

Lakebed 2030

Event Schedule

Wednesday, September 28, 2022 (times reflect eastern time zone)			
Time	Topic	Event / Presentation	Presenter(s)
8:30 am 3:00 pm	Workshop	ADCP Workshop and Technology Demonstrations	<i>Teledyne Marine / Dune Technologies</i>
11:00 am 5:00 pm	Demos	On-water Demonstrations: Seafloor Systems, Chesapeake Technologies, Michigan State Police, Orbit, Great Lakes Research Center, Norbit	<i>AUV, ASV, ASV, Sonar systems, data processing</i>
3:00 pm	Registration	REGISTRATION OPEN	
5:00 pm	Welcome	Welcoming Comments & Sponsorship Recognition	Nick Nissley, President <i>Northwestern Michigan College</i>
5:30 pm	Reception	Welcome Reception – Social Event	<i>Hosted by Northwestern Michigan College</i>
7:00 pm		End of Day 1	

Thursday, September 29, 2022 (times reflect eastern time zone)			
Time	Topic	Event / Presentation	Presenter(s)
8:00 am	Opening Remarks	Overview of the day's presentations Keynote Speaker introduction	Hans VanSumeren <i>Northwestern Michigan College, Director, Water Studies Institute</i>
8:15 am	Keynote	Benjamin K. Evans NOAA Director, NOAA Office of Coast Survey	Benjamin K. Evans <i>NOAA Director, NOAA Office of Coast Survey</i>
8:45 am	Mapping & Bathymetry	Successes and Challenges from Two Years of Great Lakes Mapping	Nick Azzopardi <i>NOAA/Coast Survey/Navigation Response Branch</i>
9:15 am	Mapping & Bathymetry	NOAA Great Lakes Research Vessel Mapping Updates for 2022	John Bright <i>NOAA Thunder Bay National Marine Sanctuary</i>
9:45 am	Break	Coffee break	
10:00 am	Mapping & Bathymetry	Ground-Truthing for Lakebed Maps in the Great Lakes	Ayman Mabrouk <i>NOAA/CSS</i>
11:00 am	Panel	Mapping the Great Lakes: Gaps, Barriers, and Opportunities a Multi-organizational Perspective	B. Evans, H. VanSumeren, T. Kearns
12:00	Lunch	Lunch	
1:00 pm	Mapping & Bathymetry	National Centers for Environmental Information (NCEI) Bathymetry Team - Data Contribution, Sharing, Accessibility, and Archive Overview	Jessica Nation (NOAA) / <i>Cooperative Institute for Research in Environmental Sciences (CIRES)</i>
1:30 pm	Mapping & Bathymetry	Canadian Hydrographic Service's Approach to Bathymetric Gap Analysis	Christine Delbridge <i>Canadian Hydrographic Society</i>
2:00 pm	Mapping & Bathymetry	Acquisition Methods for High Resolution, Modern Charting of Approaches to Cleveland	Michelle Levano NOAA Ship <i>THOMAS JEFFERSON</i> Sarah Thompson, NOAA

2:30 pm	Mapping & Bathymetry	Absolute Ocean, A Cloud-Based Geospatial Data Management Platform	Evan Martzial <i>Terradepth</i>
3:00	Break	Coffee break	
3:15 pm	Mapping & Bathymetry	High Performance and Low Carbon Mapping for the Great Lakes	Matt Holland, <i>XOCEAN</i> Mike Mutschler, <i>NORBIT</i>
3:45 pm	Mapping & Bathymetry	Large-scale Charting of Lake Michigan and the Newly Designated Wisconsin Shipwreck Coast National Marine Sanctuary: Survey Approach, Challenges, and Management.	Dave Bernstein <i>Geodynamics</i>
4:15 pm	Roundtable	Employer – Student Round Table	
5:30 pm	Reception	Hosted Reception – Social Event	
		End of Day 2	

Friday, September 30, 2022 (*times reflect eastern time zone*)

Time	Topic	Event / Presentation	Presenter(s)
8:00 am	Opening Remarks	Overview of the day's presentations Keynote Speaker introduction	Tim Kearns <i>Great Lakes Observing System</i>
8:15 am	Keynote	Hydrospatial Data for Better Understanding of the Great Lakes!	Denis Hain <i>H2i, PDG</i> <i>President & CEO</i>
8:45 am	Mapping & Bathymetry	Multi-sensor, Low-impact Data Collection in Support of Lakebed 2030	Kitch Kennedy <i>Saildrone</i>
9:15 am	Mapping & Bathymetry	Lakebed 2030: Visualizing Progress	Linden Brinks <i>Great Lakes Observing Systems</i>
9:45 am	Fisheries & Habitat	Modeling the Risk of Dreissenid Mussel Colonization in Unionid Mussel Habitat in Lake Superior U.S. National Parks	Nathaniel Penrod <i>Michigan State University</i>
10:15 am	Break		
10:30 am	Fisheries & Habitat	Characterizing Lakebed Habitats Using Remotely-sensed Data and Predictive Modeling	Charles Menza <i>NOAA</i>
11:00 am	Mapping & Bathymetry	Lakebed 2030: Next Steps to Realizing the Goal	Tim Kearns <i>Great Lakes Observing Systems</i>
11:30 am	Closing Remarks	Upcoming Events: <ul style="list-style-type: none"> • Lakebed 2030 in 2023 • OCEANS 2025 	Hans VanSumeren <i>Northwestern Michigan College,</i> <i>Director, Water Studies Institute</i>
12:00	Event Close	Event close	
12:00	Lunch	MTS / THSOA Midwest Section Joint Chapter Meeting	Separate registration required <ul style="list-style-type: none"> • THSOA Meeting • MTS Meeting
2:00 pm		Water Innovation Lab – Great Lakes	Event link

Virtual Sessions (pre-recorded)			
Time	Topic	Event / Presentation	Presenter(s)
	Mapping & Bathymetry	Update on Great Lakes Benthic Habitat Mapping in Support of Collaborative Management of Emerging Littoral Issues in Waters of Lake Superior, Michigan, and Huron. (Virtual Presentation)	Brandon Krumwiede <i>NOAA</i>
	Mapping & Bathymetry	Monitoring Nearshore Morphodynamics at Illinois Beach State Park, Lake Michigan: Insights from 4 years of Data Acquisition Using Single-beam Sonar. (Virtual Presentation)	Robin Mattheus <i>Illinois State Geological Survey</i>
	Mapping & Bathymetry	3D Nation Elevation Requirements and Benefits Study Results (Virtual Presentation)	Sue Hoegberg <i>Dewberry</i>
	Mapping & Bathymetry	A National Mapping Strategy: Great Lakes Implications (Virtual Presentation)	Nina Yang <i>U.S. National Ocean Mapping, Exploration, and Characterization (NOMECC) Council</i>
	Mapping & Bathymetry	Creating a Near-Seamless Digital Elevation Model of Lake Ontario (Virtual Presentation)	Scott Spurgeon <i>United States Army Corps of Engineers</i>