

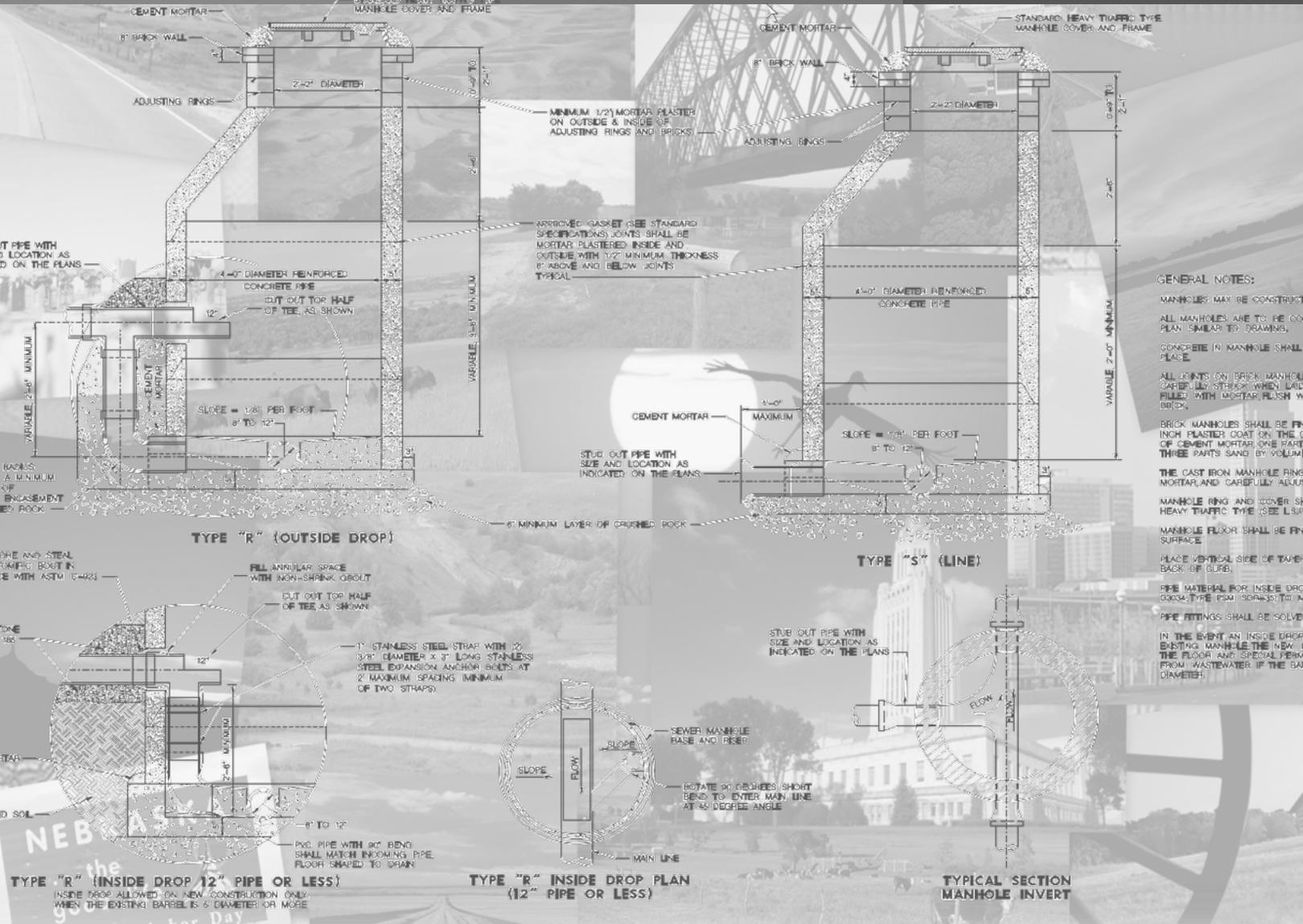
Nebraska User Group

Annual Conference

March 9-10, 2016



The Cornhusker Hotel, Lincoln, Nebraska



Advocating Engineering Technology Since 2004



This Event is Sponsored by



Bentley Institute



Welcome

Dear Conference attendee:

Welcome to the 13th annual Nebraska User Group Conference sponsored by Bentley Institute. We are again pleased to host this conference at the Cornhusker Hotel. Thanks to all of you for your participation with us this spring.

The Conference is a time to gather, share ideas and build on our knowledge about technology. We can make the most of this event by speaking with and listening to presenters and exhibitors. They provide the hardware, complimenting software technology and services we use daily.

Day One - Conference

Nebraska Department of Roads Director Kyle Schneweis will begin the morning with an address to the group on how NDOR is pursuing innovation.

The keynote will be provided by Derricke Gray, Product Manager for Bentley Civil Americas, Bentley Systems, Inc. titled "The Future of Civil Software"

By this point we are all accustomed to changing technology, but technology shouldn't just change for the sake of change. It needs to deliver better integration, more efficiency and improved workflows. This keynote will highlight the exploding civil technologies of 2016 with an eye toward how they are shaping the future of infrastructure delivery and investment returns.

As always, be sure to stick around for the wrap-up and drawing after Wednesday's last presentations. Will this be your lucky year?

Day Two – Workshop

This year we have provided eight workshops. All eight of our workshops are bursting at their seams; either completely full or near full capacity. Workshops will cover beginner to advance MicroStation and GEOPAK training.

Presenters, Sponsors, and Exhibitors

We would like to send out our sincere thank you to Kyle Schneweis for providing the welcome address, and Derricke Gray for the keynote; all the presenters, sponsors, and exhibitors for their participation in the NeUG 2016 Spring Conference & Workshop. We all benefit from their contributions, hard work and dedication.

