

# 26<sup>th</sup> Annual Road Design Conference

## *Excellence in Engineering to Enhance County Safety & Productivity*

**Day 1 - Tuesday - November 3<sup>rd</sup>, 2015**

**Conference Kick-Off –Technology Day Training Presented by Autodesk® Inc.**

		ROOM
8:00am-9:00am	<b>Registration and Full Breakfast (provided)</b>	<b>Centennial Ballroom</b>
9:00am-9:10am	<b>Welcome: Steve Stamatoplos &amp; Jeff Tenace, Autodesk® &amp; Jim Ayres, CRAB</b>	<b>Stehekin A &amp; B</b>
9:10am-10:20am	<b>Autodesk’s Surveyor’s Forum</b> Come “Hear, Share, & Challenge” along with other attendees, an interest in the Surveying Industry. This Surveyor’s Forum is an opportunity for you and industry leaders to meet and discuss a variety of topics, ideas, concerns, and participate in the exchange of technical surveying information.	<b>Stehekin A &amp; B</b>
10:20am-10:35 am	<b>Break</b>	<b>Centennial Ballroom</b>
10:35am-12:00pm	<b>Civil 3D Hydraulics &amp; Hydrology</b> Overview of SSA, Hydraflow, and River & Flood Analysis capabilities within Civil 3D; with an emphasis on streamlining the transfer of design data to the various analysis programs and back again.	<b>Stehekin A &amp; B</b>
12:00pm-1:00pm	<b>Lunch (provided)</b>	<b>Centennial Ballroom</b>
1:00pm-2:15pm	<b>Sub Assembly Composer</b> This session will provide an overview of the capabilities of Subassembly Composer to facilitate the construction of more complex and intelligent roadway corridors, including guardrails, retaining walls, roundabouts, and ditches. We will also review the application of transitions to the roadway assemblies.	
2:15pm-2:30pm	<b>Break</b>	<b>Centennial Ballroom</b>
2:30pm-3:45pm	<b>Infraworks Point Cloud Capabilities</b> Discussion about Autodesk enhancements on point cloud handling and information extraction capability that brings points to design and models as quick and efficient as possible. Users will be able to use, visualize and register PointClouds in ReCap, process, extract information and model in InfraWorks and create surface and perform design analysis in Civil3D (and other Autodesk products).	<b>Stehekin A &amp; B</b>
5:00pm-7:00pm	<b>Hospitality (Appetizers Provided) – sponsored by Autodesk® Inc. (Dinner on your own)</b>	<b>Suite 5423</b>
4:00pm-	<b>Washington County Surveyor’s Roundtable</b> <i>Moderators: Phyllis Kanyer, Kitsap County &amp; Bryan Thorp, Benton County.</i> Join Bryan & Phyllis along with software/hardware vendor’s to discuss in further detail the issues that were generated from the mornings Surveyor’s Forum. Also discuss how your county works with survey data, services your survey department provides, who provides quality control, horizontal & vertical datum, CAD symbols, point creation, and present samples of your county’s workflow between Survey and Design. Located in the vendor area to allow vendor’s to showcase their systems and provide possible solutions to issues that were brought up from the morning discussions.	<b>Centennial Ballroom Vendor Exhibit Area</b>



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### Day 2 - Wednesday- November 4<sup>th</sup>, 2015

