



2016 IDDEA Fall Conference Announcement

Scheman Center, Iowa State University, Ames, Iowa

Workshops October 5 & October 7
Conference October 6

With this newsletter, I am pleased to announce the agenda for the 2016 IDDEA Conference. This year's conference will be held on October 5th through the 7th and will provide a great learning environment for every attendee. The IDDEA conference will showcase our users' practices, MicroStation, GEOPAK, and show everyone the future of design and analysis.

The IDDEA Board has worked hard to put together a conference full of sessions and workshops that highlight both the current and future MicroStation and Civil software that Bentley offers. We are bringing in presentations from the industry, Bentley professionals, as well as presentations from the Iowa Department of Transportation. We have sessions for beginners through advanced users to fulfill everyone's needs. Many of these sessions and workshops come to you directly from the 2016 Bentley LEARNING Conference held this year.

Our keynote, **"Using Drones for Engineering Projects"** presented by Steve Zeets, from Terraplane LLC., will share his background and experiences with the commercial use of drones in engineering applications. This will include the FAA regulations on how to legally operate drones commercially. He will go over a variety of projects he has completed using drones

Once again this year the board is hosting a social event and prize giveaway on Thursday, Oct 6th, following the conference. The intent is to provide an opportunity to meet with peers as well as the presenters and sponsors. Hors d'oeuvres will be provided and a cash bar will be available for refreshments. All conference participants are invited to attend the social event following the closing remarks.

To register for the conference you can make use of our on-line registration service. Sign up right away, as workshop attendance is based on a first come, first serve basis. The site is located at our web address: www.iddea.org. At this site you can download the conference newsletter, register for the conference, find information about the IDDEA Group, and download electronic copies of presentations that we have received from presenters. Please register on our site if you have not already.

As a bonus, any presentations that we receive before the conference will be available for download the day of the conference. Simply bring a USB drive to the registration desk, and IDDEA Board members will copy any presentations that we have onto your drive. If you forget your USB drive, these presentations will be posted on our website for later downloading.

As always, we put this conference together for you, our membership. Let a board member know if you have any suggestions for future sessions or workshops that you would like to see. **We are always interested in additional board members as well.** Please let us know any ideas or if you are interested in joining our team.

We look forward to seeing you at the 2016 IDDEA Conference on October 5th through the 7th at the Scheman Center on the Iowa State University Campus in Ames.

Hope to see you there!

William Behrendt
Chair, The IDDEA Group

REGISTRATION INFORMATION

To register for the Fall IDDEA Conference visit: www.iddea.org

Note: We hope you will become a member before registering for the conference, but, it is not required.

A variety of payment options are available during the registration process. A confirmation email will be sent when payment is received.

Payment must be **received no later than Friday, September 30, 2016**. The deadline to cancel and receive a refund is also **Friday, September 30, 2016**.

Make checks payable to: **The IDDEA Group**

Send to: Iowa DOT
Office of Bridges & Structures
c/o Annette Jeffers
800 Lincoln Way
Ames, IA 50010

A copy of the registration form will serve as an invoice for most purposes.

Registration Costs:

½ day Workshop - \$75

Full day Workshop - \$150

Conference day - \$70

Students – (Conference day only) - \$30

[Register On-line Here](#)

CONFERENCE LOCATION & HOTEL ACCOMMODATIONS

IOWA STATE UNIVERSITY

[Google: Directions to Iowa State University](#)

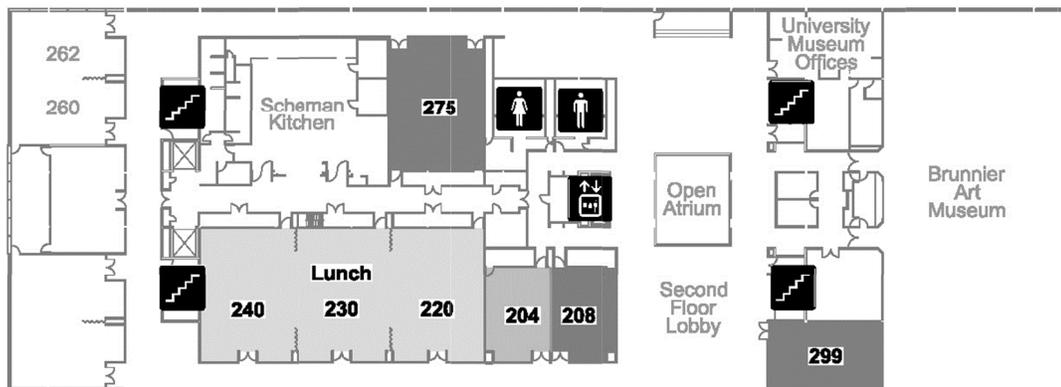
[Iowa State University - Online Campus Map](#)

[Hotel Accommodations – Ames Convention and Visitors Bureau](#)

