



## 25<sup>th</sup> Annual Road Design Conference – Day 1 Agenda

### County Road Design Systems – A proud journey over the past quarter century!

Day 1 - Tuesday - November 4<sup>th</sup>, 2014

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

8:00am – 9:00am	<b>Registration and Continental Breakfast (provided)</b> Introductions: Mr. Craig Sanders, Autodesk® & Jim Ayres, Washington State County Road Administration Board	
<b>Time</b>	<b>Computer Lab Work</b>	<b>Room</b>
9:00am – 4:00pm	<p><b>A Working Session with You &amp; Autodesk.</b></p> <p><b>Infraworks</b> - A lot has changed since last year’s very successful day spent with Autodesk experts so come explore new ways to analyze and communicate projects through the latest capabilities available in InfraWorks 360. Using new analysis tools for road, bridge, and drainage see what is possible when evaluating proposed projects for better decision making earlier in the project lifecycle. You can bring your project data or use ours and your laptop and we will provide the software and coaching. You will learn the latest &amp; greatest of Autodesk’s hottest products, Infraworks, and how to rapidly generate conceptual designs and easily create high impact visualizations of your project. Just like last year, this will be an interactive fun session. Peers will vote for the best visualizations created at the end of the day. Remember Pierce County’s 1st place last year? Prizes for the three best visualizations will be awarded in the opening session the next day.</p> <p><b>3D City/County Modeling</b> - This session demonstrates how to capture and create very light weight, geospatially accurate, 3D objects for usage within several of the Autodesk solutions, including; InfraWorks, 3Ds Max, Civil 3D, Gaming and Simulation. These objects also have the appropriate materials on their faces, making them totally realistic. Users will leave this session knowing how to create these highly accurate models the most efficient way possible.</p> <p><b>Vehicle Tracking</b> - New to Autodesk software is a comprehensive transportation analysis and design solution for vehicle swept path analysis. The software enables engineers and designers at government agencies to predictably evaluate vehicle movements on transportation or site design projects.</p>	<b>Ballroom A</b>
12:00pm – 1:00pm	<b>Lunch (provided)</b>	
5:00 pm – 7:00 pm	<b>Hospitality &amp; Social Gathering – Appetizers Provided (Dinner on your own)</b>	<b>Social at the Suite</b>
	<b>User Group Meetings – On own.</b>	<b>“</b>



## 25<sup>th</sup> Annual Road Design Conference – Day 2 Agenda

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Day 2 - Wednesday-November 5th, 2014

8:00am – 9:00am	Registration with Full Breakfast (provided) - Vendor Exhibits' Move-in/Setup	Room
9:00am – 9:30am	<b>Introductions: Jay Weber Executive Director, Steve Hillesland, Assistant Director Technology &amp; Jim Ayres P.E., Design Systems Engineer Washington State County Road Administration Board and Spokane County Representative</b>	Ballroom A
9:30am – 10:15am	<p><b>Skagit River Bridge Collapse &amp; Replacement</b>            On May 23, 2013, a portion of the bridge collapsed into the Skagit River near Mount Vernon after being struck by an oversize load. More than 71,000 drivers use this stretch of I-5 each day. The Washington Department of Transportation (WSDOT) hired the design-build team of Max J. Kuney Company, with Parsons Brinckerhoff as designer, to construct the \$6.87 million permanent bridge span replacement. Using accelerated bridge techniques and Virtual Design and Construction (VDC) capabilities, the team developed an innovative design and construction scheme that allowed WSDOT to reopen the bridge ahead of schedule on September 15, 2013, just 88 days after contract award and 115 days after the initial accident.</p> <p><b>WSDOT</b></p>	
<b>10:15am – 10:45am</b>	<b>Break and Vendor Exhibits Open</b>	Lobby Area
10:45am – 11:45pm	<p><b>Demystifying the Local Agency Procurement and Selection Process for Professional Engineering Consultant Services.</b>            Local agency procurement and selection of professional engineering consultant services has often been a misunderstood process. Consultants often wonder why they fail to be selected and wonder what mysterious process is used by local agencies to make their selection. These questions may be best answered by evaluating the common fundamentals used by consultants that are successful in this process: (1) they know their client (and, their client knows them); (2) they provide a well-qualified team; (3) they develop a well-defined project approach that reflects their knowledge of the common partnering approach used by local agencies to complete key project work elements; and (4) they communicate effectively. The true mystery regarding local agency procurement of professional engineering consultant services is how often these fundamentals are overlooked by a consultant's management team during statement of qualifications, proposal, and interview preparation. Perhaps it is time to revisit them.</p> <p><b>Al King PE, HW Lochner</b></p>	Ballroom A
11:45am – 12:00pm	<p><b>Autodesk Inc. &amp; Spokane County Public Works Department Partnership Process</b>            Autodesk Partner Process and System Initiatives is a leading function in delivering design excellence and continuous improvement through simplicity, flexibility and innovation. With an overall goal of making it easier for County Partners and Autodesk to support increased workload volume, we define and implement strategic initiatives across the County organization. We facilitate this change across the county organizations and suggest new workflow process and technologies.</p> <p><b>Craig Sander's Autodesk Inc. &amp; Jim McLefresh Spokane County</b></p>	Ballroom A
<b>12:00 – 1:00 pm</b>	<b>Lunch (provided)</b>	Lunch Room