Thanks to Bentley Systems, Incorporated, your continued support and participation in the Nebraska User Group allows our continued success!

Nebraska User Group, a Chapter of Bentley Community

My sincere thanks go out to Troy Norviel, Vice Chairperson (HDR), Shane Swope, Executive Secretary (The Schemmer Associates), Brian Jueneman, Treasurer (Olsson Associates), Jon Starr, Executive Assistant (NDOR), Mark Templeman, Executive Assistant (JEO Consulting Group Inc.) and Larry Lagsding, Executive Assistant (Felsburg Holt & Ullevig).

The Planning Committee works hard to meet the needs of the community in planning the conference and the group's efforts are truly appreciated.

I would also like to recognize our Planning Committee employers for their support and participation in the Nebraska User Group. This event takes a lot of time and effort in planning. Thank You!

Stay informed by visiting our website www.roads.ne.gov/NEUG for upcoming event dates and news. Your participation and feedback will make the next Conference even better!

Best Regards,



Mike Otte
City of Lincoln
Nebraska User Group
www.roads.ne.gov/NEUG



The logo features the text "NeUG" in a large, bold, blue font with a white outline, positioned above the text "Nebraska User Group" in a smaller, blue font. The background of the logo is a light gray map of Nebraska.

NeUG Officers, Keynote, and Presenters

NEUG OFFICERS

Michael Otte, City of Lincoln

Troy Norviel, HDR

Shane Swope, The Schemmer Associates

Brian Jueneman, Olsson Associates

Jon Starr, Nebraska Department of Roads

Mark Templeman, JEO Consulting Group Inc.

Larry Lagsding, Felsburg Holt & Ullevig

NEUG KEYNOTE

Kyle Schneweis, Director, Nebraska Department of Roads

Kyle Schneweis was appointed by Governor Pete Ricketts to serve as the Director of the Nebraska Department of Roads (NDOR) in May 2015. In that position, Schneweis leads the agency's more than 2,100 employees in planning for and addressing Nebraska's transportation needs. Prior to his appointment with NDOR, Schneweis was a partner at an industry-leading transportation policy and financial consulting firm where he provided strategic planning and performance management expertise to more than twenty-five national, state and local clients. He also has significant experience in the public sector, having served at the Kansas Department of Transportation where he played an instrumental role in developing and winning legislative approval for the state's \$8.2 billion transportation investment program. This balance of private and public sector experience allows Director Schneweis to bring a unique perspective to NDOR. His customer-focused and data-driven approach emphasizes transparency and stakeholder engagement and he understands the critical role strategic transportation investments can play in strengthening Nebraska's economy. Director Schneweis earned his civil engineering degree from the University of North Dakota and is a licensed professional engineer. He and his wife Laurel are parents to two toddler boys, Mazlo and Karver.

Derrick Gray, Bentley Systems, Inc.

Derrick Gray is a life-long resident of Tallahassee, Florida and has been involved in Civil Engineering and CADD for 29 years. After graduating in 1986 from Florida State University with a BS in Mathematics, he used Bentley products at the Florida DOT as well as in the consulting industry for several years before joining Bentley in 1997. He now serves as the Product Manager for Bentley Civil Americas.

NEUG PRESENTERS

Tom Sawyer, NDOR

Tom has over 25 years of experience working with Engineering Software at NDOR, a Bentley reseller, and engineering firms. His current role is supervising a small group within the Engineering Support section that handles the configuration, setup and support of MicroStation, Geopak and various engineering applications for NDOR.

Darren Bunker, Bentley Systems, Inc.

Before joining Bentley, Darren worked for 13 years for the Utah Dept. of Transportation, and 7 years as a Consultant to the Colorado Dept. of Transportation. His years at UDOT and CDOT included experiences in operations, materials, construction, and design and into engineering technologies and project management. He was instrumental in UDOT's adoption of ProjectWise as their Engineering Content and Document Management System and the timely and cost effective development and deployment of ProjectWise within CDOT. Darren has a Bachelor degree from Utah State University in Civil Engineering.

Holly Urbain, Seiler Instruments

Holly is a Trimble certified survey trainer. She is based in Madison Wisconsin. She started her career with the Wisconsin Department of Transportation in the field on a survey crew, advanced to crew chief and moved to standards and training at the central office. Her 14 years with Seiler Instrument have been in the Geospatial Surveying group in sales and support and training. Joining Holly will be Steve Tomps and Scott Howe from the Seiler Kansas City office, Steve Grady, Seiler Survey technical support and Kevin Hall from Seiler's Omaha office.

Bob Rolle, P.E. – Bentley Systems, Inc.

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 has worked for Bentley Systems for the last 5 years as a Civil Application Engineer for the Global Pre-Sales Team based out of Kansas City.

Mike Otte - City of Lincoln

With over 20 years of experience working with MicroStation, Mr. Otte splits his time with standards, documentation, supporting staff; among way too many unimportant things to be listed. Soon to celebrate 13 years at the City of Lincoln, Mike is now developing the third Bentley workspace for Engineering Services. When you cannot find Mike in the office, chances are he is at a softball field or with his grandchildren or both.

Derek Drew, SITECH Mid-Plains

Derek Drew is a Technology Sales Specialist for SITECH Mid-Plains. Derek has been with SITECH Mid-Plains for ten years and is responsible for technology sales in the construction market. He is also a Trimble Certified Trainer and Product Specialist. His undergraduate and graduate education is in Business Administration, with additional graduate concentrations in Marketing and Finance. Prior to joining SITECH Mid-Plains, Derek worked in the natural gas transmission industry for over eight years and brings a wealth of industry knowledge to his current role.

Chuck Lawson, PE, Bentley Systems, Inc.

