



# 2022 MALSCCE Convention

*Workforce Development and Attracting the Next Generation of Surveyors*

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Please note that an inherent risk of exposure to COVID-19 exists anywhere other people are present, and even precautionary measures such as masking and social distancing cannot completely eliminate this risk. Any person who chooses to travel to participate in this in-person Massachusetts Association of Land Surveyors and Civil Engineers (MALSCCE) convention assumes all risks arising from that decision. All participants must agree to comply with all safety procedures established by the Commonwealth of Massachusetts and Centers for Disease Control and Prevention (CDC) as well as any other protocols put in place by MALSCCE, the host hotel, travel facilities, or any other applicable authorities.

Massachusetts Association of Land Surveyors and Civil Engineers  
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## DoubleTree by Hilton Leominster

99 Erdman Way, Leominster, MA 01453

**Friday and Saturday, March 18 & 19, 2022**

7:00 AM - 10:00 PM Friday

7:00 AM - 1:45 PM Saturday

### Featuring:

- **Remote Access, Live and Recorded Sessions**  
Remote access will be provided to featured sessions. Video recordings will be made for most sessions and available for registrant viewing for a 60-day period.
- **In-depth Presentations**  
On technological advances, standards of practice, and business trends impacting the land surveying and civil engineering professions
- **Convention Exhibitors**  
Showcasing the latest technologies and services
- **Plan & Field Notes Contests**  
Submitted plans and field notes will be displayed at the Convention and participants will vote for the best plan and field notes in various categories as well as the Plan and Field Notes of the Year. Download the [2022 MALSCCE Plan & Field Notes Contests Entry Form](#) to learn how you can submit an entry.
- **Networking Breaks, Benefit Auction, and more!**  
Plenty of down time to network with and learn from with your peers. To donate an item for Friday's auction to benefit the MALSCCE Education Trust simply bring it to the convention registration desk. If you wish to donate an item before the convention, contact Rich Keenan: 617/305-4110 or [rkeenan@engineers.org](mailto:rkeenan@engineers.org).

### Reserve your overnight room by Thursday, February 17, 2022!

[Click here](#) to learn how to reserve an overnight room at the DoubleTree by Hilton Leominster for Thursday or Friday, March 17 and 18 at the \$119 MALSCCE Convention attendee rate. Deluxe rooms are also available.

# 2022 MALSCCE Convention

## Session Descriptions

The 2022 MALSCCE Convention will include the following sessions:

### Friday, March 18, 2022

#### Exhibitor Quick-fire Session

Featuring a rapid-fire format during which convention exhibitors will provide a quick overview of the products and services they offer.

#### Coupling On-line Education with Workforce Development Initiatives

*A. Richard Vannozi, MS, PLS, Assistant Professor, Surveying Engineering Technology, University of Maine*

At the core of workforce development is training and education. Historically this has meant that the jobs had to be plentiful enough in one location to bring in training and attract workers, or the jobs and workers needed to be in close proximity to existing educational institutions. Combinations that have rarely existed in surveying. However, by accessing online education, workforce development programs, employers and prospective employees can couple jobs and workers and the necessary education simultaneously virtually anywhere. In just over three years, the University of Maine's online Baccalaureate has revolutionized undergraduate surveying education in the United States. In the same way, the University's online surveying undergraduate certificate program can be leveraged to create a robust workforce development program for surveying, in turn revolutionizing the creation of the next generation of technicians and professionals.

#### 50 Ways to Improve Your Surveying Measurements

**Sponsored by Beals and Thomas, Inc.**

*Joseph V.R. Paiva, PhD, Principal and CEO, GeoLearn LLC*

You often encounter best practice suggestions from many sources. How many of these do you follow? Do you share these with your team that conducts the field work? Joe Paiva takes you quickly through 50 tips, techniques, and procedures that all surveyors should be following to help ensure good measurements. They include tips for blunder prevention or to reduce know errors that are easy to overlook. With one-person so prevalent how do new field techs "learn the ropes?" If you supervise or lead teams, how do you ensure everyone is "signing from the same page?" Joe's an experienced surveyor who has also taught thousands of students in field practices, worked for manufacturers, so he has some "insider" tips, as well as his own experience as a surveyor.