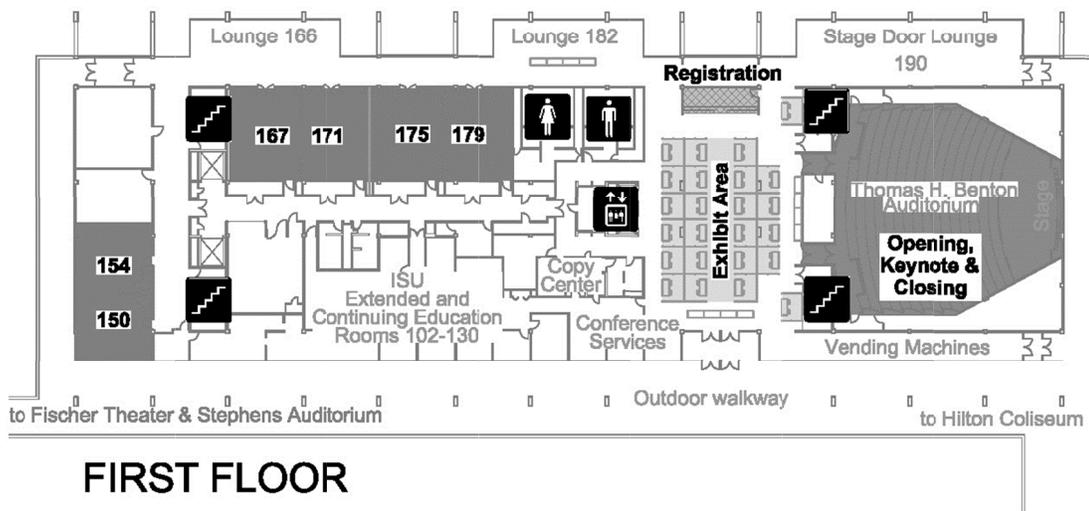
[Dining - Dublin Bay, Irish Pub & Grill](#)



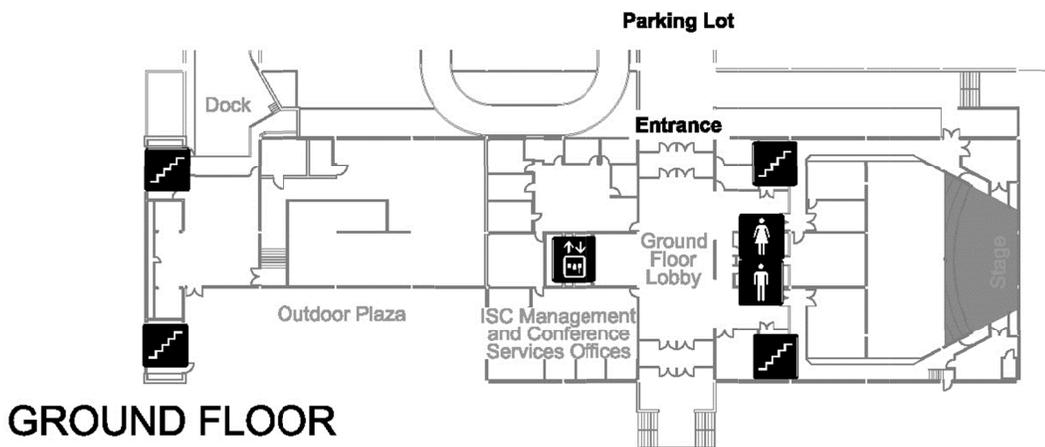
**IOWA STATE CENTER - IOWA STATE UNIVERSITY
Scheman Building**



SECOND FLOOR



FIRST FLOOR



GROUND FLOOR

KEYNOTE SPEAKER

Steve Zeets, Terraplane, LLC : 319-521-0054 steve@terraplanellc.com

Steve will share his background and experiences with the commercial use of drones in engineering applications. This will include the FAA regulations on how to legally operate drones commercially. He will go over a variety of projects he has completed using drones.

Steve started his career after college as a rodman on a 3-man survey crew and is now a licensed land surveyor in Iowa. His 20+ years of experience in Surveying, GIS, IT, and Photogrammetry led him to read about drones online in 2011. He immediately started to acquire knowledge, parts, and soldering skills to build his own multi-rotor and fixed wing systems. He started off repairing more than flying, but his skills advanced along with the technology. He co-founded a company in 2014 and has an FAA Remote Pilot Certificate with a Small Unmanned Aircraft System Rating so he can fly drones commercially. He has flown over 1,200 mapping missions, some in busy Class C Airspace, and is currently working on finding value in the data that drones produce.

WORKSHOP PRESENTERS

Jeanne Aarhus, Aarhus Associates (402) 408-9696 jeanne@aarhusassociates.com

Jeanne has been working with various CAD systems and applications since the early 1980s. She has gained experience in many CAD related fields that have included production drawings, coordination, end-user support, programming, and training. Her specialty is in providing users with the necessary tools to increase productivity and get the job done as efficiently as possible using these constantly changing tools. She is certified in all levels of MicroStation and AutoCAD and has over 20 years of experience using MicroStation and AutoCAD in the Mapping and AEC environments. She has conducted seminars and workshops on CAD productivity for managers and users in both corporate and college settings. Jeanne has provided training workshops and has been actively involved in international, national, and local CAD user groups, and is known for her "real-world" approach to learning.

Dan Calistrat, DTM Solutions (512) 331-7211 dan@dtm-solutions.com

Dan Calistrat is a licensed professional engineer in 6 states and has been actively practicing for the past 23 years. After engineering for the land development community, Dan joined GEOPAK where he was instrumental in the development, certification, and training of Bentley civil products. After nearly a decade at GEOPAK, Dan left to implement Bentley software on some of the largest construction projects in the United States. Dan founded DTM Solutions where he consults with all size firms to make their transition and integration to civil engineering software as seamless as possible. His vision for the firm is based on providing billable solutions to clients in need of civil engineering software training. Dan holds a B.S. degree in Civil Engineering from Texas A&M University and is an active member of the American Society of Civil Engineers.

