Discovering the Opportunities and Pitfalls in GNSS Surveying
What are the greatest strengths and critical weaknesses of GNSS?

Reviewing GNSS Fundamentals
Basic science in common language
Error sources and their effects

Understanding Real Time Kinematic (RTK) methods
Conventional RTK error propagation
Network RTK fundamentals
Continuously Operating Reference Stations (CORS)
Accuracy and precision

Learning to Trust but Verify
How do I know whether GNSS is telling the truth?
Understanding GNSS observed errors

Applying Datum Transformations
Basic geodesy and State Plane Coordinate Systems
Transformation concepts in basic terms
Adopting and creating datums
Low distortion projections
Vertical datums and the geoid

Strengthening Field Practices
Survey planning with GNSS almanac data
Error management

Using Online Positioning User Service (OPUS)
OPUS concepts
Interpreting results
Planning for higher accuracy

Enhancing Office Processes
Data management
Common mistakes

Exploring Case Studies
Best practices shared by experienced GPS users
Faculty

Todd W. Horton, PE, PLS

Mr. Horton is an associate professor and the director of five construction degree programs at Parkland College in Champaign, Illinois. He has taught surveying and construction management since 1998. In 2001, in partnership with local surveying professionals, he launched a new Surveying Technology associate degree program at Parkland College. In addition to teaching, he has presented continuing education seminars in 23 states.

Mr. Horton has more than 20 years of experience in planning, design, construction, surveying and maintenance of civil engineering projects including commercial structures, residential subdivisions, airfields, utility systems and highways. He has acquired significant public sector experience with the US Air Force and the Illinois Department of Transportation as well as private sector experience with engineering and surveying firms in central Illinois.

Mr. Horton is the faculty advisor of the Parkland College Student Chapter of the Illinois Professional Land Surveyors Association. He received his B.S. Civil Engineering degree from the University of Illinois at Urbana-Champaign.

Here’s what past attendees say about the program and speaker Todd Horton:

“Highly motivated instructor.” – Land Surveyor

“Excellent speaker. He presents a technical subject in common sense terms.”

– Civil Engineer

“Superb! Well informed. Great survey experience.” – Land Surveyor

“Very knowledgeable. Easy to understand.” – Land Surveyor

About the Seminar

Monday, June 2, 2014

Holiday Inn Airport SE-Mall Area (651) 454-3434
2700 Pilot Knob Road • Eagan, MN 55121

$269 for one or $249 each for three or more from the same company, registering at the same time. Each registration includes one copy of Best Practices in GNSS Surveying.

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Best Practices in GNSS Surveying

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