		ROOM
8:00am-9:00am	<b>Registration with Full Breakfast (provided)</b> <b>Vendor Exhibits Open</b>	<b>Centennial Ballroom</b>
9:00am-9:15am	<b>Introductions: Jay Weber, Steve Hillesland, Walt Olsen, PE &amp; Jim Ayres, PE - County Road Administration Board</b>	<b>Centennial Ballroom</b>
9:15am-9:45am	<b>Host County Welcoming: Eric Pierson, PE, Chelan County Public Works Director &amp; County Engineer. Assessment of the Chelan &amp; Okanogan Complex Fires. "After the Smoke Clears": Risks and issues after the fire and what realistically can be done from a County Public Works standpoint.</b>	<b>Centennial Ballroom</b>
9:45am-10:45am	<b>OSO Slide</b> - On Saturday, March 22, 2014 a major landslide occurred four miles east of Oso, Snohomish County. A portion of an unstable hill collapsed, sending mud and debris across the North Fork of the Stillaguamish River, consuming a rural neighborhood, and covering an area of approximately one square mile. Forty-three people perished. Snohomish County personnel, Sheriff Chief Pilot Bill Quistorf** helped craft the first emergency COA for unmanned systems that allow manned and unmanned aircraft to work in the small space and he won an award for it. Matt Zybas*, Public Works Solid Waste Division Director, was instrumental in providing outstanding leadership and service in the emergency response and debris removal following the SR 530 landslide. With approximately 200,000 cubic yards of material created by the landslide to sift through, Matt's efforts, abilities in working with FEMA and numerous other agencies and determination helped the communities in his county get back on their feet again. (*2015 WSACE Program Manager of the Year Award; **Airbus Helicopters Golden Hour Award)	<b>Centennial Ballroom</b>
10:45am-11:15am	<b>Break</b>	
11:15am-12:00pm	<b>Keynote: "Dynamic times ahead for Civil Engineer's &amp; Autodesk", Daniel Philbrick, Director, Civil Infrastructure Products</b> Designing tomorrow's Infrastructure is becoming increasingly challenged by balancing economic, safety, schedule and sustainable goals. At the same time, public engagement and acceptance creates additional demands that can be critical to a projects' success. In this session, hear and see the future of how infrastructure will be designed through Autodesk Civil Infrastructure design technology. This presentation will highlight how technology trends will transform how the infrastructure professionals plan, design and deliver Infrastructure projects.	<b>Centennial Ballroom</b>
12:00pm-1:00pm	<b>Lunch (provided)</b>	<b>Centennial Ballroom</b>

<b>Choose One:</b>	<b>Track A Presentation - Stehekin A</b>	<b>Track B Presentation - Stehekin B</b>	<b>Stehekin A &amp; B</b>
1:00pm-1:45pm	<p><b>Matt Unzelman*** PE, Brian Meier, PE and Gordon Coleman, Thurston County Public Works</b>  <b>Topic: "County Bridge Emergency Replacement"</b>            At last year's RDC you may recall the presentation of I-5 Skagit River Bridge replacement at the DOT level. This year see it at the county level. Matt Unzelman will be presenting this session regarding Littlerock Road Bridge Replacement (L-4) that was designed and built in 2014 as an example of emergency replacement at the county level.  <b>***Note: Matt Unzelman &amp; Brandon Hicks co-received the Project Manager of the Year Award at the 2015 WSACE (Washington Association of County Engineer's) Conference.</b></p>	<p><b>Benson Burluson EIT, Kitsap County Public Works</b>  <b>Topic: "Water as a Resource"</b>            Benson will run you through an example using WWHM2012 for the group. Most of the Western counties are familiar with Ecology standards, but the Eastside may find it interesting. If not you will see how lucky you are <u>not</u> dealing with it, YET! Benson will demonstrate the current standards, including design and drafting of Bioretention cells. As many of you know, these cells are LID BMPs and work very well with Ecology's minimum requirement for storm water treatment.</p>	
<b>Repeat:</b>	<b>Track A Presentation - Stehekin A</b>	<b>Track B Presentation - Stehekin B</b>	<b>Stehekin A &amp; B</b>
2:00pm-2:45pm	<p><b>Matt Unzelman*** PE, Brian Meier, PE and Gordon Coleman, Thurston County Public Works</b>  <b>Topic: "County Bridge Emergency Replacement"</b></p>	<p><b>Benson Burluson EIT, Kitsap County Public Works</b>  <b>Topic: "Water as a Resource"</b></p>	
2:45pm-3:00pm	<b>Break – Sodas &amp; Cookies sponsored by PacifiCAD</b>		<b>Centennial Ballroom</b>
<b>Choose One:</b>	<b>Track A Presentation - Stehekin A</b>	<b>Track B Presentation - Stehekin B</b>	
3:00pm-3:45pm	<p><b>Matt Balder, PE, &amp; Jim Ayres, PE, CRAB</b>  <b>Topic: "UAV - Mapping Stockpile Sites &amp; Other UAV Applications"</b>            This past April, CRAB held its first UAV demonstration Class in Thurston County. This course was designed especially for Counties that want to leverage off this new innovative technology and how Counties can best utilize this tool for the best rate of return of all the mapping tools in their toolbox. Matt &amp; Jim will cover the results of this 1<sup>st</sup> demonstration.</p>	<p><b>John Donahue, PE - Washington State Department of Transportation former CRAB Design Engineer</b>  <b>Topic: "Practical Design at WSDOT"</b>            This is an approach to making project decisions that focuses on the need for the project and looks for the cost-effective solutions. It engages local stakeholders at the earliest stages of defining scope to ensure their input is included at the right stage of project design.</p>	
<b>Repeat:</b>	<b>Track A Presentation - Stehekin A</b>	<b>Track B Presentation - Stehekin B</b>	<b>Stehekin A &amp; B</b>
4:00pm-4:45pm	<p><b>Matt Balder, PE, &amp; Jim Ayres, PE, CRAB</b>  <b>Topic: "UAV - Mapping Stockpile Sites &amp; Other UAV Applications"</b></p>	<p><b>John Donahue, PE - Washington State Department of Transportation former CRAB Design Engineer</b>  <b>Topic: "Practical Design at WSDOT"</b></p>	
5:30pm – 7:00ish	<b>Hospitality (Appetizers Provided) – sponsored by Autodesk® Inc. (Dinner on your own)</b>		<b>Suite 5423</b>

