

## 2017 Survey Technical Workshop

March 14 – 16, 2017  
Cragun’s Conference Center

### From the Committee

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The Minnesota Department of Transportation’s Office of Land Management, invites you to attend the 2017 Survey Technical Workshop, to be held March 14-16, at Cragun’s Conference Center in Brainerd, MN. This year marks MnDOT’s 20th consecutive year of sponsoring this workshop and we are proud to once again offer topics with the focus on surveying, mapping, GIS and other related topics of interest.

The event will provide a setting in which to view current practices, examine prospective trends, consider technical applications and improvements and build relationships within the surveying community. We are pleased to offer this training opportunity to MnDOT employees, students and our professional partners.

### Audience

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- MnDOT personnel involved in survey operations
- Other state agency employees interested in survey technologies
- County and city agency staff performing survey functions
- Private sector consultants
- Students and education professionals

### Date, Time and Location

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Date, time, location	Registration information
March 14 – 16, 2017 Cragun’s Conference Center 11000 Craguns Drive Brainerd, Minnesota 56401 Phone: (800)-272-4867 Fax: (218)-825-2727	Registration begins at 9:00 a.m. on Tuesday, March 14, 2017. The workshop program then commences at 10:00 a.m. The next 2½ days will include educational sessions and exhibits. The workshop concludes on Thursday, March 16 at approximately 12:15 p.m. Please visit <a href="#">Cragun’s Conference and Golf Resort website</a> for more information about the workshop venue.  Please contact Cheryl Hunstock (651-366-3452) to request an ASL interpreter or if you have other special attendance considerations.

## Registration and Cost

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Registration will close on March 8, 2017 or when the total number of registrants reaches 325. There will be early and late fees. The early registration fee is \$100 if the registration is postmarked on or before Feb. 13, 2017. The late registration fee is \$125 if postmarked after Feb. 13, 2017 and before March 8, 2017. Cancellations must be received by March 1, 2017 for a full workshop registration fee refund. Credit cards are not accepted.

### To successfully register for the 2017 Survey Technical Workshop, you must:

- Step 1: Complete the Workshop Registration Form and send as specified on the form
- Step 2: Complete the Cragun's Reservation Form (lodging and/or meals) and send as specified below.  
*Note: Skip this step if you do not need lodging or meals. If you are lodging somewhere else, you may still purchase the meal package. Follow instructions below.*

### Workshop registration forms

Workshop registration form (for non-MnDOT participants)

MnDOT employee registration form – submit this form to your district Training Development Specialist

Please print and fill out the workshop registration form and send it with your registration fee (checks made out to the Commissioner of Transportation) to:

Cheryl Hunstock  
395 John Ireland Blvd., MS 630  
St. Paul, MN 55155  
Phone: 651-366-3452  
Fax: 651-366-3450  
[cheryl.hunstock@state.mn.us](mailto:cheryl.hunstock@state.mn.us)

The registration fee will cover workshop costs. It is non-negotiable, but is transferable. Credit cards are not accepted. *Note: the registration fee does not include the cost of meals and lodging at the workshop. Please fill out the Cragun's reservation form to reserve meals and lodging.*

*Under Minnesota Statutes Chapter 13, called the Minnesota Government Data Practices Act (MGDPA), data that are created, collected, and/or maintained by MnDOT are public unless a specific statute or law classifies the data as something other than public. The information that you provide on this registration form is considered public data under the MGDPA. MnDOT is obligated to release this data upon request.*

## **Cragun's Reservation Form**

Please print and fill out the Cragun's reservations form. Fax the form to (218)-825-2727. Phone registrations are not accepted.

*Carefully review the various lodging/meal package options. There are also meal options for commuters. Please check appropriate boxes.*

*For special sleeping room accommodations and/or special dietary needs please note them on the Cragun's Reservation Form or contact: Cragun's at (800)-272-4867.*

Package Rates listed below are per person and include everything listed including meeting space, resort service charge and Minnesota sales tax. MnDOT employees should submit completed forms to district TDS.

### **Two-night package**

- \$227.99 Single Occupancy (per person)
- \$163.56 Double Occupancy (per person)
- Includes:
  - Tuesday: lunch, breaks, dinner
  - Wednesday: breakfast, lunch, breaks, dinner
  - Thursday: breakfast and break

### **Tuesday – One-night package**

- \$130.60 Single Occupancy (per person)
- \$98.38 Double Occupancy (per person)
- Includes:
  - Tuesday: lunch, breaks, dinner
  - Wednesday: breakfast, lunch, breaks, dinner

### **Wednesday – One-night package**

- \$115.23 Single Occupancy (per person)
- \$83.01 Double Occupancy (per person)
- Includes:
  - Wednesday: breakfast, lunch, breaks, dinner
  - Thursday: breakfast and break

### Early arrival (based on availability)

- \$74.24 Single Occupancy (per person)
- \$42.03 Double Occupancy (per person)
- Includes Monday lodging and breakfast on Tuesday

### Cragun's non-state employee cancellation/no-show policy:

- Less than 10 days prior to arrival: No deposit refund
- No-show on arrival night: No deposit refund (room will be held until 12:00 p.m. the following day and you are responsible for nights requested)

### Meals/breaks for workshop commuters

If you are not planning your lodging at Cragun's, you may still purchase meals. Below is the breakdown of the meals. These meals/breaks are priced the same as if you were lodging at Cragun's. Please remember, breaks are included in the meal packages as indicated in the chart below.

