



Presents a one day seminar on:

New Technologies in Mapping, Site Investigation and Inspection

**Wednesday
May 15, 2019**

**Mukogawa Fort Wright Institute
Commons Building
4000 W. Randolph Road
Spokane, WA
(509) 328-2971**

The ASCE Inland Empire Section is pleased to present a one-day workshop on High Resolution Mapping and other Survey-related topics.

The seminar will include presentations on:

- UAVs In Surveying and Construction
- High Resolution Mapping
- Mobile and Static Laser Scanning
- Underground and Utility Mapping
- Ground Penetrating Radar
- Cultural Resource Studies
- Landslide Monitoring and Evaluation
- Remote Sensing and Monitoring in GIS

Presenters for the workshop include:

- Matthew Kumpula, PLS, RP, David Evans and Associates, Inc.
- Duffy Haggarty, PLS, David Evans and Associates, Inc.
- Bryan Hyde, Avista Utilities
- Steven Hackenberger, Central Washington University
- Darren Beckstrand, CEG, CPG, Landslide Technologies
- Brian Clarkson, PLS, T-O Engineers

This course qualifies for 6 PDH continuing education hours.

Agenda

<u>Morning</u>		<u>Afternoon</u>	
8:15 to 8:45	Registration and Coffee	12:10 to 1:00	Ground Penetrating Radar for Cultural Resource Studies - Steven Hackenberger, Central Washington University
8:45 to 8:50	Welcome and Introduction - Alan Gay, Stantec		
8:50 to 9:40	Technology Progression: What Is Now & What Is Next in Construction Technology - Matthew Kumpula, David Evans and Associates, Inc.	1:00 to 1:50	Utilizing High Resolution Mapping in Geotechnical Applications - Darren Beckstrand, Landslide Technology
9:40 to 10:30	3D Laser Scanning - Duffy Haggarty, David Evans and Associates, Inc.	1:50 to 2:10	Break & refreshments
10:30 to 10:50	Break & refreshments	2:10 to 3:00	Geospatial Services and Remote Sensing Solutions - Brian Clarkson, T-O Engineers
10:50 to 11:30	Mapping the Vaults: Downtown Underground Surveys - Bryan Hyde, Avista Utilities	3:00 to 3:45	Drones, Productivity, and Feelings - Matthew Kumpula, David Evans and Associates, Inc.
11:30 to 12:10	Lunch	3:45 to 4:00	Q&A Roundtable
		4:00	Adjourn

Instructor Bios

Matthew Kumpula has been the head of Mobile Mapping & sUAS Flight Operations for David Evans and Associates, Inc. (DEA) since 2015. Based in Tacoma, Washington, he serves all DEA offices in the Western US. Matt is a Professional Land Surveyor in the State of Washington and has specialized in measuring, mapping and modeling the built world since 2000. He is a technologist working with inertial measurement, sUAS, AR, VR, SfM, thermography and other 3D/4D technologies. Matt earned his education in Civil Engineering & Land Surveying at St Cloud Tech in the State of Minnesota and also spent 3 years at St Cloud State in additional studies in Geomatics, Geodesy and GIS. His body of work spans both public, private and military sectors primarily from the AEC role with a focus on the Western US.

Duffy Haggarty is a professional land surveyor who has 26 years of combined experience with land surveying and information technology. An associate with David Evans and Associates, Inc., Duffy serves as the regional survey manager for DEA's Mountain West Region. Through his in-depth knowledge and understand of surveying and technology, he provides complete and efficient solutions by combining the use of conventional and technological applications such as mobile laser scanning, static scanning, UAV surveys, bathymetric surveys, and GPS surveys.

Bryan Hyde is a transmission engineer with Avista Utilities. He is responsible for the design as well as project and construction management of multiple 115-kV and 230-kB transmission lines every year, which consist of upgrading the existing conductors and structures. Bryan is a native of Spokane and a graduate of the University of Idaho.

Darren Beckstrand is a Senior Associate Geologist with Landslide Technology, a division of Cornforth Consultants, in Portland, Oregon. He is a registered geologist in Oregon, Washington, Alaska, Wyoming, and Idaho. His areas of expertise include geotechnical instrumentation, geotechnical asset management, and the evaluation, investigation, and mitigation of landslide and rockfall hazards. He is a Past-Chair for the Oregon Section of the Association of Engineering and Environmental Geologists and current serves as the co-chair for the Transportation Research Board's subcommittee on Geotechnical Asset Management. .

Brian Clarkson is the Geospatial Services Manager for T-O Engineers. He has been managing GIS and UAV projects with them for the last five years out of their Cody, WY Office. Before working for T-O Engineers, he was the Senior Engineer Assistant for the Town of Grand Island, NY. During his employment for the Town, one of his responsibilities was the management and development of their Municipal GIS. This experience has provided him with knowledge of Municipal GIS from both the consultant and public service perspective. Brian's M.S. in Geography from the University at Buffalo and 10 years of surveying experience has provided him with the tools for developing spatial solutions for a vast array of geospatial projects. Currently, Brian leads T-O's Geospatial Team for Airport Airspace Analysis Projects, Airport Layout Plans, Municipal GIS, Online Mapping, miscellaneous GIS Services, and their Remote Sensing Services, including a fleet of quad-copter UAVs and imagery processing specialists.

Registration

Cost: \$130.00 (includes seminar, lunch and refreshment breaks)

Full time students are entitled to a reduced enrollment fee of \$25.00.

A late fee of \$50 will be in effect after regular registration closes, subject to available space.

Education Credit:

0.6 CEUs (6 PDHs) for attendance of this course.

Deadline Notice:

Space is limited to 60. To ensure participation, enroll early.

Regular Registration will close on May 7th, 2019.

Registration Process:

Go to <https://ascetechnicalseminar.eventbrite.com> to register and provide payment

For more Information:

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