



# 2025 SURVEY TECHNICAL WORKSHOP SCHEDULE

**TUESDAY, MARCH 11, 2025**

WHITEBIRCH I & II			
9:00 AM	<b>WORKSHOP REGISTRATION</b>		
10:00 AM	<b>WELCOME AND OPENING REMARKS</b> Geoff Bitner, Assistant Director Office of Land Management		
10:15 AM	<b>THE SURVEYOR'S ROLE IN LAND PRESERVATION</b> Chris Ambourn & Sam Gibson		
11:15 AM	<b>ROADS TO CONSERVATION: HOW DOTS HELP SAVE THE WORLD</b> Christopher Smith		
12:15 PM LUNCH IN MINNESOTA I & II			
	WHITEBIRCH I	WHITEBIRCH II	LAKESIDE RM.
1:15 PM	<b>TRIMBLE'S AUGMENTED REALITY</b> Tony Edelbrock Evan Traxler	<b>MINDFULNESS-BASED STRESS REDUCTION: INTRODUCTORY SESSION</b> Debra Lindh, Ed.D.	<b>SCAN PROCESSING (STATIC SCANNING ADA) RIEGL AND SX12 SCANNERS AND TOPODOT PROCESSING</b> Brett Blomquist Bryan Nagorka
2:15 PM	<b>PHOTOGRAMMETRY AND LIDAR DRONE SURVEYS</b> Luis Rojas	<b>FUNDAMENTALS OF SURVEY EVIDENCE AND MEASUREMENTS</b> Sam Gibson	<b>MESH VS SILO: UNCOMPLICATING DATA</b> Bradford Folta
3:15 PM BREAK IN MINNESOTA I & II			
3:30 PM	<b>OMBUDSMAN ORIENTATION</b> Jim Skoog	<b>WORK ZONE SAFETY FOR FIELD SURVEY</b> Timothy Parkos Sarah Keeling	<b>HOW CAN GIS TOOLS HELP SURVEYORS?</b> Jay Haskamp
		<i>Repeated at 8:00 AM 3/13</i>	
4:30 PM	<b>ADJOURN</b>		
5:30 PM DINNER IN MINNESOTA I & II			



# 2025 SURVEY TECHNICAL WORKSHOP SCHEDULE

**WEDNESDAY, MARCH 12, 2025**

6:45 AM BREAKFAST IN MARINA DINING ROOM			
	WHITEBIRCH I	WHITEBIRCH II	LAKESIDE RM.
8:00 AM	<b>FLYING INTO THE FUTURE - HOW TERRESTRIAL, AERIAL, AND MOBILE BASED LIDAR WORK TOGETHER FOR DIFFERENT TRANSPORTATION PROJECTS</b> Dylan Jones Katy Rudolph	<b>SURVEY INFORMATION AND BRIDGE PLAN DEVELOPMENT</b> Cary Gries	<b>CARLSON SURVEY BASICS</b> Luis Rojas
9:00 AM	<b>TERRESTRIAL SCANNING &amp; CONVENTIONAL SURVEY FOR ENGINEERING AND DESIGN</b> Matt Vinopal	<b>PLAN READING 101</b> Mike Sjodin	<b>UNDERSTANDING LEGAL DESCRIPTIONS</b> Rick Morey
10:00 AM BREAK IN MINNESOTA I & II			
10:15 AM	<b>PLSS MONUMENT GRANT AND LEGISLATIVE UPDATE 2025</b> Alison Slaats Patrick Veraguth	<b>ELECTRONIC FILES 101</b> Justin Kraus	<b>TURNBACKS</b> Keith Jellinger
11:15 AM	<b>REVIEW OF THE 1852 STATE LINE SURVEY ALONG THE ST. LOUIS RIVER: A DIAGRAM OF SURVEY BETWEEN A STATE AND A TERRITORY (PART 1)</b> Anthony Lueck	<b>MNDOT MOBILE SCANNING</b> Colin Lee Dylan Jones	<b>CST APPLICATION &amp; TEST PREPARATION</b> Norman Ellerbrock
12:15 PM LUNCH IN MINNESOTA I & II			
1:15 PM	<b>STATUS OF THE 1852 STATE LINE BOUNDARY BETWEEN MINNESOTA AND WISCONSIN AND RECOVERY OF MILE POST MONUMENTS (PART 2)</b> Anthony Lueck	<b>SURVEYING FOR BRIDGE CONSTRUCTION</b> Adam Olson	<b>RDOai, DRONE DATA PROCESSING AND REAL-WORLD RESULTS</b> Cody Wagner Tanner Laverdiere
2:15 PM	<b>ORIGINAL GOVERNMENT SURVEY OF GUIDE MERIDIANS AND STANDARD PARALLELS IN MINNESOTA</b> Don Borcharding	<b>BASICS OF UTILITY MAPPING</b> Simon Pedley	<b>IMPLEMENTING SURVEY TARGETS INTO AERIAL MAPPING</b> Miles Strain
3:15 PM BREAK IN MINNESOTA I & II			
3:30 PM	<b>MNDOT ROW: BOUNDARY DETERMINATION, MONUMENTATION, AND RECORD RESOURCES</b> Geoff Bitner	<b>TOPODOT</b> Mike Cook	<b>OBTAINING MAXIMUM ACCURACY FROM LOW-COST DRONE SYSTEMS USING BOTH SINGLE AND ZERO GROUND CONTROL POINTS</b> Jeffrey Walsh
4:30 PM	ADJOURN		
5:30 PM	DINNER IN MINNESOTA I & II		



# 2025 SURVEY TECHNICAL WORKSHOP SCHEDULE

**THURSDAY, MARCH 13, 2025**

6:45 AM BREAKFAST IN MARINA DINING ROOM			
	WHITEBIRCH I	WHITEBIRCH II	LAKESIDE RM.
8:00 AM	<b>DATUMS &amp; COORDINATE SYSTEMS: PREPARING FOR THE NEW DATUM</b> Geoff Bitner	<b>WORK ZONE SAFETY FOR FIELD SURVEY</b> Timothy Parkos Sarah Keeling <b>REPEAT</b>	X
9:00 AM	<b>TREE IDENTIFICATION AND NOXIOUS WEED</b> Christina Basch Dave Hanson	<b>MNDOT'S PROTOCOL FOR TARGETING AND CHECK SHOTS</b> Adam Smith	
10:00 AM BREAK IN MINNESOTA I & II			
WHITEBIRCH I & II			
10:15 AM		<b>BLUFF SURVEYS</b> Craig Wensmann	
11:30 AM ADJOURN			

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