Robert Garrett, EnvisionCAD. (865) 254-1140 robert.garrett@envisioncad.com

Robert Garrett works as Senior Software Consultant for EnvisionCAD where he provides clients with CADD management and training needs. A graduate of Tennessee Technological University, Robert has 30 years of experience in engineering and is licensed in the State of Tennessee. Robert's career includes 12 years in a DOT, 6 years in private practice and 10 years with Bentley.

Douglas Morton, Bentley Systems, Inc. douglas.morton@bentley.com

Douglas has worked with ProStructures, both ProSteel and ProConcrete, for over ten years. As an applications engineer he has had the opportunity to touch base with many of the fields that relate to this software by offering presentations, support, quality assurance, developer assistance, and user training. Douglas graduated from both the 'Commercial and Residential' and the 'Mechanical Drafting' post-secondary professional studies programs, earning a DEP in each, as well as the Frank Thompson Award for Excellence.

Patrice Rhodes, P. H. Rhodes, Inc. (608) 524-0831 Patrice@PHRhodesInc.com

Patrice Rhodes of P.H. Rhodes, Inc. is an independent consultant specializing in CAD management consulting, on-site customized software training, and individualized ongoing support services. Patrice has provided CAD management services and extensive MicroStation training for clients in a variety of disciplines including civil, municipal, transportation, architectural, mechanical, electrical, environmental remediation, and cartography, with a strong focus on incorporating client data and procedures into her training programs. Patrice has also designed custom training programs in areas related to document management, engineering safety procedures, and insurance industry software. She also conducts seminars on training and course development for her clients. Patrice has been creating and implementing successful training, support and CAD management programs for over two decades, and has enjoyed many successful years since founding P.H. Rhodes, Inc. in 1994.

Steve Rick, Bentley Systems, Inc. steve.rick@bentley.com

With over 30 years' experience in engineering technology, Steve provides technical support for all Bentley platform software, project management tools and server products. He is proficient at generating custom tools and workspaces. As a Bentley certified instructor, develops and delivers client-specific Bentley training. Has performed a wide variety of MicroStation-related training as a certified instructor since 1994, to such clients as Minnesota DOT, South Dakota DOT, North Dakota DOT, Iowa DOT, Nebraska Department of Roads, USACE, US Army as well as many others. Standard MicroStation-related training he has performed includes Bentley's Essential MicroStation, Moving to MicroStation, Productive MicroStation, Managing MicroStation, Administering MicroStation, Everything 3D, MicroStation Animation and Rendering, Bentley Map, Map Administrator and some Projectwise Knowledge as well. He has also developed custom courseware for some of these agencies.

Bob Rolle, Bentley Systems, Inc. (816) 679-1795 bob.rolle@bentley.com

Bob is a registered professional engineer in the state of Kansas. Bob worked for several years for the Kansas Department of Transportation as a project engineer. In 1992 Bob began working for a consultant firm as a Project Design Engineer and later was assigned the Design Support Systems Engineer position focusing on providing Civil and Architectural resources, support, and training for the corporation. He is now a member of the Bentley team as a Civil Application Engineer for the Transportation & Local Infrastructure group.

Lisa Whitson, Bentley Systems, Inc.

lisa.whitson@bentley.com

Lisa Whitson started working with InRoads in 1990 in development at Intergraph. She has done customer support, product certification, professional services and is now an Application Engineer in the Transportation & Local Infrastructure group. She has a degree in Geology and a Masters in Surveying engineering, experience in programing, custom XSL development, and wide array of product knowledge and integration.

Steve Willoughby, Bentley Systems, Inc.

steve.willoughby@bentley.com

Steve started his career working for Illinois DOT. He began working for GEOPAK Corp. in 1995. He has worked in the Bridge Information Modeling Group since its inception providing consulting, training, and support services. He has nearly 30 years of experience in using, implementing, training, and supporting civil engineering design software. He has worked with over two dozen DOT's and countless engineering firms in his time with Bentley Systems.

Rod Wing, EnvisionCAD (608) 836-3903

Rod@EnvisionCAD.com

Rod Wing joined EnvisionCAD in 2007 and has over 25 years of experience supporting and customizing MicroStation and related applications. Before joining EnvisionCAD, Rod had experiences with from the Wisconsin Department of Transportation and the Central Intelligence Agency in Cartography, Design, and Publishing. Rod has extensive experience in CADD, GIS, cartography, plotting, scanning, raster editing/manipulation, publishing, and file/data translations. He has been active in numerous user groups and has given many technical presentations on different topics at various professional conferences. Rod received a Bachelor of Science degree from the University of Wisconsin in Cartography and a Master of Science in Geographic and Cartographic Sciences from George Mason University.