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**Day 3 - Thursday - November 5<sup>th</sup>, 2015**

8:00am -9:00am	<b>Full Breakfast (provided)</b>	<b>Centennial Ballroom</b>
	<b>General Session Presentation</b>	<b>Centennial Ballroom</b>
9:00am-10:00am	<p><b>Julie Foguene, SenseFly - Cheseaux-sur-Lausanne, Switzerland</b>  <b>Session Description:</b> SenseFly develops and produces aerial imaging UAV's for professional applications such as the <b>eBee</b> UAV. Julie will be demonstrating the intelligent UAV bridge inspection &amp; mapping UAV called the <b>eXom</b>. The sensor-rich drone is an excellent tool for County bridge inspecting that offers <i>TripleView</i> imaging and advanced situational awareness for your county bridge inspections.</p>	<b>Centennial Ballroom</b>
10:00am-10:30am	<b>Break</b>	<b>Centennial Ballroom</b>
10:30am-11:00am	<p><b>Autodesk – Steve Stamatoplos</b>  <b>Session Title: <i>The Future of Making Things</i></b>  <b>Session Description:</b> Social, environmental, and economic drivers are changing how we approach planning, land use, sustainability, infrastructure design, construction, and operations. Technology is advancing to help us meet these challenges and for the first time allowing us to model, analyze, and simulate multiple alternatives, real time, and in context of the built world. This presentation will touch on these important topics and showcase technologies that enhance our abilities to plan, build, maintain, and manage livable areas. Everyone understands we cannot simply pave our way out of all the challenges that we face; this presentation will share new approaches to improve and accelerate sound decision making. Finally, it will touch upon technologies such as 3D printing and robotic construction that will positively impact our future.</p>	<b>Centennial Ballroom</b>
11:00am-Noon	<p><b>Lunch and Conference Wrap Up:</b> Lunch will be provided as well as announcements on the results of the annual Project Design contest, Tips n' Tricks, and Geo-Caching Contest Winner. Door Prizes for submitted conference evaluations (must be present to win). See you next year back here in Chelan for the 2016 RDC!</p>	<b>Centennial Ballroom</b>