	<b>WEDNESDAY AFTERNOON</b>		
	<b>TECHNICAL BREAKOUT SESSIONS.</b>		
<b>Choose One:</b>	<b>Track A</b>	<b>Track B</b>	<b>Room</b>
1:00pm – 1:45pm	<p><b>Hot in Place Asphalt Recycling (HIPR)</b>  <b>Attendee Profile:</b> Project Managers, Engineers, Designers.            As President of the Asphalt Recycling and Reclaiming Assoc. I will cover a brief overview of the 5 disciplines recognized by the association as well as the Federal Highways.            We will turn specifically to one of those disciplines of HIPR and cover the mechanics of that particular process, as well as when and where to use this technology. Economic, environmental and Engineering aspects of this discipline will be covered as well.  <b>Patrick A Faster, Gallagher Asphalt Corp./Coral Sales</b></p>	<p><b>Civil 3D Power Tools for Civil 3D users.</b>  <b>Attendee Profile:</b> Engineers, Designers, Drafters, Surveyors, GIS Professionals.  <b>Topics:</b> This session will focus on tools for unleashing the true power of Autodesk AutoCAD® Civil 3D®. We specialize in custom software development and technical consulting for the Civil Engineering and Surveying markets (with an emphasis on Transportation and Land Development. We are also one of the few outfits remaining with extensive CAiCE® experience. We launched Civil3dPowerTools.com in order to promote add-on and companion applications designed to supplement and enhance the feature set and workflow of AutoCAD Civil 3D.  <b>J. Adam Koerner, Owner/founder Civil Power Tools LLC</b></p>	<b>Ballroom A &amp; B</b>
<b>1:45pm – 2:00pm</b>	<b>Break</b>	<b>Break</b>	
2:00pm – 2:45pm	<p><b>Hot in Place Asphalt Recycling (HIPR)</b>  <b>(Repeat of previous track)</b></p>	<p><b>Civil 3D Power Tools for Civil 3D users.</b>  <b>(Repeat of previous track)</b></p>	
2:45pm – 3:00pm	<b>Afternoon Snack Break</b>		Lobby
3:00pm – 3:45pm	<p><b>Unmanned Aerial Vehicles – New Frontiers</b>  <b>Attendee Profile:</b> Project Managers, Surveyors. Unmanned Aerial Vehicles (UAV) are now possible in relatively low cost formats due to the emergent technologies of micro-controllers as well as the ubiquity of low cost, highly accurate sensors. Just think, you could make short order of a County stock pile or site mapping for a surface model or proposed alignment.            The camera allows you to calculate a point cloud off the pixels then you create a surface or volume from that data. The imagery is amazing so you can also keep historical records of your sites with periodic flights. This is going to change the frontier more ways than one.  <b>Todd Ferris, RDO Integrated Controls, Survey &amp; Machine Control Account Manager Montana</b></p>	<p><b>SSA River &amp; Flood Analysis -</b>  <b>Attendee Profile:</b> Project Managers, Engineers, &amp; Designers.            Advanced river modeling software that supports HEC-RAS within Autodesk AutoCAD® Civil 3D®. The software makes it easy to compute water surface profiles for modeling bridges, culverts, spillways, levees, bridge scour, floodway delineation, flood plain reclamation, stream diversions, stream restorations, stream realignments, and split flows.  <b>Steve Stamatoplos, Autodesk Inc.</b></p>	<b>Ballroom A &amp; B</b>
<b>3:45 – 4:00 BREAK</b>	<b>Afternoon Snack Break</b>		Lobby
4:00pm – 4:45pm	<p><b>Unmanned Aerial Vehicles – New Frontiers (REPEAT of previous track)</b></p>	<p><b>SSA River &amp; Flood Analysis (REPEAT of previous track)</b></p>	
5:00 pm – 7:00pm	<b>Hospitality &amp; Social Gathering – Appetizers Provided (Dinner on your own)</b>		

## 25<sup>th</sup> Annual Road Design Conference – Day 3 Agenda

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#### Day 3 - Thursday-November 6th, 2014

8:00am – 9:00am	Registration and Continental Breakfast (provided)		Room
Choose One:	Track A	Track B	Room
9:00am – 10:15am	<b>AutoCAD Civil 3D 2015 New Features &amp; Tips &amp; Tricks</b> <b>Attendee Profile:</b> Project Managers, Engineers, Designers. <b>Topics:</b> This session will focus on new enhancements to the latest & greatest release of Autodesk's Civil 3D. Demonstrations of several new tools to this new release will be shown as well as a few tips & tricks that will help a user's production will be shown in this session.	<b>Civil 3D for County Surveyors</b> <b>Attendee Profile:</b> Surveyors, GIS Professionals. <b>Topics:</b> Jim will be teaching the basic workflow fundamentals for surveying in Civil 3D. Jim will go over the following topics; Introduction to the Survey Toolspace, Survey Figures, Points Overview, Point Settings, Creating Points, Description Key Sets, Importing Survey Data, Point Groups, Editing Points, Surface Process, Surface Properties, Contour Data, Surface Editing, Breaklines and Boundaries, <b>Jim McLefresh, Spokane County Public Works Dept.</b>	Ballroom A & B
<b>10:15am – 10:45am</b>	<b>Break</b>	<b>Break</b>	
10:45am – 12:00pm	<b>AutoCAD Civil 3D 2015 New Features &amp; Tips &amp; Tricks</b> <b>(REPEAT of previous track)</b>	<b>Civil 3D for County Surveyors</b> <b>(REPEAT of previous track)</b>	
12:00pm – 1:00pm	<b>Lunch (provided)</b>		Ballroom A & B
1:00 – 2:00 Adjourn	<b>RDC Wrap Up:</b> Results of the 9th annual Project Design Contest & Best Tip or Trick Winner. Door Prizes for submitted conference evaluations (must be present to win). Open forum to discuss this year's conference as well as disclose next year's conference date & location.		