CONFERENCE PRESENTERS

- Jeanne Aarhus, Aarhus Associates jeanne@aarhusassociates.com
- Dan Calistrat, DTM Solutions dan@dtm-solutions.com
- Jason Dove, Crawford, Murphy & Tilly, Inc. jdove@cmtengr.com
- Aaron Granquist, HR Green, Inc. agranquist@hrgreen.com
- Brad Geater, McClure Engineering Company..... bgeater@mecresults.com
- Arielle Gebhart, HR Green, Inc. agebhart@hrgreen.com
- Josh Greenfield, Iowa DOT..... joshua.greenfield@dot.iowa.gov
- Thomas Hamski, Iowa DOT..... thomas.hamski@dot.iowa.gov
- Chad Hightshoe, Iowa DOT..... chad.hightshoe@dot.iowa.gov
- Douglas Morton, Bentley Systems, Inc..... douglas.morton@bentley.com
- Ariel Rauk, Snyder & Associates arauk@snyder-associates.com
- Patrice Rhodes, P. H. Rhodes, Inc. patrice@PHRhodesInc.com
- Steve Rick, Bentley Systems, Inc. steve.rick@bentley.com
- Bob Rolle, Bentley Systems, Inc. bob.rolle@bentley.com
- Ben Sullivan, FOTH Infrastructure & Environment, LLC.. ben.sullivan@foth.com
- Jeff Vaske, Midwest CAD Solutions..... jeffv@mcscad.com
- Bill Wegner, HDR bill.wegner@HDRInc.com
- Lisa Whitson, Bentley Systems, Inc. lisa.whitson@bentley.com
- Steve Willoughby, Bentley Systems, Inc..... steve.willoughby@bentley.com
- Rod Wing, EnvisionCAD rod@envisionCAD.com
- Steve Zeets, Terraplane, LLC..... steve@terraplanellc.com

Wednesday Workshops			
7:30 - 8:00	Registration and Continental Breakfast		
Room No.	150-154	167-171	175-179
	WS1	WS2	WS3
8:00 - 12:00	Using Open Bridge Modeler Steve Willoughby	MicroStation V8i SS3 Intermediate Patrice Rhodes	Introduction to OpenRoads Subsurface Utility Design and Analysis Robert Garrett
12:00 - 1:00	Lunch (Stage Door Lounge 190)		
	WS4	WS5	WS6
1:00 - 5:00	ProConcrete Douglas Morton	Drainage Dan Calistrat	QuickStart - Evaluating and Creating Subsurface Utilities Lisa Whitson

WS1 –Using Open Bridge Modeler

Presenter: Steve Willoughby, Bentley Systems, Inc.

This hands-on workshop will introduce you to the world of OpenBridge Modeler. You will learn how to create a model for a prestressed girder, steel girder and a segmental bridge with the modeler. Following the creation of the model, you will transition this model to the design and analytics solutions (LEAP Bridge Concrete, LEAP Bridge Steel and RM Bridge) individually. We will review some of the design, analytics and reporting features in each solution with the major focus on the model.

Prerequisite: For Intermediate MicroStation users.

WS2 – MicroStation V8i SS3 Intermediate

Presenter: Patrice Rhodes, P.H. Rhodes, Inc.

This half-day workshop is designed for newer users of MicroStation to see some additional features in the software, including topics like element selection, locks, patterning, references and dimensioning. By attending this workshop, you will get a little more in-depth look at the capabilities of MicroStation, while having the opportunity to follow along and try various tools and settings. This workshop will help basic level users get a clearer picture of what they can do in MicroStation.

Prerequisite: Must have a basic exposure to MicroStation.

WS3 – Introduction to OpenRoads Subsurface Utility Design and Analysis

Presenter: Robert Garrett, EnvisionCAD.

This course will introduce the student to the basic principles for creating 3D models of existing underground utilities, layout of drainage networks and basic drainage design principles, using the OpenRoads Subsurface Utility Design and Analysis software.

Prerequisite: Student should be comfortable in the OpenRoads environment and have a basic understanding of 3D models, layout of drainage systems and drainage design principles.

WS4 –ProConcrete

Presenter: Douglas Morton, Bentley Systems, Inc.

This course will focus on how to model 3D parametric objects which can then be reinforced using different reinforcing methods. It will then cover the basics of drawing generation through the use of dynamic sections and finally look at how bar bending schedules and concrete quantity and material reports can be developed directly from your 3D model.

WS5 – Drainage

Presenter: Dan Calistrat, DTM Solutions

This Drainage workshop uses standard DOT files and processes to design and analyze your Drainage project. After design, we'll show you how to resolve Drainage errors & warning messages and include Tips and Tricks for creating and analyzing 3D Drainage models for inclusion in the 3D Roadway model.

Prerequisite: For beginner/intermediate MicroStation users.

WS6 – QuickStart - Evaluating and Creating Subsurface Utilities

Presenter: Lisa Whitson, Bentley Systems, Inc.

In this hands-on course, you will learn to evaluate drainage structures multiple ways including Element Information and Properties tools, analytic views like labels and color-coding, FlexTables, and queries to filter specific criteria. You will also learn to detect hard and soft utility conflicts and finally you will place inlets and pipes.