#### Commuter meal and break prices

Meal	Price	Number needed	Total price
Tuesday, March 14 Lunch w/Breaks	\$17.84 each		\$
Tuesday, March 14 Dinner	\$20.68 each		\$
Wednesday, March 15 Breakfast	\$9.81 each		\$
Wednesday, March 15 Lunch w/Breaks	\$17.84 each		\$
Wednesday, March 15 Dinner	\$20.68 each		\$
Thursday, March 16 Breakfast w/Breaks	\$12.28 each		\$
<b>Total prepayment enclosed:</b>			\$

\*Meeting package tickets must be picked up at Cragun's Front desk\*

## Proposed Workshop Topics

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At this time, the completed schedule is still being determined, but the proposed topics are listed below. A complete schedule will be posted in late January of 2017. Please note that there will be sessions in which various vendors will demonstrate their products and services. Topics being considered are:

- An Insider's Look at Cogo and Functions within Trimble Access (Frontier Per.)
- As Built for Construction Projects
- ATV/UTV Safety Topic
- AutoCAD Session
- Autonomous Vehicles
- Bathymetric Surveys in Rochester
- Carlson Software Presentation
- Certified Survey Tech. Program
- Communications Topic
- Construction & Staking Requirements (Private Sector Perspective)
- Continental Mapping Presentation
- Control Systems, Datums and Standards
- Tree Identification
- Estimating & Bidding Jobs for Construction Staking
- Ethics Part 1 & Part 2
- Field Care, Maintenance, and Calibration for Robotic Total Stations (Frontier Per.)
- Goodhue Cnty. GIS/LIS Lincea Grant
- Graphical Road Stakeout
- Historical Survey Session
- How to Read Survey Notes (Terminology, Vernacular, Cursive Writing)
- MnDOT/Private Sector Design Session
- NGS Update
- Platting Topic
- PLS & Land Corner Research
- Precision and Accuracy (Part 1 & 2 back to back) (Leica Rep.)
- Reasons Why Land Surveying is "cool!"
- Research money for backpack laser scanning system
- Rod Squires Presentation
- Survey of St. Croix River Crossing Project
- Traffic Safety
- Trimble Access – Graphical Road Staking (Frontier Per.)
- Trimble SX10 is Redefining Survey Workflows (Frontier Per.)
- Unmanned Remote Aircraft (Waiting for data)
- US Bank Stadium Survey

## Professional Development Hours

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For those submitting Professional Development Hours with the Board of Architecture, Engineering, Land Surveying, Landscaping Architecture, Geoscience and Interior Design, please select those sessions that will meet your personal training needs and satisfy your defined licensing standard requirements.

Workshop participants are responsible for submitting for Professional Development Hours with the board. Attendees planning on using this workshop towards earning professional development hours are responsible for retaining registration receipts and the workshop brochure, which provides the agenda and course descriptions.

As sponsor of this event, the Office of Land Management will provide workshop participants with a Certificate of Attendance, on Thursday, March 19, after the workshop at the registration table in the Centre.

To receive a certificate of attendance from the Minnesota Department of Transportation, workshop participants are required to have attended the full three days of sessions. A certificate of attendance will be distributed following the last session to keep for your records.

## Vendors and Exhibits

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Vendor displays and exhibits can be viewed in the Lakeside Dining Room. Vendor displays can be viewed throughout the workshop, beginning the afternoon of March 14 through the PM break on March 16. Exhibitors will be happy to answer specific questions regarding their products and services.

If you or your company would like to participate in the vendor display area at the 2017 Survey Technical Workshop, please contact Cheryl Hunstock at 651-366-3452 or email at: [cheryl.hunstock@state.mn.us](mailto:cheryl.hunstock@state.mn.us). There is no cost to have a display but space is limited and will be filled on a first come, first serve basis.

## 2016 Vendors

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Bentley Systems, Inc.

CTC (Cad Technology Center)

Carlson Software

Certainty 3D

Frontier Precision/Trimble, Inc.

Historical Surveys

Leica GeoSystems, Inc.

Martinez Geospatial

MnDOT's Geodetic Unit/CORS Network

Minnesota Operation Lifesaver, Inc.

Mosher Thomas Industries, LLC

National Geographic Survey

Truck Utilities, Inc.

Wisconsin Height Modernization Program

**We look forward to seeing you at MnDOT's 2017 Survey Technical Workshop**