

Maryland Society of Surveyors

2015 SPRING

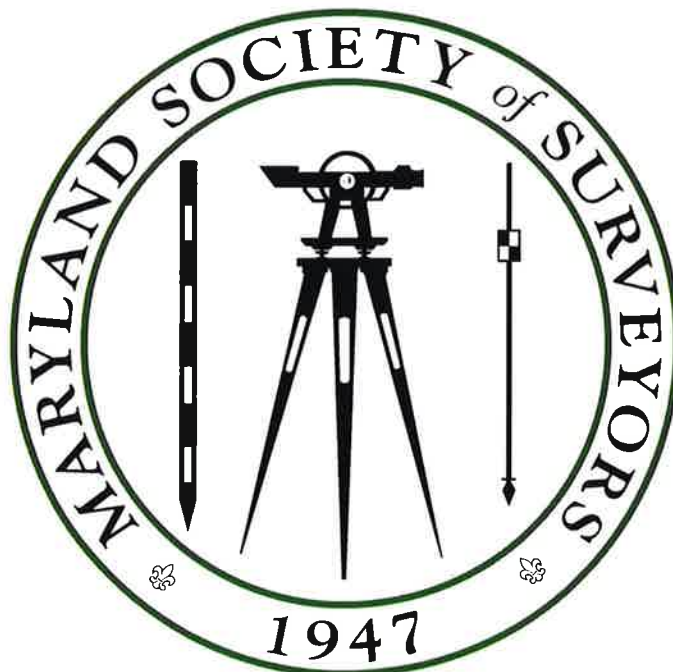
TECHNICAL

CONFERENCE

March 2 & 3, 2015

Maritime Institute of Technology
Training and Conference Center

Linthicum Heights, Maryland



Monday, March 2nd

7:00 am - 5:00 pm

■ Registration Desk Open

7:00 am - 8:00 am

■ Continental Breakfast

8:00 am - 5:00 pm Full Day Session

Surveying Railroad Corridors with Respect to Property

Presenter: Leslie Odom, CSX Real Property Inc.

8 A-Level CPCs

This course discusses the historical, legal, safety and practical problems in determining railroad corridor location with respect to the land and property rights beneath the tracks. Railroads have played a major role in the settlement and development of the United States. The importance of 'bands of steel' uniting the country was underscored by the powers granted the railroad companies to acquire land and property rights in whatever way necessary, whether by grant, fee simple absolute, fee with reversionary right, fee determinable, easement, or occupation. Surveyors involved with the original location and placement of the railroad faced hostile environment, extreme weather conditions, low pay, no beds, no showers and few hot meals. Today, our goal is to follow in their footsteps and define as best we can the original configuration of the rails and the land parcels associated with them.

8:00 am - 12:00 Noon Morning Session

Geodetic Network

Presenter: Alan Dragoo, Maser Consulting

4 A-Level CPCs

Learn how to plan and execute field work for a high precision horizontal and vertical control survey. The following topics will be covered:

- The techniques that can be used and the accuracies, advantages and disadvantages you can expect for the following: GPS Static; OPUS Static; OPUS Rapid Static; Network RTK; Conventional Traverse; and Conventional Leveling.
- Standards and specifications for these techniques.
- How atmospheric conditions can affect traverse and level data with refraction and what actions can be taken to correct this.

**See Back Cover for Monday's
Non-Licensed Associate Program**

12:00 Noon - 1:00 pm

Lunch

1:00 pm - 5:00 pm Afternoon Session

Grid and Ground Coordinate Systems

Presenter: Alan Dragoo, Maser Consulting

4 A-Level CPCs

Learn the advantages and disadvantages of the following coordinate systems and how they relate to conventional or GPS surveying:

- State Plane Lambert
- State Plane Mercator
- Tangent at Ground Level
- Local Transverse Mercator

Session will also discuss how these coordinate systems relate to different types of boundary, control or construction projects, and show different techniques to change grid coordinates to ground as well as the advantages and disadvantages of each.