Chuck has over 25 years in the engineering industry. After 10 years with a private consultant firm designing roads, project management and resident engineering, he joined forces with the Bentley-Civil team. He has been heavily involved assisting State agencies in the implementation of our products including GEOPAK and InRoads Suites in the transition to OpenRoads Corridor Modeling for the design and 3D modeling of roadway projects. Most recently Chuck has been assigned to aiding and providing advanced customization support with a specialization in workspace development and training.

Steve Rick, Bentley Systems, Inc.

With over 30 years experience in engineering technology, Mr. Rick 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 he develops and delivers client-specific Bentley training. Steve is proficient in training everything from Basic MicroStation to the most advanced topics as well as Bentley Map, Bentley Map Admin and ProjectWise User. He has also developed custom courseware for some of the agencies that he has trained.

NeUG Presenters (Continued)

Corey Johnson - InEight

Corey Johnson is responsible for delivering maximum value from InEight's InfinyD solution across Web, Mobile and Workstation-based platforms. Previously, he was a Manager of Virtual Construction for Kiewit Corporation, providing construction services in markets including transportation, water/wastewater, heavy civil, power, oil, gas and chemical, building and mining. Including five years at Bentley as a Solution Engineer focused on the DOTs and consulting community, Corey has worked 20 plus years in the design engineering, software and construction industries.

Matthew Gregor - Olsson Associates

With over 9 years of experience in the field, Matthew works as a GIS specialist for Olsson Associates (OA). He has extensive experience creating Geographic Information Systems (GIS) products for a variety of customers with the majority of his experience creating and maintaining data for engineering uses such as Water Resources, Environmental, Traffic, and Automated Technology. One of Matthew's key skills is converting legacy data into usable GIS data. In addition to providing local and regional GIS support for OA, Matthew also creates automation tools for iterating repetitive processes.

Jonathan Harris - Olsson Associates

As a geospatial analyst and airborne mapping program manager at Olsson Associates, Jonathan researches applications for manned and unmanned aerial data collection systems and has found that they can benefit nearly every aspect of the engineering firm's workflows. Jonathan's goal is to provide actionable, reliable, and verifiable data to the company, allowing Olsson Associates to sustain its role as a technical leader in the field. In 2015, Jonathan was part of a team of surveyors and engineers who received the prestigious American Council of Engineering Companies of Colorado, Excellence Award for their implementation of unmanned systems into their project work.

Jeanne Aarhus - Aarhus Associates, LLC

Jeanne is known for keeping her training sessions fast-moving and fun. She has more than 30+ years of experience in production drafting, user support, standards configuration and coordination, programming, and training. Jeanne is an independent consultant offering these services around the world and is certified in several Autodesk and Bentley products. She is a popular speaker at many Autodesk and Bentley conference events and was recently awarded "Top Speaker" out of 800+ speakers at Autodesk University 2014; and has been a "Top Ten" speaker for 10+ years and an "Ask the Expert" panelist.

Jared Wurtele - NDOR

Jared Wurtele is an EIT with NDOR. Jared graduated from the University of Nebraska-Lincoln with a Bachelors of Science in Civil Engineering. Jared has over 2 years of experience in roadway design using Geopak and Microstation specializing in OpenRoads technology. His roadway design experience includes drainage, intersection geometrics, ADA compliance, erosion control, plan set coordination and plan production.

Bill Baird - NDOR

Bill has over 29 years of experience with NDOR including working in a Survey Crew at a District Construction Office and 9 years in the Photogrammetry Department. The last 18 years, Bill has been working within the Engineering Support section that handles the configuration, setup, support and training of MicroStation, Geopak and various other engineering applications for NDOR.

Dan Barth, Felsburg Holt & Ullevig

Dan Barth is a graduate of the University of Nebraska at Omaha with a Bachelor's of Science in Civil Engineering. He has 3 years of experience in Roadway Design at FHU and has been involved in various design projects including local urban streets, state highways, and interstate projects. He has experience in modeling intersections, roundabouts, interchanges, and rest areas with Open Roads.

Michael Frecks – Terramatrix, LLC

Michael Frecks professional land survey experience involves high tech 3D LiDAR laser scanning as both an innovator in the industry as well as a consultant/advisor for its software development. Data collection experience and expertise is extensive in the transportation and architectural disciplines on more than 200 projects. A Professional Land Surveyor since 1992, Michael's approach to data documentation combining GPS, 3D laser scanners and INS, makes his approach more accurate, safer, faster, and cost efficient.

Julio Talero - City of Lincoln

28-year career with the Lincoln Fire Department as Captain and frequently providing PC support. The last 7 years I have achieved extensive knowledge in the field of GIS, creating and maintaining Geodatabase as well as development of several Web applications. I have been with Public Works and Utilities since 2013. I served as a main GIS editor for City Land-base as well as providing QA&QC services in order to assure the accuracy and completeness of new Sub-Division/plat projects. Over the past few months, I have transitioned into the role of GIS leadership for Public Works and Utilities.

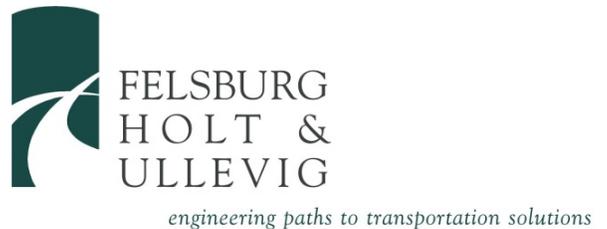
Joel Jacobsen—RW Engineering and Surveying

Joel Jacobsen is the Vice President of R.W. Engineering & Surveying where he has worked since 1996. Mr. Jacobsen graduated from Southwestern Community College in 1988 with a degree in Land Surveying. He has over 28 years of experience in all aspects of surveying. Mr. Jacobsen has been building 3D Machine Controlled Models for GPS machine control systems since 2004. He is a licensed professional land surveyor in the State of Nebraska.

