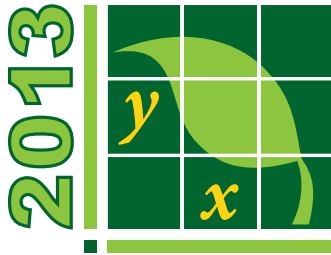


# 3rd Annual Conference



# Field Technology Conference

## Field Technology for Data Collection and Mapping in Forestry and Natural Resources

October 23-24, 2013 • Portland, OR

This year's Field Technology Conference promises to be the best ever, with technical papers and demonstrations of all kinds of leading-edge technology from GPS to 3D printing to UAVs and mobile devices. In addition to the popular outdoor demonstration area, we've added a "Doctor's Office" for answering your hardware and software questions. We've also added a CGSIC (Civil GPS Service Interface Committee) track where you can hear presentations directly from US Air Force officers who are in charge of managing the GPS satellites. Don't miss this unique event that promises to bring you up to speed on the latest geospatial trends and technologies.

### Wednesday, October 23, 2013

7:30 **Check-in/Registration**

8:30 – 10:00 **General Session: Looking Down the Road**  
*A panel of speakers will lead a discussion on emerging technology trends for mapping/surveying hardware, current and future developments in GPS, mobile devices, 3D printing and UAVs.*

10:00 – 10:30 **Coffee Break**

10:30 – 11:15

Session A	Session B	<b>The Doctor is in.</b> Schedule your time for one-on-one personal help with hardware and software issues. No problem too large or too small. Ask an expert for advice on your own problems or issues.  20 minute sessions on any Garmin/Magellan (Consumer Grade) issues, how to's or unique situations.
<i>UAVs for Mapping Agriculture Fields</i> Don Horneck, Oregon State University	<i>Real-time Centimeter-accurate GPS Corrections</i> Tim Smith, National Park Service	
11:15 – 12:00		
<i>How to Collect Best Possible GPS Data Under Tree Canopy</i> Jon Aschenbach, Resource Supply	<i>Hooking Up High Precision GPS to Ipad and Smart Phones</i> Speaker TBA	

12:00 – 1:00 **Lunch**

**1:00 – 1:45 Concurrent Technical Sessions**

Session C		Session D		Hands-On Demo 1	Hands-On Demo 2
<p><i>Space Weather Effects on GPS</i>  <b>Joe Kunches</b>, NOAA Space Weather Prediction Center (Invited)</p>		<p><i>Successfully Using Smartphones for GIS Data Collection</i>  <b>Craig Greenwald</b>, GeoMobile Innovations</p>		<p>Small group demonstrations with time to try out the equipment and ask questions.</p>	
<p><b>1:45 – 2:30</b></p>					
<p><i>Photogrammetric Point Cloud: LiDAR-Like Results thru Photogrammetry</i>  <b>David Shear</b>, Eagle Digital Imagery</p>		<p><i>Free Mapping and Surveying Products/Services from the National Geodetic Survey</i>  <b>Michael Dennis</b>, National Geodetic Survey</p>		<p><i>Laser Range Finders Hands-on Demo</i>  <b>Richard Ash</b>, GeoMobile Innovations</p>	<p><i>Using ArcPad in the Field</i>  <b>Jon Aschenbach</b>, Resource Supply</p>

**2:30 – 3:00 Coffee Break**

**3:00 – 3:45**

Session E		Session F	
<p><i>ArcGIS Online</i>  <b>John Sherrard</b>, ESRI (Invited)</p>		<p><i>Measuring Biomass Using LiDAR, Lasers, and Lucky Guesses</i>  <b>Justin Long</b>, Oregon State University</p>	
<p><b>3:45 – 5:00</b></p>			
<p><i>Inexpensive 2cm Receivers for Non-Surveyors</i>  <b>Mark Silver</b>, iGage Mapping Corp.</p>		<p><i>Really Cool National Park Service Projects</i>  <b>Tim Smith</b></p>	
<p><b>The Doctor is in.</b>            Schedule your time for one-on-one personal help with hardware and software issues. No problem too large or too small. Ask an expert for advice on your own problems or issues.             20 minute sessions on any Trimble/Ashtech (Professional Grade) issues, how to's or unique situations</p>			

**5:00 Session Adjourns – End of Day 1**

**Thursday, October 24, 2013**

**8:00 – 9:15**

Session G	
<p><i>Advances in Airborne Remote Sensing for High Resolution Vegetation Management</i>  <b>Will Fellers</b>, WSI Applied Remote Sensing and Analysis</p>	<p><b>Civil GPS Service Interface Committee (CGSIC) Regional Meeting</b> (open to all attendees)            CGSIC is a worldwide public forum where civilian GPS users have the opportunity to interact with U.S. GPS authorities. It is the only such forum in existence.</p>

