

Torsdag 9 november							
Kungsholmen 2							
Kaffe och registrering / Coffee and registration							
Välkomna/Welcome							Thomas Vincent and Mattias Hemmingsson
09:35 10:30	Driving the Digital Agenda We all want to drive business value and help our organizations be competitive. Digitally enabled innovation is redefining our industry, and presents many challenges and opportunities to improve your core business, reset client expectations, and create new go-to-market approaches. Are you ready? How will you identify and harness your digital potential? How will you ensure that you stay focused and avoid chasing the next shiny thing? Learn ways you can help drive digital transformation and position your organization to excel.						Claire Rutkowski, Chief Information Officer, Bentley Systems
10:30 11:20	The Convergence of Digital Design and Reality Modeling In this informative presentation, you will discover how to make the best design decisions thanks to the convergence of digital modeling and precise virtual representation of the real world. Join us to discover how Bentley is converging virtuality and reality through its reality modeling and design modeling applications. You will also learn how MicroStation CONNECT Edition's						Ronald Zeike
11:30 11:50	BUS - Årsmöte						BUS Styrelse
12:00	Lunch						
Rum	Courtyard 2&3	Courtyard 6&7	Kungsholmen 1	Kungsholmen 2	Lindholmen	Courtyard 8&9	Courtyard 5
Spår	Lecture - Bygg	Workshop - Civil	Lecture - Civil	Lecture - Rail	Lecture - Plattform	Workshop - Plattform	Lecture - MicroStation & Tech Related
13:00 13:50	Keynote - AECOSim Building Designer CONNECT Edition Update Explore the improved interface, enhanced tools, and exciting new capabilities that will help you improve your interoperability, collaboration, personal productivity, and information sharing. Also, see how you can explore the new personalized learning and tips without leaving the product experience with CONNECT Advisor, the new AECOSim Building Designer QuickStart sessions, and new Adaptive Learning offerings.	Understanding the Georeferenced Coordinate Systems and Point Cloud Tools Come explore Georeferenced Coordinate Systems and the new LiDAR tools under the reality modeling tab in OpenRoads Designer. We will take a look into what a Georeferenced Coordinate System is and why setting the correct one is critical for your project's success. We will also explore some of the new tools available for processing Point Cloud data. You will learn to build a terrain model from unclassified LiDAR data. Using the new tools we will be able to remove most of the first return shots (foliage) and get a more accurate representation of the ground's surface. Interested but not ready for a hand-on workshop? This session is also offered on Monday as a lecture only session. The course will be taught using the OpenRoads Designer, CONNECT Edition software but the concepts and workflows are similar in GEOPAK, InRoads, MXROAD, and PowerCivil SELECTseries 4 software.	Keynote - Civil Product Update (Kungsholmen 2) Join the product management team for a product review and a preview of the future developments		Keynote: Going Digital... with ProjectWise Vilken roll kan ProjectWise spela i er digitaliseringsstrategi? Hör om hur ProjectWise CONNECT Edition kan stödja ert dagliga arbete och vad som planeras för ProjectWise inom den närmaste framtiden.	Tips & Tricks for Practical Application Integration and Workspace Management Join us for a hand-on session where you will learn tips & tricks to configure your design application and managed workspaces. You will also learn how best to configure MicroStation CONNECT Edition for use with ProjectWise.	Working with Geographic Data Geographic shapefiles are a common format used for exchanging geographic data. In this course, you will learn how to incorporate data from geographic information systems (GIS) supplied in the shapefile format within your MicroStation mapping project.
	Brenden Roche, Bentley	Jonathan Smith	Ian Rosam		Stefan Sigvardsson	Graham Hirst, Bentley	Ronald Zeike
14:00 14:50	ProStructures: Steel, concrete and rebar 3D modeling In addition to the capabilities of structural design embedded in AECOSim Building Designer, you can model more flexible and more detailed 3D structural steel by using ProStructures. It is possible to go as far as fabrication, including NC support and fabrication documentation, but this session is focused (almost) only on the modeling part, and how the integration with ABD and other solutions is working. In addition, you will learn how to add rebar to your concrete objects, also in 3D.	Understanding the Georeferenced Coordinate Systems and Point Cloud Tools (Continued)	BIM Up Your Projects with OpenRoads You may have been asked, 'Do you use BIM?', 'Are you BIM compliant?', or even, 'What is BIM?'. But, the real question is 'Are you already BIM-ing?' In this session, we will discuss how OpenRoads is BIM. We will look at what it means in a practical sense, how it looks in production, and how to take advantage of information modeling in your designs and workflows. We will discuss questions like: What is an OpenRoads BIM model?, When does BIM start?, Why should I care about BIM? Ian Joyce		Introducing The MicroStation CONNECT Edition The MicroStation CONNECT Edition features many updates to the user interface. These updates include the introduction of a ribbon-style graphical user interface (GUI), a relocation of the "workspace" settings such as Preferences and Configuration, and more. This course contains a set of exercises that are used to become familiar with the ribbon style interface found in the MicroStation CONNECT Edition.	Tips & Tricks for Practical Application Integration and Workspace Management (continued)	Using Terrain in MicroStation CONNECT Edition In this course, you will learn to visualize imported point data on the earth surface and display Contours, Triangles, Voids, Islands, Flow Arrows and many other Terrain Features. You also will learn to label Contour and Spot Elevations.