7:15-8:00	Conference Registration and Continental Breakfast						
8:00-9:00	Opening Remarks (Auditorium) Keynote: Steve Zeets						
9:00-9:10	BREAK (Vendor Area)						
Room No.	175-179	167-171	150-154	204	208	275	299
	1	2	3	4	5	6	7
9:10-10:00	SS4 Update <i>Bob Rolle</i>	Transitioning from GEOPAK SS2 to SS4 <i>Dan Calistrat</i>	Civil Accudraw <i>Lisa Whitson</i>	Scanning Survey Brad Geater Aaron West	Bentley Map Overview <i>Rod Wing</i>	MicroStation Connect <i>Steve Rick</i>	Developing SUDAS plansets using IA DOT standards <i>Arielle Gebhart</i>
10:00-10:10	BREAK (Vendor Area)						
	8	9	10	11	12	13	14
10:10-11:00	Concept Station <i>Bob Rolle</i>	IaDOT SS4 Implementation <i>Thomas Hamski</i>	Buy a Drone or Hire a Drone <i>Steve Zeets</i>	Processing Survey SS2 GEOPAK <i>Jeff Vaske</i>	Plan and Profile Sheet Generator <i>Jason Dove</i>	Annotation Scale Implementation <i>Steve Rick</i>	Surviving the Transition to Connect <i>Jeanne Aarhus</i>
11:00-11:10	BREAK (Vendor Area)						
	15	16	17	18	19	20	21
11:10-12:00	Ditch Models <i>Bob Rolle</i>	Roundtable Discussion on using ProjectWise <i>Josh Greenfield Chad Hightshoe</i>	Geopak Drainage <i>Dan Calistrat</i>	Processing Survey SS4 <i>Lisa Whitson</i>	Design File Cleanup <i>Rod Wing</i>	All new Top Ten Supports Questions <i>Patrice Rhodes</i>	Using Commercial sUAS for Conceptual Design 3D Modeling <i>Ben Sullivan</i>
12:00-1:00	Lunch						
	22	23	24	25	26	27	28
1:00-1:50	Corridor Modeler/Roadway Designer Sioux City Iowa <i>Bill Wegner</i>	Transitioning from GEOPAK Drainage to SUDA <i>Aaron Granquist</i>	Creating Composite Models <i>Lisa Whitson</i>	Open Bridge Modeler: What is it and How Can I Use it Today? <i>Steve Willoughby</i>	Sheets Happen <i>Jeanne Aarhus</i>	Introduction to Vertical Geometry <i>Jeff Vaske</i>	Open Roads VBA Macros Feature <i>Rod Wing</i>
1:50-2:00	BREAK (Vendor Area)						
	29	30	31	32	33	34	35
2:00-2:50	Civil Cells <i>Bob Rolle</i>	Visualization <i>Ariel Rauk</i>	Corridor Modeler/Roadway Designer <i>Dan Calistrat</i>	BrIM Analytics Product Update <i>Steve Willoughby</i>	Useful Microstation Configuration Variables <i>Patrice Rhodes</i>	Workspace Migration <i>Steve Rick</i>	LiDAR and Point Cloud Data <i>Jeff Vaske</i>
3:00-5:00	Closing Remarks & Membership Business (Auditorium) Door Prizes and Social (Vendor Area)						
*** Vendors will be exhibiting in the Lobby from 7:30 am to 5:00 pm ***							
Session Emphasis	Civil Products	GIS/Survey	Bridge	MicroStation	General		

8:00 – 9:00 AM**Keynote – Steve Zeets, Terraplane, LLC : 319-521-0054**steve@terraplanellc.com

Steve will share his background and experiences with the commercial use of drones in engineering applications. This will include the FAA regulations on how to legally operate drones commercially. He will go over a variety of projects he has completed using drones.

9:10 – 10:00 AM**1 – SS4 Update**

Presenter: Bob Rolle, Bentley Systems, Inc.

Join us for a Select Series 4 product review and a preview of the future developments.

2 - Transitioning from GEOPAK SS2 to SS4.

Presenter: Dan Calistrat, DTM Solutions

Let us show you how to easily and quickly convert your workflows and processes from GEOPAK SS-2 into SS-3&4. We'll map the old menu commands & dialogs into the new Tasks & Heads-Up Display system, making your conversion both memorable and logical.

3 – Civil Accudraw

Presenter: Lisa Whitson, Bentley Systems, Inc.

When most people think of Civil AccuDraw, they think of it as a tool for precision placement, and that is true. It can be used for that purpose in many different ways. But in addition to that, it can also be used to communicate design intent, which is also incredibly powerful. This session will use real-world cases to look at all facets of the Civil AccuDraw tool and how you can use its power to build a better design.

4 – Scanning Survey

Presenter: Brad Geater and Aaron West, McClure Engineering Company

The Scanner Workflow presentation will discuss McClure Engineering Company's use of the Leica P40 and C10 scanner in a typical topographic survey workflow from setting and acquiring control to final data delivery.

5 – Bentley Map Overview

Presenter: Rod Wing, Envision CAD

This session is designed for GEOPAK, InRoads, and MXRoads users who want to incorporate GIS data in their civil workflows. This session covers use of Map Manager for creating and managing map layers and themed output. Also covered are ArcView Shapefile interoperability capabilities as well as topology tools.

6 - MicroStation Connect

Presenter: Steve Rick, Bentley Systems, Inc.

A review of the main additions to the MicroStation CONNECT Edition. We will discuss CONNECTED Users and Projects, the new User Interface, new Annotation additions, including the Documentation Center, exciting new Display Rules, Item Types, Reporting, Tables, Sheet Indexing, understand the value of Reality Models, review Constraints and Functional Modeling and wrap it up with changes in 3D Visualization. This course is new. It was not taught at the 2015 LEARNING Conferences.

