MARCH 2-4, 2022

NORTHEAST AQUATIC BIOLOGISTS CONFERENCE

PORTLAND, MAINE

HOLIDAY INN BY THE BAY

Registration

Hotel Lobby ↑

Connecticut Room

Rhode Island Room

Vermont Room

New Hampshire Room
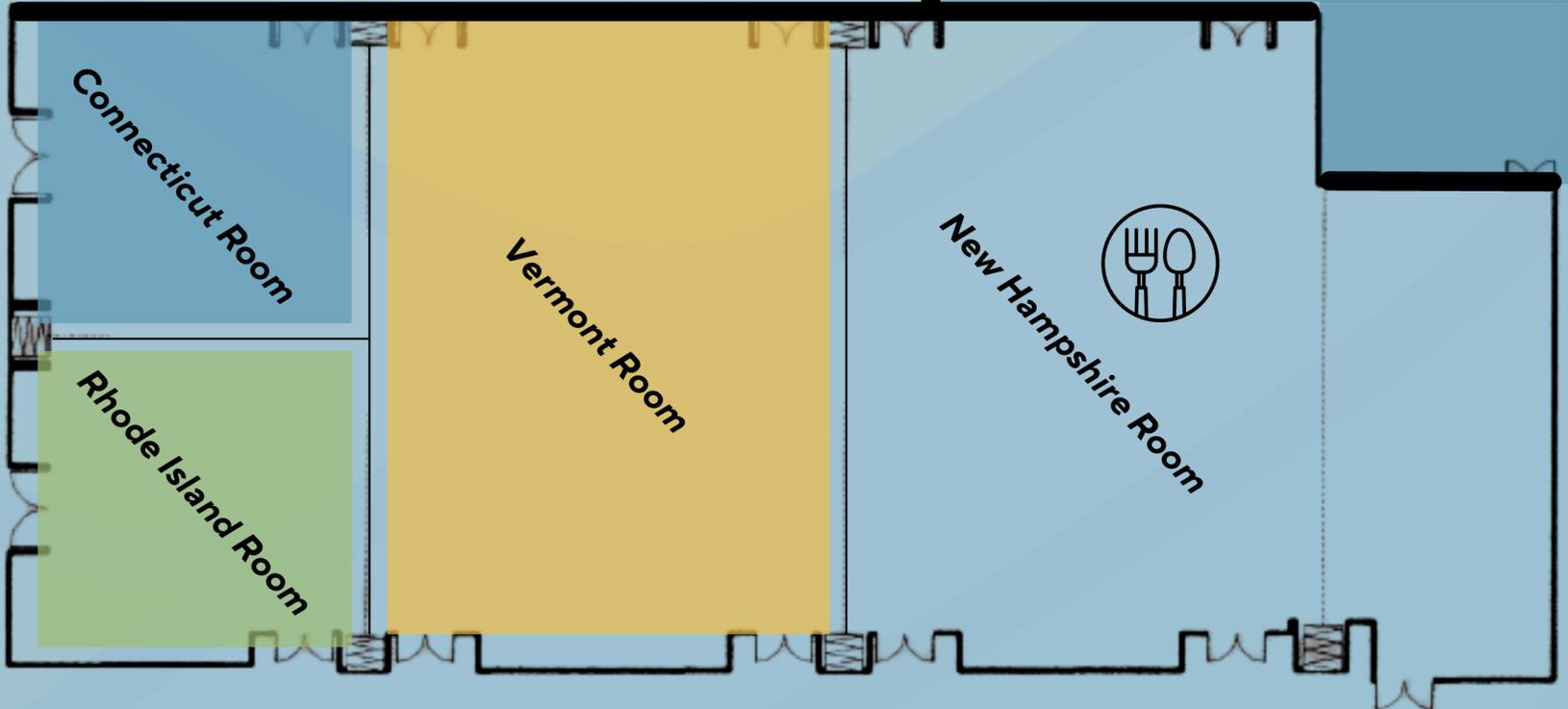
Exhibitors & Posters

PORTLAND, MAINE

WEDNESDAY, MARCH 2, 2022

	Streams & Stakeholders *Connecticut Room* moderator: Dahlia Tympanick	**Urban Streams** *Rhode Island Room* moderator: Kirsten Hugger	**Aquatic Invasive Species** *Vermont Room* moderator: Kellie Merrell
1:00	Streamflow and Water Quality Monitoring of the Nissequogue River in Suffolk County, New York Natalie Cheung, USGS	Assessment of Fecal Contamination Sources to Alley Creek, Queens County, New York Shawn Fisher, USGS	Pathways of Invasion: Recreational Boater Activity, Aquatic Invasive Species Distribution, and Landscape Level Connectivity to Inform Management and Prevention in New York State Michale Glennon, Paul Smith's College
1:30	Assessing Propogated Brook Floater Growth and Survival Across Four Rivers Ayla Skorupa, UMass Amherst	Variability in Dissolved Organic Carbon Across Urban Streams in Boston, Massachusetts Annika Quick, Idaho State University, MA Cooperative Fish & Wildlife Research Unit, UMass Amherst	eDNA Methods to Detect Invasive Invertebrates in Northeast Lakes [RECORDING] Denise Blanchette, ME DEP
2:00	The Importance of Stakeholder Engagement in Aquatic Barrier Removal, Case Studies from the Hudson River Estuary Watershed Megan Lung, NYSDEC HREP/ NEIWPCC	The Connection Between Sediment Resuspension, Turbidity and Fecal Indicator Bacteria Concentration and Their Effect on the Bacterial Water Quality of the Harlem River, New York Ashley Smith, USGS [RECORDING]	Herbicides Application to Manage Aquatic Invasive Species in Massachusetts Davis Miller, Northeastern University David Wong, MassDEP
2:30	**Break**		
	Fish Monitoring & Modeling *Connecticut Room* moderator: Richard Friesner	**Restoration & Habitat Enhancement** *Rhode Island Room* moderator: Jeanne DiFranco	**National Lake Assessments** *Vermont Room* moderator: Kellie Merrell
3:00	Applying the Biological Condition Gradient to U.S. EPA Region 2 Coral Reefs Ben Jessup, Tetra Tech	Long Term Impact of Large Wood Additions on Instream Habitat and Eastern Brook Trout (Salvelinus fontinalis) in Forested First Order Streams Katherine Lewis, Tin Mountain Conservation Center	Probabilistic Assessment of New Hampshire's Lakes, Ponds, and Reservoirs [RECORDING] Kirsten Hugger, NH DES