**FOR MORE INFORMATION
CONTACT MSS at 800-303-6770**



ASSOCIATE PROGRAM

Monday, March 2nd

7:00 am - 5:00 pm

■ Registration Desk Open

7:00 am - 8:00 am

■ Continental Breakfast

8:00 am - 12:00 Noon Morning Session

Advanced Math Review

Presenter: Bill Henning, G.W.Stephens, Jr. & Assoc. Inc.

This session will cover a variety of math topics such as: trig for traverse computations, intersections, areas, horizontal/vertical curves. This is not intended as a prep course for a specific exam, but will cover topics applicable to CST III/LSIT exams. Attendees should bring a NCEES-approved calculator and plenty of note paper for working problems.

12:00 Noon - 1:00 pm

Lunch

1:00 pm - 5:00 pm Afternoon Session

Application Prep

*Presenter: Terry Blomquist,
Washington Suburban Sanitary Commission (WSSC)*

Thinking of applying for licensure in the near future? In the process of completing an application for the FS or PS exams? Then this session is designed for you. Recently licensed surveyor, Terry Blomquist, will lead the course offering insights and assistance to successfully complete your application. Attendees should bring their application materials (if any) and plenty of questions.

Tuesday, March 3rd

7:00 am - 5:00 pm

■ Registration Desk Open

7:00 am - 8:00 am

■ Continental Breakfast

8:00 am - 12:00 Noon Morning Session

Comparative Ethics:

**What Can Surveyors Learn from Other Professions?
Why Are Other Professions' Ethics Different
(and the same) from Surveyors'?**

Presenter: Dave Ingram, Ingram-Hagen & Co., P.L.C.
4 A-Level CPCs (Law/Ethics)

Ethical considerations of business and professional practice have always been of concern to surveyors, but in recent years surveyors have seen an increasing emphasis on the need to understand and put into practice positive ethical attitudes. Attempts are made to impose ethics on surveyors and engineers from several directions including legal, professional and moral. Additionally, surveyors find themselves interacting with other professionals on a daily basis where an understanding of their ethical obligations is critical to a positive outcome for projects that require input from many different sources. The workshop will begin with a review of ethical guidelines for surveyors. After a discussion of the history of ethics for surveyors and an examination of modern ethical guidelines for surveyors, ethical guidelines for several other professions will be examined with an eye towards areas of commonality and conflict. Finally, the workshop will conclude with a guided discussion of what ethics guidelines should be included in a code of ethics for surveyors and why these are important for professionals.

8:00 am - 12:00 Noon Morning Session

Internet Resources for the Prudent Surveyor

Presenter: Steve Jones, Charles P. Johnson & Associates, Inc.
4 A-Level CPCs

Surveyors have access to an immense amount of internet resources critical to performing their jobs, cost effectively and efficiently. Unfortunately, many may not even know how much information exists or where to look for it. Gone are the days of having to visit the courthouse for deeds and plats. No longer do you have to go to the site to "see" the property. Find out how and why the prudent surveyor should be technically savvy and how to find and access the many resources available. This course was originally offered in the Spring of 2014 but has been updated with new information.

12:00 Noon - 1:00 pm

Lunch

1:00 pm - 5:00 pm Afternoon Session

From Data Capture to Topo – Techniques and Best Practices for Terrain Modeling Data

Presenter: John Cooke, CivilTraining, LLC
4 A-Level CPCs

This class examines techniques using a variety of methods for field collection of data for digital terrain modeling. Covering methods to include conventional surveying, scanning and close-range photogrammetry, this session uses real project examples to explore the production of accurate terrain models with the greatest efficiency possible in the field. The session begins with detailed examples of the processing capabilities and requirements of popular software solutions, traditional collection of point and breakline data, including interaction with field-to-finish solutions, laser scanning with dedicated and multi-purpose platforms, and the use of photographic solutions for breakline and surface production. Post-processing capabilities of terrain modeling software are also discussed, along with recommendations for transmittal of DTM data to end users.

