Using CyAN Imagery

1:00 PM - 1:20 PM

Speaker: Jon Becker & Chris McArthur

Harmful Algal Bloom Monitoring in a Large State With > 11,000 Inland Lakes

1:20 PM - 1:40 PM

Speaker: Aaron Parker

Temporal Dynamics of Cyanobacteria Blooms in Three Rhode Island Ponds

1:40 PM - 2:00 PM

Speaker: Stephen Shivers

Using Fluorescence Sensors for Cyanobacteria Bloom Detection: Lessons Learned from Moored Multi-Sensor Water Quality Stations for Cyanobacterial Harmful Algal Bloom Monitoring and Research on the New York Finger Lakes

2:00 PM - 2:20 PM

Speaker: Sabina Perkins (she/her)

1:00 PM - 2:30 PM

Harmful Algal Blooms

Session Moderator: Fred Lubnow

The CyanoLakes Satellite Remote Sensing Application

1:00 PM - 2:30 PM

Speaker: Mark Matthews

Assessing Efficacy of Solid Phase Adsorption Toxin Trackers (SPATTs) and Diffusive Gradients in Thin Films (DGT) Samplers as Indicators of the Presence of Cyanotoxins in the New York Finger Lakes

1:00 PM - 2:30 PM

Speaker: Michael Stouder

An Assessment of Cyanobacteria and Cyanotoxins in Drinking Water Sources of New Jersey

1:00 PM - 2:30 PM

Speaker: Yari Acosta Caraballo

3:00 PM - 4:30 PM

Regional and national monitoring of status and trends in groundwater quality

Session Moderator: Bruce Lindsey

Pesticides and Pesticide Degradates in Groundwater Used for Public Supply Across the United States: Occurrence and Human-Health Context

3:00 PM - 3:20 PM

Speaker: Laura Bexfield

Concentrations of Radon-222 Correlate with those of Lead-210 in Oxygenated Groundwaters in Most of the Surveyed USA Aquifers, Especially in the Appalachian Piedmont and Blue Ridge

3:20 PM - 3:40 PM

Speaker: Zoltan Szabo

Groundwater Development Leads to Decreasing Arsenic Concentrations in the San Joaquin Valley, California

3:40 PM - 4:00 PM

Speaker: Emily Haugen

Arsenic Variability and Trend Influences Indicated With High-Frequency and Bi-Monthly Data at Three Water-Supply Wells in New Hampshire

4:00 PM - 4:20 PM

Speaker: James Degnan

3:00 PM - 4:30 PM

Regional and national monitoring of status and trends in groundwater quality

Session Moderator: Bruce Lindsey

Pesticides and Their Degradates in Shallow Groundwater in Relation to Land Use and Pesticide Management, Long Island, New York

3:00 PM - 4:30 PM

Speaker: Irene Fisher

Chloride Concentrations in Domestic Wells and Proximity to Roadways in Vermont, 2011–2018

3:00 PM - 4:30 PM

Speaker: Sille Larsen

Characterization and Statistical Analysis of an Ambient, Fixed-Station Groundwater Monitoring Network in Pennsylvania

3:00 PM - 4:30 PM

Speaker: Matthew Conlon

A Water-Resource and Road-Condition Monitoring Study of Alternative Treatments for Road Deicing

3:00 PM - 4:30 PM

Speaker: Natasha Scavotto

Short-Term Changes in Groundwater Quality: National Enhanced Trends Network

3:00 PM - 4:30 PM

Speaker: Joe Levitt

Widespread Drinking Water Contamination by Road Salt in the Adirondack Park, New York

3:00 PM - 4:30 PM

Speaker: Daniel Kelting

Statewide Assessment of Per- and Polyfluoroalkyl Substances in Surface Water and Groundwater of New Mexico

3:00 PM - 4:30 PM

Speaker: Kimberly Beisner

3:00 PM - 4:30 PM

Assessing and evaluating practices and approaches to address resource extraction and Acid Mine Drainage