3:30	Twenty Years on the Lower Kennebec River, Maine 2002-2020: Fish Assemblage Composition and Responses to Diadromous Fish Management Chris Yoder, Midwest Biodiversity Institute	Indicators of Success: Restoration Monitoring in Vermont Laura Lapierre & Charlie Hohn, VT DEC	Results of New York State's Probability Based Lake Sampling Alene Onion, NYS DEC
4:00	Using Seasonal Water Temperature Data as a Primary Tool for the Development of a Targeted Approach to Coldwater Fisheries Restoration Sal DeCarli, EA , Inc.		Littoral Habitat Condition Assessment Indices for Lakes in Maine and New England Jeremy Deeds, ME DEP
5:00	**Social Event: Liquid Riot Bottling Company** 250 Commercial St, Portland, ME 04101		

THURSDAY, MARCH 3, 2022

8:00	**Breakfast:** *New Hampshire Room*		
9:00	Words of Welcome **[RECORDING]** Susan Sullivan, NEIWPCC & Tom Danielson, Maine DEP *Vermont Room*		
9:15	Plenary: <u>The Biological Condition Gradient for Export: Taking Our Biomonitoring Experience Abroad</u> <u>Dave Courtemanch, The Nature Conservancy</u> *Vermont Room*		
10:15	**Break**		
10:45	Conference Keynote Address **[RECORDING]** Maulian Dana, Penobscot Nation Tribal Ambassador *Vermont Room*		
12:00	**Lunch** *New Hampshire Room*		
	New York Lakes & Reservoirs *Connecticut Room* moderator: Robert Smith	**Winter Lake Drawdowns** *Rhode Island Room* moderator: Jeremy Deeds	**Climate Change** *Vermont Room* moderator: Dahlia Tympanick
1:15	<u>Structured Decision-Making Framework for Managing Cyanobacterial Harmful Algal Blooms in New York State Parks</u> <u>Jennifer Graham, USGS</u>	<u>Flipping the Flow Regime: Examining How Winter Lake Drawdowns Impact Downstream Flows and Temperature</u> <u>Alec Baker, UMass Amherst</u>	<u>Stream Macroinvertebrate Reintroductions: A Cautionary Approach for Restored Urban Streams</u> <u>Allison Roy, USGS, MA Cooperative Fish & Wildlife Research Unit, UMass Amherst</u>
1:45	<u>Multi-Beam Bathymetry for Morphology and Habitat Mapping: Examples from the New York City Water Supply Reservoirs</u> <u>Elizabeth Nystrom, USGS</u>	<u>A Cloud-Based Framework to Characterize Winter Water Level Drawdown of Lakes in the Northeast United States Using Satellite Remote Sensing</u> <u>Abhishek Kumar, UMass Amherst</u>	<u>Enhancing Resilience of Riverine Fishes Through Dam Removal</u> <u>Katherine Abbott, UMass Amherst</u>
2:15	**Break**		