Vendors



Presenting & Committee Member Companies



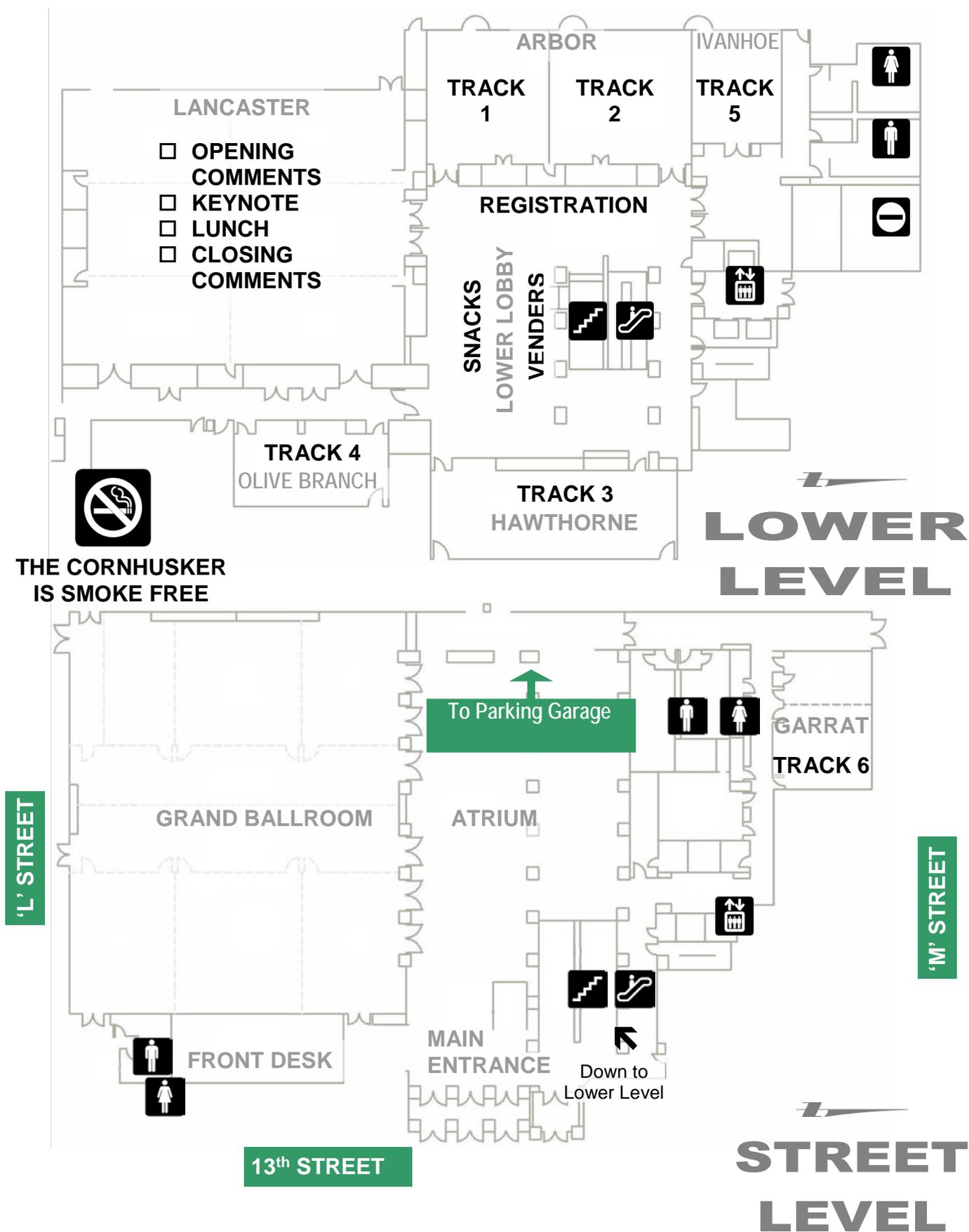
<p>Jeanne Aarhus Multi-CAD Specialist</p> <p>www.aarhusassociates.com</p>	<p><i>Your Technology Advantage</i> Training, Consulting, and Support Services</p> <p>Satisfaction Guaranteed</p> <ul style="list-style-type: none">• Custom Training• CAD Standards Consulting• CAD Management Support• Productivity Assessment <p>12005 Quail Drive Bellevue, NE 68123-1175 Office: 402-408-9696 jeanne@aarhusassociates.com</p>
---	--