1:00 pm - 5:00 pm Afternoon Session

How the States Got their Shapes or Why a Straight Line is Crooked From the Annals of the United States Supreme Court

Presenter: Dave Ingram, Ingram-Hagen & Co., P.L.C.
4 A-Level CPCs

One would want to believe that with over 400 years of history and 230 years of being a country that the boundaries of the states would be settled. There have been matters before the Supreme Court since the turn of this century where the states could not decide their boundaries and rights. Starting with a detailed discussion of the multiple and long standing issues that have been in dispute between the states of Virginia / West Virginia and Maryland, participants will learn about the history behind state boundary disputes, the solutions / compromises decreed by the Supreme Court, and numerous legal principles behind the decisions including junior / senior rights, intent, riparian issues, prescription, acquiescence, and following in the original surveyor's footsteps. With these states' issues as a baseline, other Supreme Court decisions will be discussed as well as non judicial settlements and procedures involved in those settlements.

**REGISTRATION QUESTIONS?
CONTACT MSS at 800-303-6770**

MSS 2015 SPRING TECHNICAL CONFERENCE REGISTRATION FORM

The deadline for mail or fax registrations is February 20, 2015. One form per person. Mail form and check to Maryland Society of Surveyors, 1856 Old Reston Ave., Suite 205, Reston, VA 20190 or fax form with credit card information to: 844-878-4973 or scan and email form with credit card information to: margaret@marylandsurveyor.org. For more detailed information and online conference registration, go to www.marylandsurveyor.org. Register by phone: 800-303-6770

Name (first, last): _____

Firm/Organization: _____

Email: _____ Phone: _____

Address: _____

City/State/Zip: _____

First Name or Nickname for Badge: _____

Dietary or Accessibility Requirements: _____

SESSIONS: *(Please indicate your selections)*

Monday, March 2, 2015

- ☐ Associate – Non-Licensed Personnel *(Full Day Session)*
- ☐ Surveying Railroad Corridors *(Full Day Session)*
- ☐ Geodetic Network *(Morning Session)*
- ☐ Grid and Ground Coordinate Systems *(Afternoon Session)*

Tuesday, March 3, 2015

- ☐ Comparative Ethics *(Morning Session)*
- ☐ Internet Resources *(Morning Session)*
- ☐ Data Capture to Topo Techniques *(Afternoon Session)*
- ☐ How the States Got Their Shapes *(Afternoon Session)*

REGISTER ONLINE:

For more complete information or registration, go to:
www.marylandsurveyor.org

REGISTER BY MAIL:

Return the Registration Form with your credit card information or check made payable to MSS to the address below:

Maryland Society of Surveyors
1856 Old Reston Avenue, Suite 205, Reston, VA 20190

REGISTER BY FAX or EMAIL:

Fax your Registration Form with credit card information to:
844-878-4973 or scan and email your form with credit card information to: margaret@marylandsurveyor.org

QUESTIONS OR TO REGISTER BY PHONE: 800-303-6770

MSS CANCELLATION POLICY:

Cancellations received by Monday, February 16, 2015 will be refunded in full minus a \$50 processing fee. No refunds will be given after February 20, 2015.

HOTEL ROOMS (\$135 single, \$185 double) are available at the Conference Center – **410-859-5700**

FEES: *(Please check one)*

Registration fees include workshops, registration materials, continental breakfasts, breaks and lunch each day.

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|---|-------------------------------------|-------------------------|
| ☐ FULL CONFERENCE | \$430 Member | \$595 Non-Member |
| ☐ MONDAY ONLY | \$250 Member | \$330 Non-Member |
| ☐ TUESDAY ONLY | \$250 Member | \$330 Non-Member |
| ☐ ASSOCIATE
(Monday Only) | \$125 Non-Licensed Personnel | |

Total Fees Enclosed: \$ _____

METHOD OF PAYMENT:

- ☐ Check or Money Order *(payable to MSS)*
- ☐ VISA ☐ MasterCard ☐ Amex ☐ Discover

Name on Card: _____

Credit Card Number: _____

CSV Number: _____

Expiration Date: _____

Amount: \$ _____

Authorized Signature: _____

Billing Address of Card if Different from Above:
