

3rd Annual Virtual Harmful Algal Bloom Research Symposium January 5-6, 2023

Thursday, January 5, 2023		
SESSION ONE: Harmful Algal Bloom Monitoring and Forecasting		
8:30 – 8:40 AM CT	Welcome and Introduction	
8:40 – 9:20 AM CT	Keynote Presentation: Harmful Algal Bloom Control Resources and	
	Innovations	
	Heather Raymond, Water Quality Initiative Director, The Ohio State	
	University's College of Food, Agriculture and Environmental Sciences	
9:20 – 9:50 AM CT	Using Satellite-Derived Water Quality Data from an Automated High-	
	Performance Computing Environment to Identify Lakes Prone to	
	Cyanobacteria blooms	
	Leif Olmanson, Research Scientist at the University of Minnesota	
9:50 – 10:20 AM CT	Remote sensing of water quality of Midwestern in-land waters	
	Shuo Chen, Ph.D. student in the Department of Agricultural & Biological	
	Engineering at Purdue University	
10:20 – 10:40 AM CT	BREAK	
10:40 – 11:10 AM CT	Multivariate Factors Assessment for Harmful Algae Bloom Formation	
	Meera Gopinath Sujatha, University of North Dakota	
11:10 – 11:40 AM CT	Chlorophyll-a Prediction as Index of Harmful Algal Blooms using a Deep	
	Learning Model	
	Ibrahim Busari, Ph.D. student in the Department of Agricultural Sciences at	
	Clemson University	
11:40 AM – 1:00 PM CT	MORNING BREAK	
SESSION TWO III and I	All al Bloom But affect and Tourism	
	Algal Bloom Detection and Treatment	
1:00 – 1:05 PM CT	Opening Comments and Introduction	
1:05 – 1:35 PM CT	Preventative and Early Intervention Applied Management Programs for	
	Harmful Algal Blooms	
	West Bishop, Algae Scientist and Water Quality Research Manager at SePRO	
1:35 – 2:05 PM CT	A Review of Recent Studies of Microcystis Using FlowCam	
	Polly Barrowman and Savannah Judge, Yokogawa Fluid Imaging Technologies	
2:05 – 2:25 PM CT	BREAK	
2:25 – 2:55 PM CT	Improving the Spatial and Temporal Monitoring of Harmful Algal Blooms in	
	Midwest Lakes using a UAV Remote Sensing Approach	
	Daniel Swanepoel, Graduate Research Assistant at IIHR – Hydroscience &	
	Engineering at the University of Iowa	
2:55 – 3:00 PM CT	Closing comments	
Friday, January 6, 2023		
SESSION THREE: Ecology and Human Health		



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8:30 – 8:40 AM CT	Opening Comments and Introduction
8:40 – 9:10 AM CT	Gaining Perspective on Harmful Algal Blooms in Rivers
	Jennifer Murphy, Hydrologist at USGS Central Midwest Water Science Center
9:10 – 9:40 AM CT	Health-Environment Risks: A Comparison of Fishing Community and Expert
	Perceptions of Cyanobacterial Blooms
	Katie Fiorella, Assistant Professor in the Department of Public and Ecosystem
	Health at Cornell University
9:40 – 10:10 AM CT	Harmful Cyanobacterial Blooms: A Public Health Issue
	Jordan Murray, Wisconsin Water Resources Science-Policy Fellow at the
	Wisconsin Department of Health Services
10:10 – 10:30 AM CT	BREAK
10.10 – 10.30 AM CT	BILLAIN
SESSION FOUR: Case Stu	dies
10:30 – 11:00 AM CT	Utilizing the SWAT Model & Machine Learning for Predicting Microcystin &
	Geosmin occurrence in Cheney Reservoir
	Chen Liang, Ph.D. candidate in the Department of Geography and
	Atmospheric Sciences at the University of Kansas
11:00 – 11:30 AM CT	The Great Lakes HABs Collaborative - Linking Science and Management to
	Reduce Blooms
	Conner Roessler, Program Specialist at the Great Lakes Commission
11:30 AM – 12:00 PM	Smart Lake Erie Watershed Initiative: Enhancing the Region's Real-Time
СТ	Monitoring Capabilities
	Ken Gibbons, Environmental Scientist at LimnoTech
12:00 PM CT	Adjourn
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The Algal Bloom Action Team is a collaboration of water professionals, researchers, and educators from the national network of Water Resources Research Institutes, the North Central Region Water Network, and Cooperative Extensions from the 12 states in the North Central Region of the United States. More information at northcentralwater.org/habs.



