

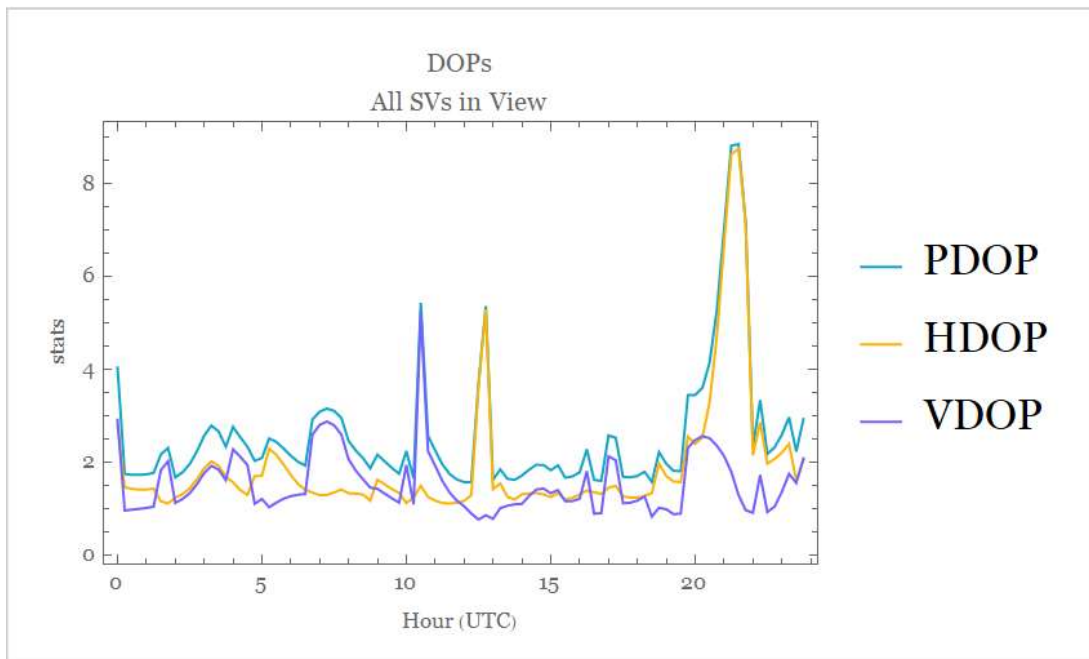


CT Association of Land Surveyors Presents:

GNSS DILUTION OF PRECISION (DOP)

--- a webinar

Tuesday, July 07, 2020 12 Noon – 1:00 PM



PRESENTER: Prof. Thomas Meyer, PhD is a professor of geodesy in the Dept. of Natural Resources and the Environment at the Univ. of Connecticut. Twice president and a Fellow of the American Association for Geodetic Surveying, Dr. Meyer has published many technical articles about land surveying, authored a geodesy textbook, and is a frequent presenter at CALS events and seminars.

WEBINAR OVERVIEW: Surveyors using GNSS positioning will likely have seen various *dilution of precision* (DOP) values reported by their data collector and processing software. It is well known that DOP values are indicative of the quality of the solution, but few know what the DOPs really are and what they really mean. This webinar defines DOPs exactly, explains the differences between them, explains what DOP values mean, and which DOP to pay closest attention to for different jobs.

WEBINAR OBJECTIVE: Upon successful completion of this course, participants will be able to:

- Knowledgeably recognize different types of DOPs and understand the conceptual difference between DOPs and standard deviations.
- Understand which DOP is most informative in which situations and, thus, be able to fine-tune GNSS data collection in the field, and better interpret GNSS reports from processing software.

COSTS, REFUNDS, CANCELLATION POLICIES: Registration fee for the webinar: \$25* for CALS members, \$50 non-members, members of other state surveying societies are welcome. Full refunds for cancellations made 48 hours prior to the webinar. *\$25 per office, multiple employees can watch for no additional cost.

SCHEDULE:

- Review of precision vs. accuracy
- Definition of DOP *vis a' vis* standard deviation, the DOP taxonomy
- Review of GPS orbits and space-vehicle (SV) visibility over time
- Review of strength-of-figure as it pertains to GNSS multilateration
- Examples of SV availability and its effect on the various DOPs
- Summary with some insights and pro-tips

CONTINUING EDUCATION CREDIT:

Professional Development Hours (PDH) will be awarded to each participant who passes a written evaluation with a score of 70 or above. This is a “live” presentation with two-way communication by chat as well as microphone, which meets NY requirements for a live seminar. PDH credits will be requested for NY 0.1 CEU or 1.0 PDH, NH 0.25 CEU, VT, RI, ME 1 PDH.

**REGISTRATION:
GNSS DILUTION OF PRECISION - JULY 7, 2020**

Name: _____ Company: _____

Address: _____ Phone: _____

City: _____ State: _____ Zip: _____

Email: _____

Credit Card Number: _____ Expiration date: _____

Signature: _____

Registration Fee \$ \$25 for *CALs members (per firm), \$50 non-members, \$25 students.
*Registration fee for all members of New England & NY Professional Surveying Societies

Make Check Payable to:

CALs and send to CALs, 78 Beaver Road, Suite 2-J, Wethersfield, CT 06109
Phone: 860-563-1990 Fax: 860-529-9700 email: kathy@ctsurveyors.org

**NEXT SEMINAR: COMPUTING HAUNCHES FOR BRIDGE
GIRDERS**, a hands on workshop in reading and understanding bridge plans, late July.
Presented by John J. Doody PS/PE (a VERY reluctant bridge girder walker...)

SECURE YOUR FUTURE THROUGH EDUCATION