THURSDAY, MARCH 3, 2022

	CyanoHAB Monitoring *Connecticut Room* moderator: Jennifer Graham	Emerging Contaminants in Water & Wildlife *Rhode Island Room* moderator: Heidi Travers	Regional Monitoring Networks *Vermont Room* moderator: Suzanne Flint
2:30	An Introduction to SPATT (Solid Phase Adsorption Toxin Tracking) Tools and Their Use in Monitoring Cyanotoxins Joshua Rosen, USGS	PFAS and Other Contaminants of Emerging Concern in the Bronx River, New York City, New York Irene Fisher, USGS	Exploring High Frequency Temperature and Hydrologic Data and Annual Macroinvertebrate Data from Streams in the Northeast Regional Monitoring Network (RMN) Jen Stamp, Tetra Tech
3:00	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 Michael Stouder, USGS	PFAS Fish Tissue Monitoring and Experiment in Maine Tom Danielson, ME DEP	The Northeast Sediment Diatom Collaborative: How a NAB Conference Workshop Spurred a Regional Collaboration **[RECORDING]** Kellie Merrell, VT DEC
3:30	Cyanotoxin Occurrence Along the Freshwater to Marine Continuum: A Pilot Study in the Northeastern United States Guy Foster, USGS	Understanding Bioaccumulation of PFAS in Freshwater Biota in the Mousam River, Maine Erasme Uyizeye, University of Rhode Island	Edge-of-Field Nutrient and Sediment Monitoring in Great Lakes Priority Watersheds **[RECORDING]** Andrew Kowalczk, USGS
4:00	Comparison of Imaging Flow Cytometry and Manual Counts for Assessing Ecological Status and Harmful Cyanobacterial Bloom Monitoring Sabina Perkins, USGS	A First Look at Ambient Monitoring of Contaminants of Emerging Concern in New York State Rivers and Streams Alene Onion, NYS DEC	Discussion: Regional Monitoring Networks
4:30	**Exhibitor & Poster Session** *Exhibitor Hall*		
6:00	**Banquet & Awards** *New Hampshire Room*		

FRIDAY, MARCH 4, 2022

8:00	**Breakfast:** *New Hampshire Room*		
	Data Visualization & Automation *Connecticut Room* moderator: Tom Danielson	**Watershed Assessments & Real-Time Data** *Rhode Island Room* moderator: Guy Foster	**Nutrient Loading** *Vermont Room* moderator: Jane Sawyers
9:00	Visualization and Evaluation of Time Series Data for Biological Assessments Robert Smith, MassDEP	A Water-Resource and Road-Condition Monitoring Study of Alternative Treatments for Road Deicing Natasha Drotar, USGS	Blackstone River Nutrient-Related Improvements Leading to Clean Water Act Success in RI Heidi Travers, RIDEM
9:30	RShiny and RMarkdown: Solutions to Static Reporting Methods and Perhaps the Death of MS Word Benjamin Block, Tetra Tech	Filling in the Blanks: How High Temporal Resolution Monitoring of two Massachusetts Reservoirs Reveals Short-Term Water Quality Trends Hannah Lee, MWRA	Using a 3D Coupled Hydrodynamic-Aquatic Ecosystem Model to Evaluate Alternatives for Controlling Internal Phosphorus Loading in Missisquoi Bay Meghan Arpino, Stone Environmental, Inc. Ashton Kirol, University of Vermont
10:00	Computational Methods for Image Based Stream Connectivity Classification **[RECORDiNG]** Timothy Becker, University of Hartford Mary Becker, CT DEEP	Dissolved Oxygen Monitoring in Great South Bay, Long Island, NY, in Support of Coastal Resource Management **[RECORDiNG]** Kaitlyn Finkelstein, USGS	Use of Aluminum Compounds as a Tool to Achieve a Hypolimnetic Reduction in the Total Phosphorus Load in Nippo Lake, Barrington, NH **[RECORDiNG]** Kirsten Hugger, NH DES
10:30	**Break**		
	NAB Conference Recordings *Connecticut Room*	**NAB Community Discussion** *Rhode Island Room*	**Acidification** *Vermont Room* moderator: Jeremy Deeds
11:00	Did you miss any of the NAB Conference's recorded presentations? Come to the Connecticut Room to check out our pre-recorded sessions.	Do you have a current or future project or initiative you'd like to discuss? Come to the Rhode Island Room for an informal conversation about NAB Community developments.	Somewhere Between Hard Science and Hand-Waving, Using Continuous Water Quality Monitoring Data to Interpret Stream Response in Atlantic Salmon Habitat Emily Zimmermann, ME DEP
11:30			The Long-Term Response of Remote Acid-Impaired Lakes in Vermont to Reduced Acid Rain Inputs **[RECORDiNG]** Bruce Forsberg, VT DEC

Thank you for attending NAB 2022! See you next year in Massachusetts!