**9:15 – 10:00**

<p><i>Factors That Influence Accuracy in Timber Cruising</i>  <b>Darian Domes</b>, Cascade Timber Consulting</p>	<ul style="list-style-type: none"> <li>• Update on GPS Satellites from the U.S. Air Force. New satellites and new signals</li> <li>• Update on the NDGPS program from the U.S. Coast Guard</li> </ul>
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**10:00 – 10:30 Coffee Break**

10:30 – 11:15

Session G	
<p><i>Tips and Tools for ArcGIS</i> OR Dept. of Geology and Mineral Industries (Invited)</p>	<ul style="list-style-type: none"> <li>•Using LiDAR for Transportation Applications, OR State Univ. and OR Dept. of Transportation</li> <li>•Experimental Landing System, Boeing Flight Test Center</li> <li>•National Geodetic Survey Update, Oregon State Advisor</li> </ul>

11:15 – 12:00

<p>Speaker TBA</p>	<ul style="list-style-type: none"> <li>•Connected Vehicle Highway Network, U.S. Dept. of Transportation</li> <li>•Regional Monitoring of Plate Tectonics</li> </ul>
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12:00 Lunch

1:00 – 2:00 Concurrent Technical Sessions

Session H	Hands-On Demo 3	Hands-On Demo 4
<p><i>Update on and Review of Mobile Forestry Apps for Android and iOS Devices</i> Roger Bryant, Genesis Forest Management</p>	<p>Small group demonstrations with time to try out the equipment and ask questions.</p>	<p><i>3D Printing demonstration – Speaker TBA</i></p>
		<p><i>Mobile GIS</i> Jon Sherrard (invited)</p>

2:00 – 4:00

<p>Discussion Panel: Round up of conference speakers on field technology – Moderated by Eric Gakstatter Door prize drawings: An impressive array of mobile devices, tablet computers, and software. Must be present to win.</p>
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4:00 Session Adjourns

## Conference Information

### Location

The conference will be held at the Holiday Inn Portland Airport Hotel. The Holiday Inn is located at 8439 NE Columbia Blvd., 2 miles from the Portland International Airport and 10 miles east of downtown Portland. Driving instructions are available at [www.hiportlandairport.com](http://www.hiportlandairport.com) or by calling 503-256-5000.

### Lodging information

Reduced rate lodging is available at the Holiday Inn by calling 503-256-5000 and by mentioning Field Technology Conference. The rate for a single room or double room is \$99 plus tax. After October 1, 2013 the reduced rate will be subject to availability.

### Registration

The registration fee is \$255 if received by October 15, 2013 or \$295 if received after October 15. The registration fees include 2 lunches and refreshments. Checks should be made payable to Western Forestry and Conservation Association. Purchase orders, VISA/MasterCard, and American Express are accepted. Tax id # 930-331-712. No refunds for cancellations after October 15, but substitutions are always welcome. Registration is available online at [www.westernforestry.org](http://www.westernforestry.org)

### SAF CFE credits

Attendees will be eligible for CFE hours through the Society of American Foresters.

### Registration Questions?

Call Annie at (888) 722-9416 or (503) 226-4562 or [richard@westernforestry.org](mailto:richard@westernforestry.org)

### Western Forestry and Conservation Association

4033 SW Canyon Rd., Portland, OR 97221 • 503-226-4562 • 888-722-9416 • Fax: 503-226-2515

**Register online at [www.westernforestry.org](http://www.westernforestry.org)**

## REGISTRATION FORM

NAME \_\_\_\_\_

ORGANIZATION AND AFFILIATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

EMAIL \_\_\_\_\_ TEL \_\_\_\_\_

### Registration

		AMOUNT
<b>BEFORE October 15, 2013</b>	<b>\$255</b>	_____
<b>AFTER October 15, 2013</b>	<b>\$295</b>	_____

### Questions?

Call 888-722-9416 or 503-226-4562  
or [annie@westernforestry.org](mailto:annie@westernforestry.org)

Western Forestry and Conservation Association  
4033 SW Canyon Rd. • Portland, OR 97221  
503-226-4562, 888-722-9416 FAX: 503-226-2515

Register on-line at: [www.westernforestry.org](http://www.westernforestry.org)

### Payment Method

#### 1. Please make check payable to:

WFCA  
4033 SW Canyon Rd.  
Portland OR 97221

#### 2. Purchase order # \_\_\_\_\_

#### 3. Charge to:            MC            VISA            AmEx

(please circle)


Account # \_\_\_\_\_

Expiration Date \_\_\_\_\_ Security Code \_\_\_\_\_  
(on back of card)

#### 4. Register online at [www.westernforestry.org](http://www.westernforestry.org)

**Register by mail or online at [www.westernforestry.org](http://www.westernforestry.org)**

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