Wednesday, March 9 – Conference

7:00 - 8:00	Registration & Breakfast Buffet						60 min.
8:00-8:10	Opening Remarks- Jon Starr, NeUG Planning Committee/NDOR						90 min.
8:10-8:30	Welcome Address- Kyle Schneweis, Director, Nebraska Department of Roads						
8:30-9:20	Keynote - The Future of Civil Software- Bentley Systems; Derricke Gray						
9:30-10:15	TRACK 1- Microstation	TRACK 2- Civil SS3 Beg.	TRACK 3- Misc	TRACK 4- Survey/GIS	TRACK 5- Misc.	TRACK 6- misc.	45 min.
	1 Microstation 201: Surviving in Microstation 3D Jeanne Aarhus Aarhus Associates, LLC	2 Best Practices- Geometry (3D Geometry Creation Tools) Steve Rick Bentley Systems, Inc.	3 LumenRT Bob Rolle Bentley Systems, Inc.	4 No Other Way Safely: The DOT's call for Survey Grade Mobile Mapping Michael Frecks Terramatrix, LLC	5 ProjectWise Tips and Tricks Darren Bunker Bentley Systems, Inc.	6 Panel Discussion - Corridor Modeling Various	
10:15-10:30	Vendor Break						15 min.
10:30-11:15	7 Microstation 202: Thriving in Microstation 3D Jeanne Aarhus Aarhus Associates, LLC	8 Best Practices - Terrain Bob Rolle Bentley Systems, Inc.	9 NDOR OpenRoads Use Case - Overlay Project Design Tom Sawyer / Jared Wurtele NDOR	10 SiteOPS Darren Bunker Bentley Systems, Inc.	11 OpenRoads Navigator - Mobile Chuck Lawson Bentley Systems, Inc.	12 Applications for Unmanned Aerial Vehicles in Transportation Jonathan Harris Olsson Associates	45 min.
11:15-11:30	Vendor Break						15 min.
11:30-12:15	13 Microstation Connect Edition - Update Steve Rick Bentley Systems, Inc.	14 Civil Product Update Chuck Lawson Bentley Systems, Inc.	15 NDOR Q/A Session (Engineering Software Support) Tom Sawyer & NDOR Team	16 Trimble Emerging Technologies Kevin Hall & Steve Tomps Seller Instruments	17 Creating a Realistic Model with pavement markings, signs and other objects Darren Bunker Bentley Systems, Inc.	18 CAD/GIS Update Julio Talero and Mike Otte City of Lincoln	45 min.
12:15-1:00	Lunch						60 min.
1:00 - 1:45	19 Plotting Survival Guide: Tips for Simplified Plotting Jeanne Aarhus Aarhus Associates, LLC	20 Civil Cells - Creation Bob Rolle Bentley Systems, Inc.	21 Intersection Modeling with Terrains and Linear Templates Dan Barth Felsburg Holt & Ulllevig	22 Trimble Business Center 3.61 Holly Urbain Seller Instruments	23 Using SUE with your Enterprise Asset Database Derricke Gray Bentley Systems, Inc.	24 Evolution of 3D Modeling and it's place in the Project Lifecycle Corey Johnson InEight	45 min.
1:45 - 2:00	Vendor Break						15 min.
2:00 - 2:45	25 Incorporate Project Explorer Into Everything You Do Steve Rick Bentley Systems, Inc.	26 Best Practices - Corridor Modelling Chuck Lawson Bentley Systems, Inc.	27 NDOR Survey Process- Bentley Civil Survey Bill Baird- NDOR & Bob Rolle- Bentley Systems	28 Mapping Grade Survey in GIS Matthew Gregor Olsson Associates	29 SUE/SUDA Integration with OpenRoads Design Workflows Derricke Gray Bentley Systems, Inc.	30 Open Open	45 min.
2:45 - 3:00	Vendor Break						15 min.
3:00 - 3:45	31 Microstation TIPNiques Jeanne Aarhus Aarhus Associates, LLC	32 Understanding Overlay Components Chuck Lawson Bentley Systems, Inc.	33 Why you need Civil Accudraw Bob Rolle Bentley Systems, Inc.	34 Surveying - Field to Plan: Through the use of UAVs and regular digital cameras Derek Drew SITECH Mid-Plains	35 Managing Project Reviews using ProjectWise Deliverables Management Darren Bunker Bentley Systems, Inc.	36 Open Open	45 min.
3:45 - 4:00	Vendor Break						15 min.
4:00 - 4:30	Wrap-Up: What's next?						30 min.

The Cornhusker Hotel



Wednesday, March 9 – Conference

7:00 – 8:00 A.M.

Registration & Breakfast

8:00 – 8:10 A.M.

Opening Remarks – Jon Starr, NeUG Planning Committee/Nebraska Department of Roads

8:10 – 8:30 A.M.

Welcome Address – Kyle Schneweis, Director, Nebraska Department of Roads

8:30 – 9:20 A.M.

Keynote - The Future of Civil Software

By this point we are all accustomed to changing technology, but technology shouldn't just change for the sake of change. It needs to deliver better integration, more efficiency and improved workflows. This keynote will highlight the exploding civil technologies of 2016 with an eye toward how they are shaping the future of infrastructure delivery and investment returns.

Presenter: Derricke Gray, Product Manager for Bentley Civil Americas, Bentley Systems, Inc.

1

9:30 – 10:15 A.M.

Microstation 201: Surviving in MicroStation 3D

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!
Presenter: Jeanne Aarhus – Aarhus Associates, LLC

2

9:30 – 10:15 A.M.

Best Practices- Geometry (3D Geometry Creation Tools)

This session takes a look at our 3D modeling tools and 3D functions in MicroStation. With an added bonus of how to draw in 3D proficiently and easily.
Presenter: Steven Rick - Bentley Systems, Inc.

3

9:30 – 10:15 A.M.

LumenRT

Use LumenRT to enliven models with life and nature, and produce attention-grabbing visuals. No matter your technical experience, you can easily use LumenRT to render cinematic quality in real time, animate models, incorporate digital nature, integrate seamlessly within CAD and GIS workflows, and share your creations with other stakeholders and clients.
Presenter: Bob Rolle – Bentley Systems, Inc.

4

9:30 – 10:15 A.M.

No Other Way Safely: The DOT's call for Survey Grade Mobile Mapping

The Bureau of Labor Statistics and the National Safety Council list land surveying as one of the most dangerous occupations. This presentation will address two projects after evaluation by the Minnesota DOT Terrestrial Mobile Mapping Scanning (TMLS) was the answer to this dangerous environment for their surveyors.
Presenter: Michael Frecks - Terramatrix, LLC

5

9:30 – 10:15 A.M.

ProjectWise Tips and Tricks

Be ready to take notes on several Tips and Tricks that will help you become an expert in navigating the ProjectWise interface, quickly locating the documents you need, and efficient methods for handling and sharing your documents with internal and external team members.
Presenter: Darren Bunker – Bentley Systems

6

9:30 – 10:15 A.M.