Session Moderator: Timothy Craddock, Sequoya Bua-lam

Water Quality Restoration in Maryland Streams Impacted by Acid Mine Drainage

3:00 PM - 3:20 PM

Speaker: Jeff White

Acid Mine Drainage Quantification Issues in West Virginia

3:20 PM - 3:40 PM

Speaker: Martin Christ

Continuous Monitoring and Alert Notification Network: A Tool for Detecting and Notifying Agencies of Water Quality Hazards

3:40 PM - 4:00 PM

Speaker: Matthew Storosh

Monitoring the Effectiveness of CSO Abatement on Estuarine Water Quality

4:00 PM - 4:20 PM

Speaker: Eliza Moore (she/her)

3:00 PM - 4:30 PM

Harmful Algal Blooms

Session Moderator: Christopher Mikolajczyk, CLM

Downstream Production, Persistence, and Potential Transport of Cyanobacteria and Cyanotoxins in the Raritan Basin Water Supply Complex, New Jersey, USA

3:00 PM - 3:20 PM

Speaker: Heather Heckathorn

Dealing With HABs at Greenwood Lake - Recent Seasons and the Future

3:20 PM - 3:40 PM

Speaker: Jack Szczepanski, PhD

The Biology, Monitoring and Management of HABs in Lake Hopatcong, New Jersey

3:40 PM - 4:00 PM

Speaker: Fred Lubnow

A Survey of the Geographical Extent of Cyanotoxins in the Upper Midwest

4:00 PM - 4:20 PM

Speaker: Hayley Olds

4:00 PM - 5:00 PM

Machine learning to characterize groundwater quality from catchment to continental scales

Session Moderator: Paul Stackelberg

What Can We Learn From Groundwater Models?

4:00 PM - 5:00 PM

Speaker: Jeff Starn

Sensitivity Analysis of Features in a Boosted Regression Tree Model: pH of Groundwater in the Glacial Aquifer System

4:00 PM - 5:00 PM

Speaker: Paul Stackelberg

Machine Learning Prediction of Nitrate in Groundwater Across the Conterminous United States with Estimated at Risk Population

4:00 PM - 5:00 PM

Speaker: Katherine Ransom

4:00 PM - 5:00 PM

Method Development

Session Moderator: Danielle Grunzke

Incorporating Spatial Dependence and Beta Diversity to Improve Bioassessments and Clean Water Act Management

4:00 PM - 5:00 PM

Speaker: Michael Shupryt

Spatial Variation and Holding Time Effects on Escherichia coli in Oklahoma Wadeable Streams

4:00 PM - 5:00 PM

Speaker: Daniel Dvoretz

Birds as a Window on the Health of Boreal Wetlands: Long-Term Monitoring in the Adirondack Park, New York

4:00 PM - 5:00 PM

Speaker: Michale Glennon

Groundwater-Surface Water Interactions: Fate & Transport of Inorganic Constituents at Coal-Fired Power Plants

4:00 PM - 5:00 PM

Speaker: Jeff Thomas*, Bruce Hensel*, and Tim Towey**

Slow Progress With Quicksilver: Lowering Fish Mercury in Mine Impacted Reservoirs Using Hypolimnetic Oxygenation

4:00 PM - 5:00 PM

Speaker: Elisabeth Wilkinson

5:00 PM - 7:00 PM

Plenary/Awards/Closing Ceremony

Plenary Speaker: Crystal Ng

Awards

5:00 PM - 6:30 PM

Acknowledgements

5:00 PM - 6:30 PM

Friday, April 23, 2021

7:00 AM - 7:00 AM

Fluid 5K Fun Run/Walk - Day 5

11:00 AM - 12:30 PM

JEDI Meeting

Session Moderator: Sylvia Lee ; Session Co-Moderator: Barb Horn (she/her) living on S. Ute Lands

11:00 AM - 12:30 PM

Workshop: Water Quality eXchange & Water Quality Portal Training

Speaker: Dwane Young

11:00 AM - 12:30 PM

Panel Discussion: Coordinated Monitoring Partnerships in the Greater New York-New Jersey Harbor Estuary—An expanded look at shared goals and outcomes

