



## Midwest Infrastructure & GIS Technical Conference

**Monday, June 1<sup>st</sup>**

**1:00 pm – 8:00 pm Exhibits Open in SALON A**

**1:00 pm – 3:00 pm**

### **SALON B – GPS for GIS**

With new technology and significantly reduced costs, high-accuracy GPS for GIS is becoming the new standard. We will be discussing the technology and capabilities of the latest tools and will also have a hands-on field-to-finish demonstration (weather-permitting)

*Hosted by Leica, Inc.*

### **SALON C – GPS / Construction Staking and Understanding AMG (Automated Machine Guidance) Applications – Part 1**

Part 1 - Attendees will understand how GPS positioning works, and is used within the Construction industry. Learn how horizontal and vertical ground positions are calculated using a satellite based system to determine local ground based coordinate values. Attendees will learn about Base/ Rover and Network applications including set up, how to configure receivers, and understand how to troubleshoot and establish positional accuracy. Finally, attendees will learn about work flow including data use, upload and download of data.

**Part 2 Continued at 3:00 pm to 5:00 pm**

*Hosted by Positioning Solutions Co. – Topcon*

### **SALON D – Translation of AutoCAD Data to MicroStation and Back Again**

This session will demonstrate workflows, tips, and techniques that can be used to transfer and share your CAD data between AutoCAD and MicroStation. In addition to the typical CAD drawing file translation, converting standards and other associated resource files will also be discussed, as well as translating data between Civil 3D and InRoads/GEOPAK.

*Hosted by The Envision Group*

### **SALON E – HDS and Civil 3D to Create Traditional Survey Deliverables**

In this session we will review the process and best practices of using High Definition Survey data from 3D scanned point data to create traditional point and line work deliverables with Civil 3D.

*Hosted by Avatech, INC.*

### **SALON F - Migrating to Civil 3D Workshop – Part 1**

Civil 3D's model-based design systems allow for greater flexibility, more accuracy and significant time savings than traditional Civil/Survey applications. This interactive session will review the key points that organizations should take into account when considering a switch to AutoCAD Civil 3D 2010.

*Hosted by IMAGINiT Technologies*

### **SALON G - Civil 3D Test Drive**

Take a hands on tour of Civil 3D. Computer Workshop. Class size limited to 20 Students

*Hosted by MasterGraphics, INC.*

**3:00 pm – 5:00 pm**

**SALON B – Web-based Mapping Using Mapguide Open Source**

Whether you are new to web development or a seasoned veteran this workshop will show you how to create dynamic web based mapping applications using Mapguide Open Source. We will walk through the installation of Mapguide Open Source and its authoring tool Mapguide Maestro and Mapguide Studio. We will explore the use of FDO (feature data objects) to connect to geospatial data formats like .SHP, Oracle, MySQL and ArcSDE making it possible to have CAD and GIS delivered to the web. Participants are asked to bring a laptop with full admin rights and a DVD drive running Windows XP.

*Hosted by Autodesk, Inc.*

**SALON C – GPS / Construction Staking and Understanding AMG (Automated Machine Guidance) Applications – Part 2**

This session will cover the history of AMG, present technologies and future applications including 2D Laser augmentation, 3D Machine Control, Millimeter GPS, Paving Applications and 3D-MC2. Case studies of how these technologies are changing the face of the construction industry, and how you can utilize and benefit from these technologies now and in the future.

**Continues from Part 1 at 1:00 pm to 3:00 pm**

*Hosted by Positioning Solutions Co. - Topcon*

**SALON D – LiDAR – End-users achieving value after delivery**

The big LiDAR project is complete. Data has been acquired, processed and delivered. Now that the dust has settled, how do the data consumers (stakeholders/end-users) that commissioned the LiDAR project extract maximum value from that investment? This presentation focuses on solutions and workflows for the data consumer to achieve value from the delivered LiDAR data with a focus on transportation applications

*Hosted by Virtual Geomatics*

### **SALON E – HDS and BIM**

Learn processes and methods used in a Building Information Modeling (BIM) process that builds a civil model from 3D scanned data. In this session we will review the challenges as well as the options available to that will allow users to deliver BIM data to customers using a variety of applications and processes

*Hosted by Avatech, INC.*

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*Hosted by IMAGINiT Technologies*

### **SALON G – Pipe Networks**

Hands on Workshop on Pipe Networks for Non-Gravity Pipes.

*Hosted by MasterGraphics, INC.*

**5:00 pm – 10:00 pm**

**“Let’s Get Acquainted” Dinner**

*Sponsored by WGUG*

# Tuesday, June 2nd

**8:15 am – 8:45 am**

**Opening Welcome Presentation** in Lakeside Terrace

**10:00 am – 6:00 pm**      **Exhibits Open in SALON A**

**8:45 am – 10:15 am**

## **SALON B – WisDOT Geometric Design Workflow Using 2010**

The Wisconsin DOT workflow for Geometric Design using Civil 3D and even tips and tricks to using the 'new stuff' in 2010.

