

2020 Northeast Aquatic Biologists Conference

The Newport Harbor Hotel & Marina – Newport, Rhode Island
March 4-6, 2020

WEDNESDAY, MARCH 4, 2020

11:00 REGISTRATION OPENS

1:00-2:30 CONCURRENT SESSIONS 1

VOLUNTEER MONITORING

GOOSEBERRY ROOM

(Moderator:

Ryan O'Donnell, Connecticut River Conservancy

Samplepooza! A Collaborative, One-Day, Synoptic Nutrient Monitoring Event in the Connecticut River Watershed

Ted Walsh, NH DES

Using Volunteer Water Quality Monitoring Data for Clean Water Act Assessments, Confirmation Monitoring and Long-Term Trend Monitoring

Kirsten Nelson, NH DES

Trends in New Hampshire's Water Quality

MODELING FOR CWA ASSESSMENTS

EASTON'S ROOM

(Moderator: Brian Duffy)

Allison Watts, University of New Hampshire

David Neils, NH DES

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

Rosemary Gatter-Evarts, CT DEEP

Modeled Water Quality Criteria, Are They Protective?

Tom Danielson, ME DEP

Bioassessment Model for Phytoplankton

CONTAMINANTS

MARINE SUITE

(Moderator: Jane Sawyers)

Meghan Lally, CT DEEP

Preliminary Efforts to Characterize PFAS Levels in Connecticut Surface Waters

Natalie Cheung, USGS

Microplastics in Urban Streams of the Northeast Region—A Pilot Study to Assess Conditions across USGS Water Quality Networks

Stephanie Wasiczko, Clark University

The Effects of Petroleum and Biodiesel on Daphnia magna while Surveying Public Outlooks Surrounding Water Pollution

2:30-3:00

BREAK

3:00-5:00 CONCURRENT SESSIONS 2

INNOVATIVE HABS MONITORING

GOOSEBERRY ROOM

(Moderator:

Jean Pillo, Eastern Connecticut Conservation Districts

Monitoring for Harmful Algae Blooms Using Citizen Scientists

Anthony Prestigiacamo, NYS DEC

An Evaluation of the Fluoroprobe® for the Management of New York State Lakes

Jennifer Graham, USGS

Solid Phase Adsorption Toxin Trackers (SPATTs) and Diffusive Gradients in Thin Films (DGT) Samplers for Characterizing Cyanotoxins in Freshwater

Darryl Keith, US EPA

Brian Zalewsky, RI DEM

Monitoring of Cyanobacteria in Rhode Island Lakes and Ponds Using the Sentinel 2 Spacecraft

RIVER WATER QUALITY MONITORING

EASTON'S ROOM

(Moderator:

Tom Danielson, ME DEP

Managing Time Series Data, Creating Plots, and Running R Code with WRDB

Brittney Izbicki, USGS

Dissolved Oxygen Monitoring in Support of Determining Biological Response to Phosphorous Loading in Streams

David Neils, NH DES

Status and Trends of Water Quality Indicators for New Hampshire's River Monitoring Network

Jon Morrison, USGS

Recent Developments in Connecticut River Monitoring by USGS

RIVER CONNECTIVITY & DAM REMOVAL

MARINE SUITE

(Moderator:

Nicole Lineberry, RI DOT

William Guenther, Fuss & O'Neill

RIDOT Road-Stream Crossing Assessment Handbook

Megan Lung, NEIWPCC Hudson River Estuary Program

Assessment to Action: Reconnecting Aquatic Habitat through Resilient Infrastructure

Katherine Abbott, UMass Amherst

Thermal and Dissolved Oxygen Recovery Following Small Dam Removals in Massachusetts

Katie Friedman, NYC Department of Parks and Recreation

Restoring Alewife River Herring to the Bronx River, NYC

5:30

EVENING SOCIAL :

BRICK ALLEY PUB & RESTAURANT

140 THAMES STREET; SECOND FLOOR

THURSDAY, MARCH 5, 2020

8:00 REGISTRATION OPENS

8:00 CONTINENTAL BREAKFAST SALTWATER DINING ROOM

9:00-12:00 PLENARY SESSION

GOOSEBERRY / EASTON'S ROOM

Susan Sullivan, NEIWPC & Janet Coit, RI DEM

Chris Yoder, Midwest Biodiversity Institute

10:15-10:45 BREAK

David Vallee, NOAA

12:00-1:15 LUNCH SALTWATER DINING ROOM

1:15-2:45 CONCURRENT SESSIONS 3

HABS IN THE FINGER LAKES STUDIES GOOSEBERRY ROOM

(Moderator:

Guy Foster, USGS

Advanced Water Quality Monitoring to Assess Biogeochemical Processes Related to Harmful Algal Bloom Development, Duration, and Decline in the Finger Lakes, New York

Kaitlyn Colella, USGS

Preliminary Analyses of Continuous Water Quality Data from Sensors Deployed at Cyanobacterial Harmful Algal Bloom Monitoring Stations

Michael Stouder, USGS

Multifaceted Monitoring to Determine Factors Contributing to CyanoHABS in the New York Finger Lakes

BIOLOGICAL STREAM MONITORING EASTON'S ROOM

(Moderator:

Aaron Moore, VT Agency of Agriculture, Food & Markets

Monitoring Vermont Reference Streams for Climate Change Impacts

Zachary Smith, NYS DEC

mmir: An R-package for Simple Biological Metric Calculations

Mary Becker, CT DEEP

Examining the Variability in Biological Metrics and Assemblage Data across Temporal Scales: Working towards Multi-Tiered Biological Assessment of Rivers and Streams in Connecticut

FRESHWATER BIVALVES MARINE SUITE

(Moderator:

