

Directions:

From I-84 (Waterbury – East) Exit 35 (left exit) to Route 72 East. Take Exit 9 - Main Street. At end of the exit take a right. At the next light take a right onto Chestnut Street and another right onto Main Street. ITBD is a red brick building located on the right just past ‘Subway’.

From I-84 (Hartford – West) Exit 39A to Route 9 South. Take Exit 27 – Chestnut Street (left exit). At the end of the exit take a right onto Chestnut Street and proceed to the third light. Take a right onto Main Street. ITBD is a red brick building located on the right just past ‘Subway’.

From the South (Routes 9, 91 or 15) Go north on route 9 to Exit 26 – Downtown New Britain. Go straight at the end of the exit. Take a left at the following traffic light (CVS is on the corner) onto Chestnut Street. Take your second right onto Main Street. ITBD is a red brick building located on the right just past ‘Subway’.

Parking:

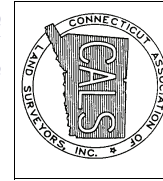
Parking is available in the Municipal Parking Garage in back of the ITBD building (access is on Chestnut Street just south of Main Street). Bring your ticket with you to be stamped for free parking

Map:

<http://www.ccsu.edu/itbd/directions/default.htm>

SECURING THE FUTURE THROUGH EDUCATION

CALS
78 Beaver Road
Wethersfield, CT 06109



**Connecticut Association
of Land Surveyors & New
England Section ACSM
Present:**

**GNSS REAL TIME
SYSTEMS (RTK & RTN)
FOR LAND SURVEYORS**

**William Henning, PLS
National Geodetic Survey,
NOAA**

Friday, March 5, 2010

**CSU Institute for Technology
and Business (ITBD)
185 Main Street
New Britain, CT**

**Professional Workshop PDH/CEU credit
applied for
NY,VT, NH, RI & ME**

For more information:
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203-933-3850

Course Summary

As the caretaker of the National Spatial Reference System, NOAA's National Geodetic Survey (NGS) is developing guidelines for new applications of positioning using real time (RT) techniques. The seminar will cover the principles and technology behind RT systems, the role of NGS in developing guidelines for RT systems, and what the guidelines mean for RT operators and users. In the final hour there will be a presentation on the findings of a recent study on the accuracy of the Geoid03 and Geoid09 in Connecticut

The Presenters

Mr. William Henning is a Registered Professional Land Surveyor with over 41 years of active experience in all phases of surveying technology. He has helped plan, construct, process, adjust and manage height modernization geodetic networks for county-wide projects in the U.S.. He has been actively involved with education/outreach to the geospatial community for almost 20 years, presenting over 75 talks and workshops on surveying and GNSS technology. He has 15 years experience working with various GNSS manufacturers' real time positioning systems. Mr. Henning is a Past President of the American Association for Geodetic Surveying (AAGS) and is an ACSM/AAGS Fellow. He is currently employed by NOAA's National Geodetic Survey (NGS) as a Senior Geodesist, where he is helping to develop guidelines and support methodology for real time positioning with state, national and international organizations.

Assoc. Prof. Thomas H. Meyer, PhD, Department of Natural Resources and the Environment, College of Agriculture, UConn. He is presently teaching undergraduate and graduate courses in GIS, Geodesy, Analytical Cartography, and GPS. Dr. Meyer has authored numerous peer-reviewed papers about surveying and mapping and teaches professional education seminars for surveyors throughout New England and the US. Prof. Meyer is a past president of the New England Section ACSM.

Schedule

- 8:00am - 8:30am - Registration
- 8:30am - 10:00am - Principles of RT Positioning
- 10:00am-10:15am Coffee Break
- 10:15am - Noon Real Time Network GNSS positioning, a confluence of technology, a new infrastructure;
- 12:00pm - 12:30pm - Lunch provided
- 12:30pm-1:00pm Role of NGS in RT GNSS Positioning
- 1:00pm-2:15pm Looking at the RTN Guidelines. A guide for operators and users.
- 2:15-2:30 Break
- 2:30pm - 3:30pm - geoid03 and geoid09 accuracy assessment in CT with applications towards GNSS orthometric heighting; Prof. Thomas Meyer, UConn

Costs, Refunds, Cancellation Policies

Registration fee for the workshop: \$200 (CALs members) \$280 (non-members). Full refunds for cancellations made 48 hours prior to the workshop.

NOTE: Up to 5 seats each will be reserved for current members of CALS who are unemployed, and full time students. The cost of the seminar will be \$20. Please provide a copy of your unemployment document with your registration. Seats will be filled on a first come first serve basis.

Length of Course Activity

The workshop consists of 6.00 contact hours of actual instruction (not including breaks, lunch and registration.) NY, 5.25 PDH for VT,ME,RI and 1.8 CEU, NH

Teaching Methods

Lecture by instructor, LCD projection of the principles and operating guidelines for RT GNSS uses. My interest is to have participants engage in active questioning of seminar materials.

Learning Objectives

The purpose of this workshop is to develop a working knowledge of RT GNSS systems and guidelines.

REGISTRATION : GNSS RTN-RTK FOR LAND SURVEYORS SEMINAR

Name: _____ Company: _____
Address: _____ Phone: _____
City: _____ State : _____ Zip: _____
Email: _____ If unemployed check line _____

Registration Fee \$200 for members*. Non-member Fee: \$280 (includes 1 year associate membership, CALS & NES) . Unemployed members and students \$20 (limited to 5 seats each). includes continental breakfast and lunch. Free Parking.

*Registration fee for all members of New England Professional Surveying Societies
Phone (860) 563-1990 Fax (860) 529-9700 email kathy@ctsurveyor.com
Make Check Payable to : CALS and send to CALS, 78 Beaver Road, Wethersfield, CT 06109