Session Moderator: Shawn C. Fisher

Shawn Fisher

11:00 AM - 12:30 PM

Speaker: Shawn C. Fisher

Rosana Da Silva

11:00 AM - 12:30 PM

Speaker: Rosana Pedra Nobre

Jessica Bonamusa

11:00 AM - 12:30 PM

Speaker: Jessica Bonamusa

Siddhartha Hayes

11:00 AM - 12:30 PM

Speaker: Siddhartha Hayes

1:00 PM - 2:30 PM

Workshop: Interpretation and communication techniques for monitoring data

Speaker: Caroline Donovan

1:00 PM - 2:30 PM

Panel Discussion: Evaluating potential biological effects of chemicals detected in multiple environmental media using ToxCast high-throughput screening results

Session Moderator: Steven Corsi

Laura DeCicco

1:00 PM - 2:30 PM

Speaker: Laura DeCicco

Luke Loken

1:00 PM - 2:30 PM

Speaker: Luke Loken

Milo de Baat

1:00 PM - 2:30 PM

Speaker: Milo de Baat

Ruth Sofield

1:00 PM - 2:30 PM

Speaker: Ruth Sofield

Paul Bradley

1:00 PM - 2:30 PM

Speaker: Paul Bradley

Daniel Villeneuve

1:00 PM - 2:30 PM

Speaker: Daniel Villeneuve

1:00 PM - 2:30 PM

Workshop: NMC Transform Your Hidden Racial Bias Workshop (Session 3)

Speaker: Barb Horn (she/her) living on S. Ute Lands

3:00 PM - 4:30 PM

Workshop: Chiques Creek Watershed Report Card – Case Study for a data-driven approach to project prioritization

Speakers: Laurel Etter Longenecker, Mike LaSala

3:00 PM - 4:30 PM

Panel Discussion: dataRetrieval: Success Stories and Future Enhancements

Session Moderator: Candice Hopkins (she/her)

Laura DeCicco

3:00 PM - 4:30 PM

Speaker: Laura DeCicco

John Mullaney

3:00 PM - 4:30 PM

Speaker: John Mullaney

Samantha Oliver

3:00 PM - 4:30 PM

Speaker: Samantha Oliver

Tim Stagnitta

3:00 PM - 4:30 PM

Speaker: Tim Stagnitta

Michelle Thawley

3:00 PM - 4:30 PM

Speaker: Michelle (Shelly) Thawley

3:00 PM - 4:30 PM

Panel Discussion: DNA Data Acceptability Criteria for Biological Condition Assessments

Session Moderator: Mark Bagley

Richard Mitchell

3:00 PM - 4:30 PM

Speaker: Richard Mitchell

John Darling

3:00 PM - 4:30 PM

Speaker: John Darling

Erik Pilgrim

3:00 PM - 4:30 PM

Speaker: Erik Pilgrim

Aaron Maloy

3:00 PM - 4:30 PM

Speaker: Aaron Maloy

Taylor Wilcox

3:00 PM - 4:30 PM

Speaker: Taylor Wilcox

eDNA and ecosystem observation: can we trust the data?

3:00 PM - 4:30 PM

Speaker: Donald Baird

Sarah Spaulding

3:00 PM - 4:30 PM

Speaker: Sarah Spaulding

DNA metabarcoding for diatom bioassessment: examples and lessons from USGS NAWQA

3:00 PM - 4:30 PM

Speaker: Nick Schulte (he/him)

Thomas Greig

3:00 PM - 4:30 PM

Speaker: Thomas Greig

Eric Stein

3:00 PM - 4:30 PM

Speaker: Eric Stein

Susanna Theroux

3:00 PM - 4:30 PM

Speaker: Susanna Theroux

A Canadian perspective on moving towards standardization for DNA data to inform management (Cathryn Abbott)

3:00 PM - 4:30 PM

Speaker: Cathryn Abbott

Florian Leese

3:00 PM - 4:30 PM

Speaker: Florian Leese

Agnès Bouchez

3:00 PM - 4:30 PM

Speaker: Agnès Bouchez

Mark Bagley

3:00 PM - 4:30 PM

Speaker: Mark Bagley