#### Reinvigorating our Profession – Perspective from the Next Generation Surveyors

**Sponsored by the MALSCCE Proprietors' Council**

*Moderated by Michael A. Feldman, President, Feldman Geospatial, MALSCCE Proprietors' Council Chair. Featured Panelist include Shaine R. Bonin, Project Manager/ Survey Technician, BSC Group, Inc., Charles G. Dexter, Survey Technician, Field Chief, Feldman Geospatial and Sterling Hooke, PLS, Project Manager, Encompass Energy Services*

We have heard from survey business owners, PC Members and leaders for years about our profession: challenges, successes and where they see things headed. This year we are going to provide a fresh perspective from three next-gen surveyors so we can hear their perspectives on the profession, where they want to be and how we can reinvigorate our profession for years to come. This will be an interactive session where the moderator will encourage audience questions/comments and feedback so we can get thoughts from everyone in the business – from field to office, project management, and PLS to owners.

#### STEM Education Slideshow Presentation

*MALSCCE Public Outreach Committee*

It's never too early to start attracting the next generation of surveyors to the profession! View the presentation the MALSCCE Public Outreach Committee put together to bring to local schools to teach children about land surveyors and what they do.

#### Things About Instrumentation You May Have Forgotten or Never Learned

**Sponsored by Beals and Thomas, Inc.**

*Joseph V.R. Paiva, PhD, Principal and CEO, GeoLearn LLC*

A significant part of the error prevention and detection work can be with respect to instrumentation. The premise of this session is that by knowing some simple technology-checking techniques and a few more things about technology operation, field team members can become the first level of quality assurance in a surveying organization's work. Surveyors need to learn this content so that they can become teachers and coaches of their surveying teams.

#### MassDOT New Engineering Directive E-21-005, Subsurface Utility Engineering (SUE): It's Impact on Mass-based Engineers, Surveyors, and the Future of the Industry

*Michael Twohig, Director of Subsurface Utility Mapping, DGT Associates*

Subsurface Utility Mapping (SUM), also known as Subsurface Utility Engineering (SUE), is an engineering discipline dedicated to locating and mapping buried facilities. This session's presenter will discuss SUM, the roles and responsibilities of the owner, engineer, and contractor in protecting subsurface utility assets and the impact the latest technology will have on investigations. He will also examine national law changes requiring SUE, MassDOT's recently released Engineering Directive E-21-005, Subsurface Utility Engineering (SUE), and how the U.S. compares to other countries making effective policy changes to improve public safety through survey practices.

#### Structural Monitoring – Tracking Movement in a Fast-Paced World

*William T. Derry, Prof. LS, Technical Sales Engineer- Solutions, Monitoring, Leica Geosystems, Inc.*

Today's projects require the ability to assess measurement challenges and make decisions on which technology and approach best suit the needs of the client, who often do not understand what they need. Whether to deploy a solution involving geotechnical sensors, GNSS or automated total stations requires a solid understanding of what each can provide and how they can be deployed as a system to maximize effectiveness. This session will provide a generic review of some typical projects, considerations in planning projects and review of available technologies, without focusing on one brand. Their will be time for questions and answers, exploration of how to fully explore equipment and software capability, and common pitfalls.

### Saturday, March 19, 2022

#### Re-Engineering Surveyors and Their Businesses

**Sponsored by Beals and Thomas, Inc.**

*Joseph V.R. Paiva, PhD, Principal and CEO, GeoLearn LLC*

Surveyors often ponder their status as professionals – are they or aren't they? This program will begin by examining what surveyors do currently and how it affects their self-perception and perceptions by others. We will discuss how these perceptions are created and what we might do to alter them as individuals, a group, and as businesses. Learn how you might manage an "image improvement" program, as this type of activity is a difficult thing for surveyors to implement on their own. This session will help you formulate a plan for developing a plan for improving the perception of the profession from within, as well as by the public and affiliated groups.