*Hosted by Wisconsin Department of Transportation*

## **SALON C – WisDOT Plans/Plats Workflow**

Plans/Plats Workflows: an overview of the Wisconsin DOT for Plans Production and Plat Development.

*Hosted by Wisconsin Department of Transportation*

## **SALON D – WisDOT Standards for Civil 3D Workflow**

Wisconsin DOT Standards for Civil 3D: what they are and how to get them. This demonstration will discuss templates, layers, layouts, blocks, styles (and styles and styles), subassemblies, reports, and project structure (and styles).

*Hosted by Wisconsin Department of Transportation*

## **SALON E - Detention/Retention Ponds & Grading**

Learn the art of detention and retention pond grading in AutoCAD Civil 3D 2010 and experience the workflow with Hydraflow Hydrographs. Design and model ponds and outlet structures and route ponds to analyze basin outflow. Explore the reporting options to produce an agency ready report in minutes.

*Hosted by Autodesk, INC.*

### **SALON F – Map 2010 – New Features & Functionality**

Come to this session to see the new enhancements in Autodesk's Map 2010 release. New features around data editing , management and publishing, data collection and access, the new user interface (to name just a few!) will be explored. Get 'the jump' on your colleagues during this session and be even more productive!

*Hosted by Autodesk, INC.*

### **SALON G - Design Collaboration with Navisworks 2010**

This session will overview how different disciplines involved in the same project can seamlessly coordinate their design data to avoid costly and disruptive design changes during construction.

*Hosted by IMAGINiT Technologies*

**10:30 am – 12:00 pm**

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### **SALON D – WisDOT Survey Workflow**

Survey workflow: an overview of the Wisconsin DOT's plan for Survey data preparation and verification.

*Hosted by Wisconsin Department of Transportation*

## **SALON E - Intersection Design**

This session will cover recommended workflows for designing intersections in AutoCAD Civil 3D 2010. Included will be how to properly create intersection designs by learning how to properly prepare the intersection and set up the required data. The session will also cover settings related to intersections, editing intersections and options for labeling intersections.

*Hosted by Autodesk, INC.*

## **SALON F – CAD & GIS Interoperability Using FDO (Feature Data Objects)**

Learn the fundamentals of being able to read and edit both CAD and GIS formats using FDO technology. Attendees will see how using FDO we can connect and edit GIS data in formats like .SHP and ArcSDE as well as Oracle and SQL Server. Learn how simple an enterprise solution can be by using tools you already have and leveraging free spatial databases like Oracle XE and SQL Server Express. We will view how you can use free technology to distribute you CAD and GIS data to the field using a FREE Autodesk format called DWF. Also we will see how using traditional GIS datasets we can geo-reference you legacy CAD data so it can be used with other Geospatial applications.

*Hosted by Autodesk, INC.*

## **SALON G – Presenting Your 3D Design Using the Power of Visualization**

Fly-by and drive through animations, how to prepare your data, as well as the fundamentals of how animations are created.

*Hosted by MasterGraphics, Inc.*

***1:00 pm – 2:30 pm***

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Wisconsin DOT Standards for Civil 3D: what they are and how to get them. This demonstration will discuss templates, layers, layouts, blocks, styles (and styles and styles), subassemblies, reports, and project structure (and styles).

*Hosted by Wisconsin Department of Transportation*

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Survey workflow: an overview of the Wisconsin DOT's plan for Survey data preparation and verification.

*Hosted by Wisconsin Department of Transportation*

### **SALON E – Civil 3D CUI, Styles and Setup**

Join me as we discuss AutoCAD Civil 3D 2010 setup and customization. We will begin by reviewing the new Civil CUI and Ribbon interface. This discussion will include the CUI structure as well as how to create your own custom entries. We will then look at styles creation and styles management. Next, we will review AutoCAD Civil 3D 2010 installation and configuration. We will conclude by showing how use DGN files with Civil 3D.

*Hosted by Autodesk, INC.*

### **SALON F – Publishing to PDF, DWF and MapBooks**

Looking for ways of cost effective data distribution.? This session will explore some of the ways how to distribute geospatial data, maps, and designs. Learn how to create compelling Map Books, save data to easily distributable, lightweight DWF's and learn the latest advancements in PDF publishing. The benefits and functionality of Autodesk Design Review will also be covered.

*Hosted by Autodesk, INC.*

### **SALON G - Introduction to Facilities Management**

An intensive look at Facilities Management (FM) and consideration for data and software.

*Hosted by Avatech, Inc.*

**2:45 pm – 4:15 pm**

**SALON B – WisDOT Plans/Plats Workflow**

Plans/Plats Workflows: an overview of the Wisconsin DOT for Plans Production and Plat Development.

*Hosted by Wisconsin Department of Transportation*

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**SALON E - Alignments, Profiles and Advanced Corridor Modeling**

This session will cover new changes to Alignments and Profiles in AutoCAD Civil 3D 2010. We will also walk through a rehabilitation project that includes updating an existing alignment to bring it up to current standards, and generating design profiles for corridor modeling. Understanding subassemblies and assembly properties will be stressed as we take an advanced look at the corridor modeling capabilities in AutoCAD Civil 3D 2010. This session will also include using best practices for the use of targets, assembly overrides, corridor editing and surface creation.