Allison Roy, USGS

Modeling and Monitoring for Rangewide Conservation of a Rare Mussel

Ayla Skorupa, UMass Amherst

Propagation as a Tool for Restoration of a State Endangered Freshwater Mussel

Jennifer Ryan, UMass Amherst

Fish Assessments to Inform Recovery of Dwarf Wedgemussel

2:45-3:00 BREAK

3:00-4:30

Concurrent Sessions 4

LAKE MANAGEMENT & ANALYSIS

GOOSEBERRY ROOM

(Moderator:

Jason Carmignani, MassWildlife

Synthesis of Empirical Research Investigating the Effects of Annual Wintertime Water Level Drawdowns on Littoral Zones in Massachusetts Lakes

Jason Stolarski, MassWildlife

Using Bathymetry Data to Evaluate the Impact and Potential Effectiveness of Lake and Pond Management

Jeremy Deeds, ME DEP

Douglas Sutor, ME DEP

Developing an Index of Lake Habitat Quality for New England Lakes

LOW GRADIENT STREAM BIOCRITERIA

EASTON'S ROOM

(Moderator: Dahlia Tympanick)

Aaron Moore, VT Agency of Agriculture, Food & Markets

Establishing Biological Criteria for Vermont's Low Gradient Wadeable Streams

Jen Stamp, Tetra Tech Center for Ecological Sciences

Development of an Index of Biotic Integrity for Macroinvertebrates in Freshwater Low-Gradient Wadeable Streams in Southern New England

Ansel Aarestad, CT DEEP

Evaluating Macroinvertebrate Metrics from Low Gradient Stream Habitat in Connecticut

ESTUARY MONITORING AND ASSESSMENT

MARINE SUITE

(Moderator: Ian Dombroski)

Paul Stacey, Footprints in the Water, LLC

Benchmarking Watershed Condition for Aquatic Biointegrity Outcomes and Nutrient Criteria Development with Examples for Long Island Sound Coastal Watersheds

Jason Sorenson, USGS

Water Quality Conditions in the Sakonnet River, Rhode Island 2018-2019

Kaitlin Laabs, USGS

Theresa Armijo, USGS

U.S. Geological Survey Discrete and Continuous Water Quality Monitoring in the Pawcatuck River Watershed Rhode Island and Connecticut

4:30

POSTER SESSION

SALTWATER DINING ROOM

6:00

BANQUET DINNER

GAS LAMP GRILLE

206 THAMES STREET; SECOND FLOOR

FRIDAY, MARCH 6, 2020

8:00 REGISTRATION OPENS

8:00 CONTINENTAL BREAKFAST SALTWATER DINING ROOM

9:00-10:30 CONCURRENT SESSIONS 5

LAKE INDICATORS

GOOSEBERRY ROOM

(Moderator:

Sydney Welch, Plymouth State University

Diatoms as an Indicator Of Water Quality For Squam and Newfound Lake

Jonathan Higgins, Higgins Environmental Associates, Inc.

Lake Iron Nodules - An "Index Mineral" To Assess Sulfate Impacts to Surface Water and Sediment Quality Over Time (Pre-1800s to Today) in New England Lakes, Ponds, and Rivers

Denise Blanchette, ME DEP

Alison Watts, University of New Hampshire

Invasive Invertebrate Species Detection in Northeast Regional Lakes Using Environmental DNA (eDNA)

MODELING ECOLOGICAL RELATIONSHIPS

EASTON'S ROOM

(Moderator: Dahlia Tympanick)

Corey Conville, US EPA

Comparison of Macroinvertebrate Bioindicators to Ecosystem Function across a Gradient of Agricultural Impairment

Jane VanVessem, Research Foundation for SUNY ESF

Assessing Relationships between Physical Parameters of Streams and Macroinvertebrate Assemblages in New York State

Ben Jessup, Tetra Tech Center for Ecological Sciences

A Multimetric Index for Assessing Macroinvertebrates in Massachusetts Streams

WATERSHEDS & WATER QUALITY

MARINE SUITE

(Moderator:

Brian Duffy, NYS DEC

Walkill Watershed Monitoring, 2017 and Beyond – Communicating Science to Drive Water Quality Improvement

Stephanie Figary, Cornell University

Naomi Detenbeck, US EPA

Cara O'Donnell, Houlton Band of Maliseet Indians

Creating a High Resolution Spatial Statistical Network Model to Guide Riparian Restoration Strategies in a Transboundary Watershed

Andrew Kowalczyk, USGS

Edge-of-Field Nutrient and Sediment Monitoring in the Genesee River Watershed, New York

10:30-11:00 BREAK

11:00-12:00 CONCURRENT SESSIONS 6

FISH ASSEMBLAGES

GOOSEBERRY ROOM

(Moderator:

Christopher Bellucci, CT DEEP

Cold Water Stream Habitat in Connecticut

Chris Yoder, Midwest Biodiversity Institute

Eighteen Years on The Lower Kennebec River, Maine 2002-2019: Fish Assemblage Composition And Responses To Diadromous Fish Management

STREAM FLOW

EASTON'S ROOM

(Moderator:

Kate Bentsen, Massachusetts Division of Ecological Restoration

Adam Questad, Geosyntec Consultants

Coordinated Streamflow Releases to Improve Conditions in the Stony Brook Watershed, Massachusetts

Timothy Becker, University of Hartford

Machine Learning Strategies for Image Based Instream Water Flow Classification

MICROBIAL SOURCE TRACKING

MARINE SUITE

(Moderator:

Heidi Travers, RI DEM

Ian Dombroski, US EPA

Collaborative Water Quality Monitoring in the Palmer River Watershed and Innovative use of the PhyloChip DNA Micro-Array

Tristen Tagliaferri, USGS

Assessments of Fecal Contamination Sources Using Microbial Source Tracking in Long Island