

Directions:

From the West : (heading through or from Hartford):

Take Interstate 84 East to Exit 68. From exit, take a right onto Route 195, 7 miles to UConn.

From the East : (heading from Boston toward Hartford):

Take Interstate 84 West to Exit 68. From exit, take a left onto Route 195, and follow directions above.

From the Southeast Interstate 95 to 395 North. Take Exit 81 West to Route 32 North. Follow Route 32 North to Willimantic. In town, turn right and go over bridge. Continue straight through the light and follow 195 North for 8 miles to campus.

Parking:

Behind the W.B. Young Building

Campus Map

<http://www.uconn.edu/storrs-campus.php>

CALS
78 Beaver Road
Wethersfield, CT 06109

CALS &
New England Section ACSM
Present:



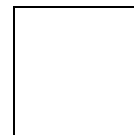
**GNSS
POSITIONING
SHORT COURSE**

**SATURDAYS,
JULY 10,17,24,31 &
AUG. 7, 2010
8am to Noon**

**W.B. YOUNG Building, Rm 305
SR 195, Univ. of CT
Storrs, CT
N 41° 48' 42.8" W 72 °14' 52.7"**

**For more information:
THOMAS.MEYER@UCONN.EDU**

CEU 5.0 / PDH 20.0 HRS applied for in
ME, NH, RI and VT



Summary:

This course will present the foundation information needed for a GNSS positioning professional to understand how their equipment works, with guidance to its proper usage. It is not a course on GNSS processing software or GNSS orthometric heighting.

Preparation:

Attendees are expected to be familiar with the operation of GNSS positioning equipment and to be proficient in surveying and mapping. Although the course will start with the basics of GNSS technologies, some prior knowledge of GNSS technology is assumed because of the speed of the presentation.

Presenter

Dr. Thomas H Meyer is an associate professor in the Department of Natural Resources and the Environment at the University of Connecticut (UConn). His Ph.D. is from Texas A&M University (College Station, 1998) where he was a research associate in the Mapping Sciences Laboratory. During his tenure at UConn, he has taught geomatics courses in geographic information science, geodesy, digital terrain modeling, global navigation satellite system surveying at the graduate and undergraduate levels. He is a member of the American Society of Civil Engineers, American Association for Geodetic Surveying, the Cartography and Geographic Information Society, the American Society for Photogrammetry and Remote Sensing, and the American Geophysical Union. He is a past president (2006-2007) of the New England Section of the American Congress for Surveying and Mapping and a member of the editorial board of the Journal of Surveying Engineering. Dr. Meyer has authored numerous peer-reviewed papers about surveying and mapping, a geodesy textbook, and teaches professional education seminars for surveyors throughout New England and the United States.

SCHEDULE

July 10

- Introduction to GPS System
- Positioning
 - Overview
 - Orbits
 - Code-Based Range Determination

July 17

- Navigation Message
- Code Positioning Demo
- Carrier Phase-based Ranging

July 24

- Error Budget
- Processing Strategies
 - Precise Point Positioning
 - Differential correction
 - Phase Differencing

July 31

- RTK/RTN
- GNSS Hardware
- Observation Techniques
 - Single vs. Dual Frequency
 - Satellite Constellations
 - Field Notes
 - Masks and trouble shooting,

August 7

- Observation Techniques, con't
 - Static vs. Kinematic
 - Occupation network Design
 - Occupation Scheduling
- Geodesy
 - WGS84, NAD83, ITRF
 - Epochs, Plate Tectonics, HTDP
 - NAD 27 and local surveys

**REGISTRATION : GNSS POSITIONING SHORT COURSE
JULY & AUGUST 2010**

Address: _____
City: _____ State : _____ Zip: _____
Email: _____

Registration Fee \$450 for all five courses. Non-member Fee: \$600

Seminar Price for all members of New England Professional Surveying Societies
Make Check Payable to : CALS and send to CALS, 78 Beaver Road, Wethersfield, CT 06109