Massachusetts Association of Land Surveyors & Civil Engineers

Basic Field Theory for Surveying Technicians

Friday, November 17, 2017
Clark University, MetroWest Campus
333 Turnpike Road (Route 9), Southborough, MA (off I-495, Exit 23A)
8:00 - 8:30 AM Registration; 8:30 AM - 4:30 PM Seminar

This one-day seminar is intended for surveying technicians in order to provide the "why" to the "what" of their everyday tasks. Many of today's surveying technicians begin their careers in the field under the tutelage of a seasoned crew chief who is tasked with getting their new assistant up and running as quickly as possible and making sure they know what to do and how to do it correctly and efficiently. This seminar is intended to provide these technicians with the theory behind why they are taught to do certain things and perform certain checks. The implications of not following such protocols on project completeness and accuracy will be a theme throughout the seminar. Through an understanding of the underlying theory of field measurement techniques, attendees will be better able to decide when, if, and how standard operating procedures can be varied to address non-standard situations in creative ways that will still meet expected accuracy requirements. Topics will include, instrument calibration and testing, field closure checks, proper instrument set-up, systematic errors, basic GPS theory, geometric considerations in survey design and the role of redundancy in accuracy, blunder avoidance and detection.

This seminar, which can be taken individually, is the first part of a two-part series for surveying technicians. Part II will be offered in 2018 and will be entitled: Basic Error Theory for Surveying Technicians. This second seminar will focus on the mathematics of measurement errors identified in the first seminar. *These two seminars are not intended for practicing Land Surveyors nor is it intended to meet continuing education requirements for practicing Land Surveyors.*

Speaker

A. Richard Vannozzi, MS, PLS

Mr. Vannozzi is a graduate of the University of Maine where he earned a BS in Forestry with High Honors and concentrations in both Forest Management and Surveying in 1984 and an MS in Forestry (with a surveying emphasis) in 2006. From 2007-2017 Mr. Vannozzi completed an additional 40 credits of graduate course work in geomatics and adult education while enrolled in the doctoral program in Natural Resources at the University of Connecticut.

Mr. Vannozzi is an Assistant Professor in the Civil Engineering Department at Wentworth Institute of Technology in Boston where he teaches geomatics, surveying and related courses.

He is registered as a Professional Land Surveyor in Massachusetts. Before reorienting his career to focus on surveying education in 2003, Mr. Vannozzi worked in private practice for 19 years, specializing in ancient boundary retracement, boundary dispute resolution, and title, boundary and zoning litigation. Mr. Vannozzi maintains a small consulting practice that specializes in complex boundary, title and zoning matters for attorneys and other Professional Land Surveyors.

Mr. Vannozzi is the 2012 recipient of ACSM's Earle J. Fennell Award for distinguished educational contributions to ACSM and the surveying and mapping profession. He is a past-president of MALSCE and, in 1998, was recognized as MALSCE's Surveyor of the Year. He is a past president of The Engineering Center and currently serves on the National Society of Professional Surveyors (NSPS) Board of Directors representing Massachusetts. In 2016, Mr. Vannozzi received a presidential citation from the National Society of Professional Surveyors for his leadership in coordinating the National Student Competition. In 2017, Mr. Vannozzi was elected a Fellow of NSPS.

Registration Information

Registration fees for the first of this two-part series are $200/person for MALSCE members and $250/person for non-members. Registration fee includes a continental breakfast, two snack breaks, lunch and all seminar handouts. Registration is processed on a first-come, first-served basis.

Registration deadline is Tuesday, November 14, 2017. No refunds will be given after this date. No-shows will be billed. Seminar registrations will be accepted via fax, mail or online. Fax your registration to 617/227-6783. Mail your registration form and check (payable to "MALSCE") to: MALSCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616. Use Visa, MasterCard or American Express to register online at (http://bit.ly/MALSCE121616). To register online for this seminar at the MALSCE member rate, login using your MALSCE assigned username and password. If you do not know your login information call 617/227-5551.

Continuing Education

This seminar is not intended for practicing Land Surveyors nor is it intended to meet continuing education requirements for practicing Land Surveyors. All seminar participants will receive a certificate documenting attendance at the end of the seminar. Please complete the registration form with your legal name, address, and other contact information so that you will be properly identified on the certificate.

Tax Information

Expenses incurred for education undertaken to maintain and improve professional skills (including travel, meals and lodging) may be tax-deductible.

Location

Clark University, MetroWest Campus, 333 Turnpike Road (Route 9), Southborough, MA

Registration Form

Basic Field Theory for Surveying Technicians

Friday, November 17, 2017, Clark University, MetroWest Campus, 333 Turnpike Road (Route 9), Southborough, MA 01772

Registrant Information

Name: _____

Company (if applicable): _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone _____ Fax: _____ Email: _____

Dietary Restrictions: _____

Registration Fees

☐ $200 MALSCE Member*

* Members of CALS, MSLS, NHLSA, NYSAPLS, RISPLS and VSLS can attend for the member rate. Please check the appropriate box below:

☐ CALS ☐ MSLS ☐ NHLSA ☐ NYSAPLS ☐ RIPLS ☐ VSLS

☐ $250 Non MALSCE Member

Total Amount Enclosed **$** _____

Make checks payable to "MALSCE" and mail with completed form to: MALSCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616

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

Card Name: _____

Card Number: _____ Expiration Date: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

- Registration fee is for the first of this two-part series. Part two will have a separate registration fee and form.
- Registration is processed on a first-come, first-served basis. Registration deadline is Tuesday, November 14, 2017.
- No refunds will be given after this date. No-shows will be billed.
- Questions? Call 617-227-5551.