



LAKEBED 2030

September 19-21, 2023
Traverse City, Michigan



Event Schedule

Tuesday, September 19, 2023 (times reflect Eastern daylight time)			
Time	Topic	Event / Presentation	Presenter(s)
0800 - 1600	Course	Marine Inspection Systems & Applications Course Introduction to Acoustical Sensors and Their Application Cost \$370.00 Course Registration	Brian Atherton Mark Abbott
0800 - 1200	Workshop	TBD – Available for Sponsor Technical Sessions	TDB
1300	Registration	REGISTRATION OPENS	Exhibitor set-up
1400		MTS / THSOA regional chapter meeting Link to registration (no-cost event)	
1300 - 1700	Demos	On-water Equipment Demonstrations	
1700	Reception	Welcome Reception & Sponsorship Recognition Hosted by Northwestern Michigan College	Nick Nissley, President Northwestern Michigan College



Wednesday, September 20, 2022 (times reflect Eastern daylight time)

Time	Topic	Event / Presentation	Presenter(s)
0800	Hosted breakfast		
0830	Opening Remarks	Welcome and Overview of the Day Featured Speaker Introduction Announcement: Great Lakes Innovation Challenge Launch	<i>Hans VanSumeren, Director Water Studies Institute Northwestern Michigan College</i>
0845	Featured Speaker	Connecting the Dots for Climate, Ocean, and Freshwater for Great Lakes Innovation as an Economic Driver	<i>Millicent Pitts, Exec. Director Oceans Exchange</i>
0915	Featured Speaker	Mapping Beyond Borders: Why Binational Great Lakes Coordination Matters	<i>Heather Stirratt, Director International Joint Commission</i>
0945	Coffee break		
1000	The National Ocean Mapping, Exploration, and Characterization (NOMECE) Strategy: Great Lakes Implications	<i>Ashly Chappell NOAA IOCM</i>	
1030	Building the Great Map - The Role of Uncrewed Systems	<i>Brian Connon VP of Ocean Mapping, Saildrone</i>	
1100	NOAA Great Lakes Research Vessel Mapping Updates for 2023	<i>John Bright NOAA-GLERL</i>	
1130	Integrating Mapping Coordination and Data Stewardship Practices into Northwestern Michigan College's Marine Technology Capstone Course	<i>Jessica Nation and Cathleen Yung NOAA</i>	
1200	Lunch Option 1 - Networking	Lunch Option 2: DEI for Lakebed 2030 <i>Helen Stewart, Fugro</i>	
Concurrent Sessions – Equipment Demonstrations starting at 3:00 PM			
1300	Habitat & Subsurface Characteristics Track		Bathymetric Mapping & Data Track
	An Update on the Great Lakes Benthic Habitat Mapping Project <i>Brandon Krumwiede, NOAA-OCM</i>		International Great Lakes Datum: Possible Impacts and What You Need to Know <i>Jacob Heck, NOAA/National Geodetic Survey</i>
1330	Mapping Benthic Substrate from AUV Images to Lake-Wide Using Machine Learning: Challenges and Lessons Learned. <i>Phil Wernette, USGS</i>		Lakebed 2030: Expanding Crowdsourced Bathymetry in the Great Lakes <i>Linden Brinks, GLOS</i>
1400	ICESat-2 Observations of Surface and Shallow Subsurface Characteristics of the Lakes Since 2018 <i>Michael Jasinski, NASA Goddard Space Center</i>		Enhancing Great Lakes Mapping through Multisensor Ground Truthing: A Case Study in Madeline Islands, WI <i>Ayman Mabrouk, NOAA-CSS</i>
1430	Classifying Lakebed Habitat of Ground-Truthing Data via TATOR Annotation Tools <i>Tonya Hoevet, NOAA</i>		US Hydrographer Certification Program <i>Dave Bernstein, Geodynamics, MSPS Board</i>
1500	Coffee Break		
1515	Lakebed Habitat Mapping Using Multiband Backscatter <i>Matt Holland, NORBIT</i>		Leveraging Marine Robotic Systems for Data-Driven Shipwreck Detection <i>Katherine Skinner and Advait Sethuraman, University of Michigan</i>
1545	Subsurface Geophysical Imaging of Greater Chicago's Lake Michigan Littoral Zone <i>Mitchell Barklage, Illinois State Geological Survey</i>		Comparing Substrate Classification Model Accuracy Using AUV Ground-Truthing Information and Simulated Traditional Approaches <i>Sam Pecoraro, USGS</i>
1615	Geomorphic Feature Extraction to Support Regional Sediment Management in Lake Superior <i>Charlene Sylvester, USACE R&D Center</i>		Refinement & Automation of Satellite-derived Bathymetry and New Software Tools <i>Dafrosa Kataraihya, Florida International Univ.</i>
1645	<u>Employer – Student Round Table</u> (Separate registration requested)		
1730	Hosted Reception – Social Event		

Thursday, September 21, 2022 (times reflect Eastern daylight time)

Time	Topic	Event / Presentation	Presenter(s)
0800	Hosted Breakfast		
0830	Opening Remarks	Overview of the day's presentations Featured Speaker Introduction	<i>NOAA or Great Lakes Observing System</i>
0845	Featured Speaker	Seabed 2030 - Mapping for People and Planet	<i>Steve Hall, Head of Partnerships SEABED 2030</i>
0915	Featured Speaker	CLEAR Skies, CLEAR Goals: Community-Led Engagement and the Lakebed 2030 Initiative	<i>Helen Stewart, Hydrographer Fugro</i>
1000	Panel	Topic: Connecting Lakebed 2030 with Seabed 2030 <i>Steve Hall, SEABED 2030 Helen Stewart, Fugro Heather Stirratt, International Joint Commission Ashley Chappell, NOAA</i>	<i>Hans VanSumeren Moderator</i>
1030	Break		
1045	AUV Mapping & Recharging Using Teledyne Supercharger in Lake Michigan in Under-ice Conditions		<i>Chris Roper, Roper Resources LTD NOAA, Teledyne Energy Hibbard Inshore</i>
1115	High-Accuracy Lakebed Mapping for Shoreline and Inland Waterways		<i>Lucas Hanson Spicer Group</i>
1145	Lakebed 2030: Governance Model		<i>Linden Brinks GLOS</i>
1200	Closing Remarks / Event Close		<i>Hans VanSumeren, Director Water Studies Institute Northwestern Michigan College</i>
Lakebed 203 Event Close			

12:00	Smart Ships Coalition Workshop		
<p>This event is not included in the Lakebed conference registration and requires a separate registration</p> <p align="center"><u>Registration Site</u></p>			

Revision date: (07.27.2023)