New Hampshire Land Surveyors Association P.O. Box 689 Raymond, NH 03077

History and Development of Topographic Surveying, Isolines and Contours

> Thursday June 22, 2017 Samuel E. Paul Community Center 61 South Street Troy, NH 03465 603-242-7722

Sponsored by the New Hampshire Land Surveyors Association

Continuing Education Units: 2.0



Seminar Description

200 years ago mapmakers could only draw a picture that represented a hill, possibly shading them to show some sense of an elevation change. David Mann will take us on a "time travel" from these early times up to his firsthand methods from the 90's. After a lunch break, Rick Ladd will whisk us ahead to modern times, showing how surfaces are prepared with CAD software. He will detail how to use the surface data available at GRANIT and Point Cloud information to create a state of the art plan.

Speakers

David A. Mann resides in Keene, N.H. with his wife and best friend Toni. David is Editor of the VSLS publication, *The Cornerpost*. He was stricken with the "I want to know more" bug early in his surveying career, if not before, and has always been interested in the History of Land Surveying. He also suffers from the Civil War battlefield visitation bug and the "I can't walk past a book sale syndrome." He graduated from Bucks County Tech with a degree in Civil Technologies. He is a licensed land surveyor in Vermont and New Hampshire.

Rick Ladd is the owner of CADNET Services, LLP, a CAD and IT consulting firm located in Manchester NH. Rick Ladd has been a member of NHLSA in one capacity or another since 1988, and CAD-NET is currently a sustaining member.

General Information

This seminar is limited to the first 100 NHLSA members. To ensure a seat, **please register early** by completing the attached registration form and mail it immediately.

Price \$0.00

Deadline: Registration must be received by June 16th.

For information about registration, contact the NHLSA office at 1-800-698-5447 (in state) **or** 603 -895-4822 (out of state).

If you would like information on the seminar, contact Education Director, Bob Smith @ 603-242-3818.

Since this is a free seminar, we'd like to remind you to please prepare to bring your morning breakfast, break snacks, drinks, and bagged lunch.

Also, we'd like to thank David and Rick for donating their time and expertise with NHLSA members.

Tentative Seminar Schedule

8:00-8:15 a.m. Sign-In

- 8:15-8:30 Introduction of Speakers
- 8:30-12:00 p.m. Morning Session
- I. Introduction
- II. Exploring Ancient Civilizations and their Instruments

- III. Exploring the European Renaissance
- IV. Development of Mounds, Shading, and Hachures

10:00-10:15 Morning Break

- V. Introduction of Isolines and Contours
- VI. First Aerial Photographs
- VII. Development of Modern Contour Surveying Techniques
- VIII.My experience with Topographic Surveying from 1967 to 1990
- 12:00-1:00 Lunch Break (on your own)
- 1:00-4:00 Afternoon Session
- I. Surface creation in CAD software programs
 - a. Existing Surface model creation and contouring using CAD software
 - b. Edits of Surface models
 - c. Analysis tools of Surface models
 - d. Displays of Surface models

2:15-2:30 Afternoon Break

- II. Surface Tools for use with LiDAR, GIS, and Point Clouds
 - a. Using NH LiDAR data for surfaces and contouring
 - b. Surface data available at GRANIT and how to use it
 - c. Point Cloud information and creating surfaces from them

History and Development of Topographic Surveying

June 2	2, 2017	
Sign up for:	Time	Price
NHLSA members	8:00-4:00	\$0.00
Company		
Name		
Address		
E-mail address		
Phone		
Others attending		
Return To:		
New Ham Surveyors	pshire Land Association	

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