7 - Developing SUDAS plansets using IaDOT Standards

Presenter: Arielle Gebhart, HR Green, Inc.

This presentation will give an overview of ways Iowa Microstation users can utilize Iowa DOT standards and what modifications can be made to these standards to effectively serve other clients. There will be time at the end of the presentation to ask questions and discuss ways other users utilize these standards

10:10 – 11:00 AM**8 – Concept Station**

Presenter: Bob Rolle, Bentley Systems, Inc.

Learn about Bentley's new OpenRoads ConceptStation solution for rapidly creating, analyzing, and optimizing multiple conceptual corridor design alternatives to gain the maximum insights with the minimum of effort in a real-time high-end game-like visualization environment. These conceptual design alternatives can help identify high-cost items allowing alternatives to be evaluated early in a project. The results of the conceptual models integrate with OpenRoads for detailed and final design. This course is new. It was not taught at the 2015 LEARNING Conferences.

9 – IaDOT Geopak SS4 Implementation

Presenter: Thomas Hamski, Iowa DOT

The Iowa DOT has been working over the last several years on the implementation of Bentley Systems OpenRoads technology for road design. This discussion will cover the new workspace, the office's new workflow using the technology, and the deliverables to be produced while using OpenRoad

10 – Buy a Drone or Hire a Drone

Presenter: Steve Zeets, Terraplane, LLC

Steve will talk about what is needed to buy a drone for specific tasks or data collection purposes. Also, what is required to fly the drone and process the information. He will include information on what to look for if hiring a drone makes more sense than buying.

11 – Processing Survey SS2 GEOPAK

Presenter: Jeff Vaske, Midwest CAD Solutions

This presentation will cover how to import, review, and edit data contained in RAW Survey data files using OpenRoads Survey. Also included establishing Survey Settings and how to convert a GEOPAK SMD file into the XML format used by OpenRoads Survey

12 – Plan and Profile Sheet Generator

Presenter: Jason W. Dove, Crawford, Murphy & Tilly, Inc.

This session is for GEOPAK users who create plan and profile sheets using Sheet Generator. This session covers how to set up your Sheet Generator for your basic plan, profile, and plan and profile sheets

13 – Annotation Scale Implementation

Presenters: Steve Rick, Bentley Systems, Inc.

Are you using Annotation Scale? Do you want your design team to spend less project time scaling text, dimensions, detailing symbols, cells, references, and other geometry? Attend this lecture and learn the skills needed to implement a global setting called Annotation Scale. Annotation scale is essentially a plot scale that may be applied to different element types to scale or re-scale project data relative to the final print scale. This MicroStation feature allows the re-use of data amongst project participants at multiple scales without the need to redraw data or have duplication in a drawing. The lecture will focus on how annotation scale can be implemented as part of your civil project standards, and how it may be integrated it into your drawing production workflows. This course has been updated for the latest version of software but is similar to a course taught at the 2015 LEARNING Conference.

14 – Surviving the Transition to Connect

Presenter: Jeanne Aarhus, Aarhus Associates

This session will help the existing V8i user make the transition to the CONNECT Edition. Learn how to use your existing V8i skills and preferences to help get up to speed quickly using CONNECT. Learn to embrace the new ribbon interface and improve your interaction with MicroStation. Discover how you can raise your current MicroStation skills to the next level using the latest version of MicroStation. Don't miss out on this fun and enlightening session!

11:10 – 12:00 PM**15 – Ditch Models**

Presenter: Bob Rolle, Bentley Systems, Inc.

Learn multiple techniques to model ditches. Examples include using independent ditch profiles, independent horizontal geometry and profiles, concrete paving, and more. This course is new it was not taught in 2015 LEARNing Conferences.

16 – Roundtable Discussion on using ProjectWise

Presenter: Josh Greenfield and Chad Hightshoe, Iowa DOT

Participate in the discussion on how to work with ProjectWise. Using managed workspaces. File storage exchange and collaboration. Solving problems with GEOPAK. Use of the GEOPAK associated files from within ProjectWise or a network location. Exporting managed copies to complete work. Reference path issues. Tips that you want to share to improve workflows. Share your thoughts and learn from others on how best to use ProjectWise.

17 – Geopak Drainage

Presenter: Dan Calistrat, DTM Solutions

Whether you're new to Drainage or just need a review, this presentation of capabilities, workflows and 3D drainage modeling is for you! We'll exhibit all of the tools and their proper usage so you can efficiently use Drainage and resolve errors and warning messages.

18 – Processing Survey SS4

Presenter: Lisa Whitson, Bentley Systems, Inc.

This one-hour session covers another great collection of support questions and answers I have gathered while supporting administrators and users during my travels. This presentation might just prevent some problems for users, and help administrators and support people anticipate future questions.

19 – Design File Cleanup

Presenter: Rod Wing, EnvisionCAD

This session will cover a number of tools in MicroStation to help keep your files tidy and working efficiently. The tools we will be showing include Compress Options, Data Cleanup, Dimension Audit, Standards Checker, and VerifyDGN.

20 – All-New Top Ten Support Questions

Presenter: Patrice Rhodes, P.H. Rhodes, Inc.

This session covers another great collection of support questions and answers I have gathered while supporting administrators and users during my travels. This presentation might just prevent some problems for users, and help administrators and support people anticipate future questions.