Panel Discussion - Corridor Modeling

Panel discussion focused on Corridor Modeling. Question and Answer.
Presenters: Derricke Grey, Chuck Lawson – Bentley Systems, Inc., Joel Jacobsen – RW Engineering and Surveying, Corey Johnson- InEight

7

10:30 – 11:15 A.M.

Microstation 202: Thriving in Microstation 3D

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 "smart" 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!
Presenter: Jeanne Aarhus - Aarhus Associates, LLC

8

10:30 – 11:15 A.M.

Best Practices - Terrain

This presentation provides best practices for working with OpenRoads terrain. During this session you will learn about the rules that define Terrain Models, the different Terrain Models types and how to manage Terrain Models.
Presenter: Bob Rolle - Bentley Systems, Inc.

9

10:30 – 11:15 A.M.

NDOR OpenRoads Use Case - Overlay Project Design

A discussion on how the NDOR Overlay Templates are intended to be used, how they work and a demo/discussion by a user on how the templates were used on an NDOR project.
Presenter: Tom Sawyer and Jared Wurtele – NDOR

10

10:30 – 11:15 A.M.

SiteOPS

Introduction to the automated toolset driving Optioneering in civil design. Explore quick data access and rapid prototyping of conceptual layouts, grading and 3D modeling.
Presenter: Darren Bunker - Bentley Systems, Inc.

11

10:30 – 11:15 A.M.

OpenRoads Navigator - Mobile

Come and hear about Bentley's OpenRoads Navigator, an easy-to-use, dynamic mobile software that provides quick access to civil data in the field. You can interactively view, analyze, and augment a wide variety of project information, including reviewing existing terrain, 3D models, and 2D topographies at any time during the scoping, planning, design, construction and maintenance phases. Check out the station / offset tools, redlines and mark-ups, and other features created specifically with civil work in mind.
Presenter: Chuck Lawson - Bentley Systems, Inc.

12

10:30 – 11:15 A.M.

Applications for Unmanned Aerial Vehicles in Transportation

Jonathan Harris, Director of Airborne Mapping will cover the basics of implementing UAVs into the Transportation environment. Topics covered will include regulations for both public entities and private contractors, terminology, applications, capabilities and limitations and predictions of the future of the technology. Mr. Harris will demonstrate several real world transportation datasets. **Presenter: Jonathan Harris – Olsson Associates**

13

11:30 – 12:15 P.M.

Microstation Connect Edition - Update

Take a Look at the new MicroStation Connect Edition Software. New Features, New Interface and new Tools.
Presenter: Steve Rick – Bentley Systems, Inc.

14

11:30 – 12:15 P.M.

Civil Product Update

There have been a lot of exciting changes to the Bentley Civil products over the last few months and years. But let's face it, sometimes it's hard to keep up! As always, this session will bring you up to date on these changes as well as give you a glimpse.
Presenter: Chuck Lawson - Bentley Systems, Inc.

15

11:30 – 12:15 P.M.

NDOR Q/A Session (Engineering Software Support)

An informal Q/A session driven by your questions. Ask the Engineering Software Support Team any questions you may have.
Presenter: Tom Sawyer – NDOR

16

11:30 – 12:15 P.M.

Trimble Emerging Technologies

We will explain the MX2 mobile LiDAR system and the Trimble UX5 and ZX5. Unmanned Aircraft Systems/Unmanned Aerial Vehicles (UAS and UAV) have quickly become the hot topic in surveying equipment. Updates and improvements to the Trimble S7 total stations with Trimble Vision for terrestrial Photogrammetry or just using the video screen in the field. Capabilities of the Trimble V10 spatial Station.
Presenter: Kevin Hall & Steve Tomps – Seiler Instruments

17

11:30 – 12:15 P.M.

Creating a Realistic Model with pavement markings, signs and other objects.

It used to be that, in order to create a realistic 3D model of your project; you had to be an expert. But now, with OpenRoads and MicroStation, every user has the ability to easily create high-quality renderings and animations. This session will cover the different toolsets used to make that happen.
Presenter: Darren Bunker – Bentley Systems, Inc.

18

11:30 – 12:15 P.M.

CAD/GIS Update

CAD/GIS Update for the City of Lincoln. We will also take a look at the future.
Presenter: Julie Talero and Mike Otte – City of Lincoln

12:15 – 1:00 P.M.

Lunch

Wednesday, March 9 – Conference (Continued)