*Hosted by Autodesk, INC.*

### **SALON F - CAD & GIS Interoperability Using FDO (Feature Data Objects)**

Learn the fundamentals of being able to read and edit both CAD and GIS formats using FDO technology. Attendees will see how using FDO we can connect and edit GIS data in formats like .SHP and ArcSDE as well as Oracle and SQL Server. Learn how simple an enterprise solution can be by using tools you already have and leveraging free spatial databases like Oracle XE and SQL Server Express. We will view how you can use free technology to distribute you CAD and GIS data to the field using a FREE Autodesk format called DWF. Also we will see how using traditional GIS datasets we can geo-reference you legacy CAD data so it can be used with other Geospatial applications.

*Hosted by Autodesk, INC.*

### **SALON G - Web Mapping with MapGuide Enterprise and MapGuide Studio**

This session will focus on publishing maps on the web through the use of the MapGuide Enterprise Server and MapGuide Studio. A complete web site will be built from start to finish using a variety of geospatial data stores.

*Hosted by IMAGINiT Technologies*

## **Wednesday, June 3<sup>rd</sup>**

**10:00 am – 6:00 pm Exhibits Open in SALON A**

**8:45 am – 10:15 am**

### **SALON B – WisDOT Plans/Plats Workflow**

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*Hosted by Wisconsin Department of Transportation*

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*Hosted by Wisconsin Department of Transportation*

### **SALON E - Advanced Survey Techniques**

Join us as we review the exciting new survey functionality available in Civil 3D 2010. This discussion will begin with the new import event object as well as the expanded Field to Finish capabilities. In addition, you will see how to enhance your survey point data to include additional attribute data. Along the way we will demonstrate how to leverage GIS data in your survey workflow. We will conclude by showing how AutoCAD Civil 3D survey objects seamlessly integrate with your design process.

*Hosted by Autodesk, INC.*

### **SALON F – Map 2010 Workflows**

We will explore the new AutoCAD Map 3D Workflow Designer. Learn how to automate some of the common tasks in Map.

*Hosted by Autodesk, INC.*

### **SALON G – Survey 2010**

In-depth look and the latest features of Civil 3D's survey tools and techniques.

*Hosted by MasterGraphics, Inc*

**10:30 am – 12:00 pm**

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**SALON E - Optimizing Civil 3D designs using LIDAR data combined with GIS topology**

The focus of this session is to demonstrate engineering workflows that take advantage of accurate aerial LIDAR scans combined with GIS topology, such as; soil data, vegetation maps, roadway right of ways, floodways, utilities, and easements. Engineering workflows will include; Design checks on existing roadways, including automating overlay or milling selections. Other engineering workflows include forecasting and eliminating landslides, washouts and sink holes caused by slope, vegetation and soil.

*Hosted by Autodesk, INC.*

### **SALON F – Topobase and AUD - Design & Asset Management for Utilities**

This presentation will go over the 2 top tier utility tools from Autodesk. AUD (Autodesk Utility Design) is the design tool of choice combining the precision CAD tools with material costing and engineering calculation capabilities. Topobase is the asset management tool which can store a utilities as-built data and allow sharing of data through an enterprise, run analysis and reports and integrate with work order applications. Attendees will leave with a greater understanding of the value of implementing these tools in a utility.

*Hosted by Autodesk, INC.*

### **SALON G – Civil 3D Hydraflow Extensions Overview**

This session is an introduction to the Hydraflow extensions which are part of AutoCAD Civil 3D. The instruction in this class is for those who are already knowledgeable in storm water management, and want to see how the extensions work. We will demonstrate the basic functionality of each extension as well as show the data transfer process with Civil 3D

*Hosted by Avatech, Inc.*

***1:00 pm – 2:30 pm***

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### **SALON G - Civil 3D Hydraflow Workflows**

In this session we will address the process of using the Hydraflow tools to perform storm design and analysis with Civil 3D pipe networks. We will address the details of exporting and importing design data as well as best practices for streamlining the design process. You'll walk away understanding the best practices for using Civil 3D analysis tools with storm design and pipe networks.

*Hosted by Avatech, Inc.*

**2:45 pm – 4:15 pm**

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*Hosted by Autodesk, INC.*

**SALON F - Municipal Road Design with Civil 3D 2010**

This session will outline strategies to harness the power of AutoCAD Civil 3D on typical roadway projects, such as widening and reconstruction projects.

*Hosted by IMAGINiT Technologies*

## **SALON G – Plan Set Development**

The project isn't complete until the plans are put together. In this session you will learn how to streamline the plan and profile sheet creation. Also learn how to cut section sheets. Discover how the Sheet Set Manager from AutoCAD can bring all of these sheet elements together with title and detail sheets to publish a finished plan set.

*Hosted by MasterGraphics, Inc.*

**5:00 pm Exhibits Close in SALON A**

**Travel Safely – See You Next Year!**