21 – Using Commercial sUAS for Conceptual Design 3D Modeling

Presenter: Benjamin Sullivan, FOTH Infrastructure & Environment, LLC

We're entering the next generation phase with access to frequent and high-resolution aerial imagery data. This session will discuss using commercial sUAS systems for obtaining current site imagery for use in Bentley ContextCapture, Descartes and LumenRT to create conceptual design 3D models and animations for project planning, client and public collaboration.

1:00 – 1:50 PM

**22 – Corridor Modeler / Roadway Designer
Sioux City, Iowa***Presenter: Bill Wegner, HDR, inc.*

Roadway design is currently in the middle of an evolution from CAD generated plans and quantities towards BIM design with paperless plans and a 3D model as the deliverable. The I-29 Interstate project through downtown Sioux City is a complex, interdisciplinary project that has benefitted from the implementation of some of these new processes. This session will illustrate how BIM has been utilized on a real world project, what benefits it provided, and how a similar project might be done in the future.

23 – Transitioning from GEOPAK Drainage to SUDA*Presenter: Aaron Granquist, P.E., HR Green, Inc.*

The Iowa DOT is in the process of transitioning to OpenRoads technology. This presentation will show you how to successfully convert your pre-SS4 GEOPAK Drainage projects to Subsurface Design and Analysis (SUDA) within SelectSeries 4. The project conversion will be within the proposed Iowa DOT workspace and consistent with proposed Design Manual updates

24 – Creating Composite Models*Presenter: Lisa Whitson, Bentley Systems, Inc.*

You have completed a complex model that contains multiple corridors, linear templates, surface templates, and 3D geometry. Your model includes all of the proper pavement layers and sub surfaces but what do you do next? Join us for a discussion of how to use this model and how to create a terrain model that includes all of the parts of the model. This course is new. It was not taught at the 2015 LEARNing Conference.

25 – Open Bridge Modeler: What is it and How Can I Use it Today?*Presenter: Steve Willoughby, Bentley Systems, Inc.*

Develop intelligent, 3D, parametric bridge models within the context of an overall highway project with Bentley's OpenBridge Modeler. Easily manage changes with built-in, user-defined relationships among bridge components and reference DGN models throughout the lifecycle of the bridge. This session will cover bridge modeling with OpenBridge Modeler. Learn how roadway engineering data is integrated from OpenRoads as well as transferred directly into LEAP Bridge and RM Bridge for design and analysis. Attendees will learn how to leverage OpenRoads geometry data (terrain, alignments, profile, and super elevation) in bridge projects, layout a multi-span pre-stressed girder bridge using standard AASHTO beams, and define the bridge substructure.

26 – Sheets Happen*Presenter: Jeanne Aarhus, Aarhus Associates*

Are you using these new batch print capabilities? Or are you still printing everything one plot at a time? This session will make sure you know how to take advantage of the new Print Organizer batch printing functionality to improve your overall print environment. Don't miss out on all the new automation! Being the "master of printing" will get you the kind of attention that might just earn you a raise!

27 - Profile View/Vertical Alignment Tools*Presenter: Jeff Vaske, MW CAD*

Tired of using the old Vertical Alignment Generator? Open Roads provides a new dynamic way to create and update profiles. This presentation will be an introduction to the Open Roads way of vertical geometry that includes a new profile view.

28 – OpenRoads – VBA Feature Macros for Processing Survey Data*Presenter: Rod Wing, EnvisionCAD*

With the OpenRoads technology users now have the option to use VBA macros to process survey features as they are loaded and modified in MicroStation. This session will demonstrate how to use the feature macros in OpenRoads as well as examples of the types of processing that can be done

2:00 – 2:50 PM**29 – Civil Cells**

Presenter: Bob Rolle, Bentley Systems, Inc.

This hands-on course teaches you how to create civil cells. It will offer examples of civil cell creation while focusing on the tools and methods to impart rules and relationships to the civil cell elements.

30 – Visualization

Presenter: Ariel Rauk, Snyder & Associates

See how complex alignments and geometry can come together to create a realistic animation using Bentley MicroStation and Luxology rendering. Starting with a MicroStation 3D model, we will cover methods used in creating a realistic animation, including; placing and animating traffic, adding the surrounding landscape, adding and scripting actors, render settings and putting it all together in Adobe Premiere Pro.

31 – Corridor Modeler/Roadway Designer

Presenter: Dan Calistrat, Bentley Systems, Inc.

Corridor Modeling is coming! You'll be prepared with everything you need to know to model your corridors by attending this session. We'll cover the basics of corridor modeling including converting your workflows, creating the corridors, cutting cross sections, 3D modeling and animated drive through's.

32 - BrIM Analytics Product Update

Presenter: Steve Willoughby, Bentley Systems, Inc.

This session will provide a review of the updates and enhancements in the latest delivery of the CONNECT Editions of LEAP Bridge Concrete, LEAP Bridge Steel and RM Bridge. Bring your questions and learn how to master your challenging project design situations with the bridge project specialists on hand.

33 – Useful MicroStation V8i Configuration Variables

Presenter: Patrice Rhodes, P.H. Rhodes, Inc.

Configuration variables are at the heart of MicroStation's functionality. This session covers a collection of useful and interesting configuration variables that just might improve your workflow and productivity while increasing your options in controlling this software.