- 19** 1:00 – 1:45 P.M.
Plotting Survival Guide: Tips for Simplified Plotting
Do you still use a fence to generate a plot? Are you a CAD manager with gobs of .plttc files? If so, its time to re-evaluate your environment and simplify everyone's life! This session will investigate the new automation features available in MicroStation V8i printing. Being the "master of printing" will get you the kind of attention that might just earn you a raise!
Presenter: Jeanne Aarhus - Aarhus Associates, LLC
- 20** 1:00 – 1:45 P.M.
Civil Cells - Creation
Gain an understanding of what civil cell references are and how to use them in a practical workflow. Learn how to create a civil cell utilizing geometry, area templates, and linear templates.
Presenter: Bob Rolle, Bentley Systems, Inc.
- 21** 1:00 – 1:45 P.M.
Intersection Modeling with Terrains and Linear Templates
This presentation will provide a way to create Drives and Intersections in Open Roads with the use of Terrains, Linear Templates, and Surface Templates to make an accurate model.
Presenter: Dan Barth – Felsburg Holt & Ullevig
- 22** 1:00 – 1:45 P.M.
Trimble Business Center 3.61
What new in this 3.61 update of TBC, demonstrate importing Trimble DiNi level data and demonstrate how to update the coordinate for a point submitted to NGS Online positioning user service (OPUS). Discussion of Trimble RTX and Trimble VRS and well as other new additions to the TBC software suite.
Presenter: Holly Urbain – Seiler Instruments
- 23** 1:00 – 1:45 P.M.
Using SUE with your Enterprise Asset Database
Get a firsthand look at the OpenRoads tools for design and modeling of utility features. Subsurface Utility Engineering (SUE) provides access to external sources of utility information for 3D modeling of existing utilities and conflict management tools. StormCAD for OpenRoads (SUDA) tools provide drainage design with integrated 3D modeling.
Presenter: Derricke Gray – Bentley Systems, Inc.
- 24** 1:00 – 1:45 P.M.
Evolution of 3D Modeling and its place in the Project Lifecycle
Emerging 3D modeling and technologies are transforming the way transportation projects are planned, designed, constructed, and managed. This presentation will focus on Guidance, Best Practices, and Trends including recent FHWA, State DOT, Consultant, and Contractor developments and initiatives in this shift to 3D and will give examples of why projects have used 4D and 5D modeling and what is nD.
Presenter: Corey Johnson - InEight
- 25** 2:00 – 2:45 P.M.
Incorporate Project Explorer Into Everything You Do
Project Explorer is basically file and resource harvesting built in to MicroStation. See what you can do to make your job easier with project explorer.
Presenter: Steve Rick – Bentley Systems, Inc.
- 26** 2:00 – 2:45 P.M.
Best Practices - Corridor Modelling
This presentation will provide the best practices to use Corridor Modeling successfully in the OpenRoads environment. The highlights will range from the fundamentals, enhancements offered in SELECTseries 4, leading into tips and tricks, and other.
Presenter: Chuck Lawson – Bentley Systems, Inc.
- 27** 2:00 – 2:45 P.M.
NDOR Survey Process - Bentley Civil Survey
This presentation covers the configuration, workflow and deliverables using Bentley Civil Survey at the Nebraska Department of Roads.
Presenter: Bill Baird - NDOR & Bob Rolle – Bentley Systems, Inc.
- 28** 2:00 – 2:45 P.M.
Mapping Grade Survey in GIS
This presentation will demonstrate how to set up for a survey using Trimble GeoXT survey equipment and Trimble Positions for post processing, actually survey using Trimble GeoXT, check in the survey, and present the data in the format they choose to.
Presenter: Mathew Gregor – Olsson Associates
- 29** 2:00 – 2:45 P.M.
SUE/SUDA Integration with OpenRoads Design Workflows
See how to build models of utility and drainage systems integrated with the OpenRoads road/site design tools. Using Subsurface Utility Engineering (SUE) tools you will create models of existing and proposed utilities and see how to build models from external GIS data. Using StormCAD for OpenRoads (SUDA) you will learn how to layout and design a drainage network with integrated 3D modeling.
Presenter: Derricke Gray – Bentley Systems, Inc
- 30** 2:00 – 2:45 P.M.
Open
- 31** 3:00 – 3:45 P.M.
Microstation TIPNiques
This session is an assortment of time saving tips and tricks that can be used to increase your productivity. Attend this session if you are too busy "working" to spend time digging through all the "New" and "Old" documentation and on-line information. If you attended this session previously, be sure to attend this year to see an all NEW assortment of tips!
Presenter: Jeanne Aarhus - Aarhus Associates, LLC
- 32** 3:00 – 3:45 P.M.
Understanding Overlay Components
This presentation is intended for those working on overlay projects. The settings for an Overlay Component in the template library editor can seem overwhelming. This presentation will completely explain each setting and demonstrate their effects. This is a must attend for anyone working on or planning to work on an overlay project.
Presenter: Chuck Lawson – Bentley Systems, Inc.
- 33** 3:00 – 3:45 P.M.
Why you need Civil Accudraw
Find out why Civil Accudraw is an important component to OpenRoads.
Presenter: Bob Rolle – Bentley Systems, Inc.
- 34** 3:00 – 3:45 P.M.
Surveying - Field to Plan: Through the use of UAVs and regular digital cameras
Learn how the growing use of UAV's can change the way you collect data. Datamate's products are revolutionizing "field-to-plan" processes and serve a multitude of customers, including private land surveying firms, construction companies and national mapping agencies, allowing them to execute and process their topographic and as-built surveys easier, faster and with enhanced quality
Presenter: Derek Drew – SITECH Mid-Plains
- 35** 3:00 – 3:45 P.M.
Managing Project Reviews using ProjectWise Deliverables Management
This session will illustrate the functionality of the updated PW Deliverables Management (PWDM) tools and how they contribute to improved collaboration, review, and approval stages of a project through the use of work packages and project dashboards and a look at upcoming options available in the CONNECT edition for collaborating with project team members that do not have access to ProjectWise.
Presenter: Darren Bunker – Bentley Systems, Inc.
- 36** 3:00 – 3:45 P.M.
Open
- 4:00 – 4:30 P.M.
NeUG Wrap up and Door Prizes
Presenter: Nebraska User Group, Committee Planners

Thursday, March 10- Workshops

7:15 – 8:00 A.M.

Morning Registration & Buffet Breakfast

1

8:00 A.M. – 12:00 P.M.

Beginner Microstation

This is a basic MicroStation class that will show you the best way to get started with the software. From basic screen setup to tools selection and the use of Accudraw. We will also spend some time with little tips and tricks to assist you in greater drawing production.

Presenter: Steve Rick - Bentley Systems

2

8:00 A.M. – 12:00 P.M.

SUE/SUDA Integration with OpenRoads Design Workflows

See how to build models of utility and drainage systems integrated with the OpenRoads road/site design tools. Using Subsurface Utility Engineering (SUE) tools you will create models of existing and proposed utilities and see how to build models from external GIS data. Using StormCAD for OpenRoads (SUDA) you will learn how to layout and design a drainage network with integrated 3D modeling.