#### MALSCCE Annual Meeting & Awards Presentations

*Presiding: J. Dan Bremser, PLS, Senior Project Manager, Hancock Associates, MALSCCE President. Featuring: Timothy W. Burch, PLS, Executive Director, NSPS*

Featuring the Surveyor of the Year Award and President's Award presentations. NSPS Executive Director Tim Burch will deliver the Annual Meeting's keynote address.

# 2022 MALSCCE Convention

## Registration Form

Register and pay for the 2022 Convention by credit card online at:

<https://www.malsce.org/events/malsce-2022-annual-convention-4002>

To register and pay by credit card online at the MALSCCE member rate, login using your MALSCCE assigned username and password. If you do not know your login information, call 617/227-5551.

### Registrant Information

Please note that by registering to participate in the 2022 MALSCCE Convention you are agreeing to be recorded

Name: \_\_\_\_\_  
Company (if applicable): \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_  
Dietary Restrictions: \_\_\_\_\_

### Membership Type

MALSCCE Member  Non MALSCCE Member

Members of CALS, MSLS, NHLA, NYSAPLS, RISPLS and VSLS can attend for the MALSCCE member rate. Please check the appropriate box below if you are a member of one of these organizations:

CALS  MSLS  NHLA  NYSAPLS  RISPLS  VSLS

### Registration Fees

**Full Convention** (includes access to all Convention sessions, meals, and activities except Saturday's Refresher Course)

MALSCCE Member: \$350  Non MALSCCE Member: \$460

**Remote Convention Access** (includes access to the Convention's featured sessions except Saturday's Refresher Course)

MALSCCE Member Remote Attendee: \$300  Non MALSCCE Member Remote Attendee: \$410

**Friday Convention Only** (includes access to all Friday sessions, meals, and activities)

MALSCCE Member: \$250  Non MALSCCE Member: \$360

**Saturday Convention Only** (includes access to Saturday's session, meals, and activities except for the Refresher Courses)

MALSCCE Member: \$110  Non MALSCCE Member: \$170

Please Check the Meals You Plan on Attending During Your Time at the Convention

Friday Breakfast  Friday Lunch  Friday Dinner  
 Saturday Breakfast  Saturday Lunch

**Friday MALSCCE Dinner Only**

MALSCCE Member: \$60  Non MALSCCE Member: \$65

**Total Amount Enclosed** \$ \_\_\_\_\_

Or Pay with (Check one):  Visa  Master Card  American Express

Name on Card: \_\_\_\_\_  
Card Number: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_ Security Code: \_\_\_\_\_  
Billing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Signature: \_\_\_\_\_

**Registration deadline is Friday, March 4, 2022.** To register, complete this form with credit card information and return via email or fax, [malsce@engineers.org](mailto:malsce@engineers.org) or F: 617/227-6783. You can return this completed form along with a check payable to "MALSCCE" to: MALSCCE, One Walnut St, Boston, MA 02108-3616. No refunds will be given after the registration deadline. In the event of inclement weather, call 617-227-5551 on March 17, 2022, after 3:00 PM for a convention update.

### Participate in our Virtual Exhibit!

Download the [2022 MALSCCE Convention Exhibit Enrollment Form](#).

### Become a Convention Advertiser and/or Sponsor!

Promote your organization to convention participants. Advertise in the convention participant booklet and/or sponsor a refreshment break. Download the [2022 MALSCCE Convention Advertiser & Sponsor Registration Form](#).

The 2022 MALSCCE Convention is brought to you by the Central Massachusetts Chapter

MALSCCE, One Walnut Street, Boston, MA 02108-3616 | T: 617/227-5551 | F: 617/227-6783 | [malsce@engineers.org](mailto:malsce@engineers.org) | [www.malsce.org](http://www.malsce.org)