34 – Workspace Migration

Presenter: Steve Rick, Bentley Systems, Inc.

In MicroStation CONNECT Edition, there have been a number of changes to the way Configuration Files are organized and processed. This course describes those changes and how to migrate older workspaces to configurations. You should have a basic knowledge of Configuration File concepts and a familiarity with how they were used in MicroStation V8i and previous versions.

35 - LiDAR and Point Cloud Data

Presenter: Jeff Vaske, Midwest CAD Solutions

In this session we will explore various tools and methods within MicroStation and Descartes for importing, viewing, translating, and manipulating point cloud data. Time permitting we may even drape an aerial image onto a laser ground survey.

3:00 – 5:00 PM

**Closing Remarks, Membership Business
(Auditorium)**

Door prizes & Social Event (Vendor Area)

Friday Workshops			
7:30 - 8:00	Registration and Continental Breakfast		
Room No.	150-154	167-171	175-179
	WS7	WS8	WS9
	Roadway Designer- Point Controls, End Conditions Exceptions Bob Rolle	QuickStart MicroStation Connect Steve Rick	Quick Start OpenRoads Survey Lisa Whitson
12:00 - 12:30	Lunch (Stage Door Lounge 190) Afternoon Registration		
	WS10	WS11	WS12
	Bentley Map Fundamentals Rod Wing	Surviving in MicroStation 3D Jeanne Aarhus	QuickStart OpenRoads Geometry Lisa Whitson

WS7 – Roadway Designer- Point Controls, End Conditions Exceptions

Presenter: Bob Rolle, Bentley Systems, Inc.

This course teaches the core skills necessary to work with corridors. The course begins with what 2D and 3D elements get created and how the 2D and 3D models interact with one another. Next you will learn how to work with multiple templates in a single corridor and transition between them. You will learn how to override template geometry with Point Controls and End Condition Exceptions, how to target something other than the existing terrain, and how to assign Superelevation to a corridor.

WS8 – QuickStart MicroStation Connect

Presenter: Steve Rick, Bentley Systems, Inc.

This session will discuss the MicroStation CONNECT Edition feature updates including the introduction of a ribbon-style graphical user interface (GUI), a relocation of the workspace settings, a new Backstage, updated tools and dialogs, Property Driven Annotation, a new Explorer replacing Project Explorer, Named Boundaries, Sheet Index, Item Types, Tables and more! Learn to master these new and exciting features found in the MicroStation CONNECT Edition. This course has been updated for the latest version of software but is similar to a course taught at the 2015 LEARNING Conference.

Prerequisite: All Users

WS9 – QuickStart OpenRoads Survey

Presenter: Lisa Whitson, Bentley Systems, Inc.

This hands-on course is for users new to the OpenRoads Survey tools. You will learn to set up the survey settings including Points, Linking Codes, Data File Parsing, and Terrain Model settings. Using these settings you will import, review, and edit survey data from ASCII files, create Terrain Models, and export OpenRoads Survey Data to GEOPAK, InRoads, MX, and LandXML formats. This course has been updated for the latest version of software but is similar to a course taught at the 2015 LEARNING Conference.

Prerequisite: All Users.

WS10 – Bentley Map Fundamentals Workshop

Presenter: Rod Wing, EnvisionCAD

This course is designed for GEOPAK, InRoads, and MXRoads users who want to incorporate GIS data in their civil workflows. This course covers use of Map Manager for creating and managing map layers and themed output. Also covered are ArcView Shapefile interoperability capabilities as well as topology tools.

Prerequisite: Intermediate

WS11 –Surviving in MicroStation 3D

Presenter: Jeanne Aarhus, Aarhus Associates

This session is designed to get the intermediate MicroStation user beyond the everyday commands. Learn to work with 3D capabilities and to create and work in a 3D design file. Learn to create, view and edit 3D solids and surfaces. If you have always wanted to venture into 3D but have not had the opportunity to explore these advanced tools, this is your chance!

Prerequisite: All Users

WS12 – QuickStart Using OpenRoads Geometry

Presenter: Lisa Whitson, Bentley Systems, Inc.

During this hands-on course you will learn the underlying fundamentals of OpenRoads. Beginning with its set up you will learn to work with files and practices attaching existing ground terrain and aerial imagery, define horizontal and vertical geometry, and model an urban roadway and intersection using the OpenRoads Technology found in the current version of all Bentley civil applications. This course is designed for both new users and users upgrading from previous versions of GEOPAK, InRoads, MX, and Power Civil software to the OpenRoads Technology. This course has been updated for the latest version of software.

Prerequisite: All Users

We need more board members!

This is **YOUR** user group. If you would like to join the board, we can use all the help we can get!
Please volunteer at the end of the conference day or just contact any board member.

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There are only 10 members currently serving on the IDDEA BOARD. Please volunteer!

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What is a Bentley User Group?

User groups are all-volunteer, independently operated organizations that come together to discuss and share information across a variety of technical solutions. The Bentley User Group program represents a community of Bentley user groups around the globe dedicated to sharing ideas and increasing members' expertise in applying Bentley solutions and products.

The groups hold regular meetings – ranging from evening gatherings to three-day conferences that include lectures, workshops, and social networking – with the assistance of Bentley's User Group support team.

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