Presenter: Bob Rolle and Chuck Lawson – Bentley Systems, Inc.

3

8:00 A.M. – 12:00 P.M.

Beginner Corridor Modeling

This hands-on workshop will provide the best practices to use Corridor Modeling successfully in the OpenRoads environment. The highlights will range from the fundamentals, enhancements offered in SELECTseries 4, leading into tips and tricks, and other advance topics.

Presenter: Darren Bunker - Bentley Systems, Inc.

4

1:00 P.M. – 5:00 P.M.

Trimble Business Center Software

Hands on for the core functionality of TBC. TBC project settings and software options. Creating projects and project templates and file storage locations, perform importing, device transfers and use of the new Total Station editor and updated Level editor. Produce reports and export to required formats. Merge adjusted leveled information with the GNSS data. Traverse adjustment and closure reports.

Presenter: Holly Urbain – Seiler Instruments

12:00 – 1:00 P.M.

Lunch

12:30 – 1:00 P.M.

Afternoon Registration

5

1:00 P.M. – 5:00 P.M.

3D Visualization in Civil Environment/Project

Learn how to take your projects and make the look real with visualization and traffic animation. Learn how to make and apply materials, create environments and setup up solar lighting. We will also learn the basics of traffic animation, creating actors, creating cameras and scripting the animation process.

Presenter: Steve Rick - Bentley Systems

6

1:00 P.M. – 5:00 P.M.

Overlay

This course teaches how to model overlay and stripping and adjust the Vertical alignment to achieve cost savings in road rehabilitation projects.

Presenter: Chuck Lawson - Bentley Systems, Inc.

7

1:00 P.M. – 5:00 P.M.

Intersection Modeling in OpenRoads

Advanced - This course teaches tools and techniques that can be used to model an at grade intersection. It will focus on OpenRoads methods, such as using Linear Templates, Quick Profile Transitions, and Surface Templates to provide flexibility and efficiency in addressing the varied needs and circumstances that arise when designing an at-grade intersection.

Presenter: Darren Bunker - Bentley Systems, Inc.

8

1:00 P.M. – 5:00 P.M.

Civil Cells

You will learn the basics of placing civil cells. This includes gaining an understanding of what civil cell references are and how to use them in a practical workflow. You will learn to use the civil cells delivered with the product, as well as how to use civil cells taken from external sources and incorporate them into your models.

Presenter: Bob Rolle - Bentley Systems, Inc.

Registration & Breakfast					45 min.
7:15 - 8:00					
8:00-10:00	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">1</div> <p style="text-align: center;">Beginner Microstation</p> <p style="text-align: center; font-size: small;">Steve Rick Bentley Systems, Inc.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">2</div> <p style="text-align: center;">SUE/SUDA Integration with OpenRoads Design Workflows</p> <p style="text-align: center; font-size: small;">Bob Rolle/Chuck Lawson Bentley Systems, Inc.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">3</div> <p style="text-align: center;">Beginner Corridor Modeling</p> <p style="text-align: center; font-size: small;">Darren Bunker Bentley Systems, Inc.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">4</div> <p style="text-align: center;">Trimble Business Center Software</p> <p style="text-align: center; font-size: small;">Holly Urbain Seiler Instruments</p> </div>	120 min.
10:00 - 10:15	Break				15 min.
10:15 - 12:00	(cont.)	(cont.)	(cont.)	(cont.)	105 min.
12:00 - 1:00	Lunch				60 min.
12:30 - 1:00	Afternoon Registration				30 min.
1:00 - 3:00	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">5</div> <p style="text-align: center;">Visualization in Civil Environment/Project</p> <p style="text-align: center; font-size: small;">Steve Rick Bentley Systems, Inc.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">6</div> <p style="text-align: center;">3D Overlay</p> <p style="text-align: center; font-size: small;">Chuck Lawson Bentley Systems, Inc.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">7</div> <p style="text-align: center;">Intersection Modeling in OpenRoads</p> <p style="text-align: center; font-size: small;">Darren Bunker Bentley Systems, Inc.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">8</div> <p style="text-align: center;">Civil Cells</p> <p style="text-align: center; font-size: small;">Bob Rolle Bentley Systems, Inc.</p> </div>	120 min.
3:00 - 3:15	Break				15 min.
3:15 - 5:00	(cont.)	(cont.)	(cont.)	(cont.)	105 min.



The Bentley Empowered User Group program provides consistent and dependable support to a collection of independent user groups around the globe. These groups are dedicated to sharing their ideas and increasing their expertise in applying Bentley solutions and products.

The Be User Group Program allows user groups to hold local meetings and conferences in which users have the opportunity to:

- Increase knowledge of Bentley solutions
- Receive professional/technical training
- Exchange ideas and experiences
- Network with industry peers and Bentley colleagues
- Provide feedback directly to Bentley

The result of this networking and learning is increased technical expertise and knowledge of best practices, invaluable connections with peers, and enhanced productivity for the users and their organizations.

<http://www.bentley.com/en-US/Community/BE+User+Group/>



NeUG Contact Information

www.roads.ne.gov/NEUG



Mike Otte

Chair, City of Lincoln

Email: lotte@lincoln.ne.gov

Troy Norviel,

Vice Chair, HDR

Email: tnorviel@hdrinc.com

Brian Jueneman

Treasurer, Olsson Associates

Email: bjueneman@oaconsulting.com

Shane Swope

Executive Assistant, The Schemmer Associates

Email: sswope@schemmer.com

Jon Starr

Executive Assistant, Nebraska Department of Roads

Email: jon.starr@nebraska.gov

Mark Templeman

Executive Assistant, JEO Consulting Group Inc.

Email: mtempleman@jeo.com

Larry Lagsding

Executive Assistant, Felsburg, Holt & Ullevig

Email: larry.lagsding@fhueng.com