	Brenden Roche	Jonathan Smith	Ian Joyce		Karsten Pudziow	Graham Hirst, Bentley	Ronald Zeike
15:00	Kaffe och kaka						
15:20 16:10	Best practices for Geo-Coordination in a AECOSim project, Bing maps and Google earth	Creating and Manipulating the Corridor In this workshop, you will explore the many tools and techniques available to edit and manipulate a corridor. You will learn how to override default template widths and depths using parametric constraints and how to follow civil geometry using point controls. We will edit template drops, copy template drops, and create end condition exceptions as the design parameters change along the corridor. Finally you will learn how corridors interact with one another and other objects using corridor references, target aliasing and clipping references. The course will be taught using the OpenRoads Designer, CONNECT Edition software but the concepts and workflows are similar in GEOPAK, InRoads, MXROAD, and PowerCivil SELECTseries 4 software.	Conceptualize and Communicate Your Road Design with OpenRoads ConceptStation OpenRoads ConceptStation helps you jump-start your projects by rapidly creating conceptual models that allow you to evaluate design alternatives and estimated costs faster, resulting in improved project decisions. Use OpenRoads ConceptStation's powerful modeling capabilities to model roads, rail, intersections, bridges, tunnels and more. Continuously updated estimated project costs make it easy to evaluate design alternatives and options. The conceptual models are easily shared with the public and stakeholders using the built in realistic visualizations capabilities.	Rail Signaling overview and what's new in SS8 release Rail Signaling is a solution for information modeling of the rail corridor as well as associated Plans, Schematic Wirings and Panel Layouts. It's suitable for electrical, signaling, telecom and trenching disciplines. We'll go through what's new in latest version as well as demonstrate how to build a project from scratch, utilizing the track alignment and overhead line design. We'll further develop the project with schematic diagrams for the internal wiring and demonstrate how to create schematic diagrams.	Migrating WorkSpaces to MicroStation CONNECT Edition Configurations In MicroStation V8i, the overall usage of Configuration Files and Configuration Variables were referred to as Workspaces. That overall usage is referred to as the Configuration in MicroStation CONNECT Edition. In MicroStation CONNECT Edition, there have been a number of changes to the way Configuration Files are organized and processed. In this course you will learn how to migrate your V8i workspace to a MicroStation CONNECT Edition Configuration.	ProjectWise and OpenRoads Designer CONNECT Edition Join this hands-on class to get best practice instructions when using ProjectWise with OpenRoads Designer CONNECT Edition.	Utilizing Drone and Aerial Photos See how the use of aerial imagery can improve your 3D mesh models. Learn how you can merge your aerial and ground imagery to create one cohesive mesh model.
	Brenden Roche	Ian Joyce	Dan Ahern	Håkan Norling	Ronald Zeike	Graham Hirst, Bentley	Jerard Marsh
16:20 17:10	Lighting calculations using Dialux: learn how to calculate daylight and lux levels with Aecsim Building designer and Dialux	Creating and Manipulating the Corridor (Cont.)	CONNECT Advisor - The Search Tool You Have Been Waiting For Meet Bentley's in-product search hub that provides you fast search and viewing of technical resources from the LEARN server, Bentley Communities, Product Help, and YouTube. Now you can quickly find and view that training video, Wiki article or help from a single search without having to leave the software! CONNECT Advisor is already part of your software, not another application to buy. Are you taking advantage of this powerful resource? If not, join us to see what it can do and learn how you can empower yourself today.	OpenRail ConceptStation - Planning Stage Layout, Cost Estimations and Visualization Come see how the recently released OpenRail ConceptStation software enables rail designers during the planning stage to easily layout and generate cost estimates of rail corridors and yards, including overhead electrification. Once conceptualized, now visualize the design model, including train animations, for clear communication with project stakeholders.	Introduction to ProjectWise Connection Services In this session, we will provide an introduction to ProjectWise Connection Services where users can more easily collaborate with capabilities to improve how you share project content, adhere to standards, communicate requirements and deliverables and understand project status.	ProjectWise and OpenRoads Designer CONNECT Edition (Continued)	Ground Extraction from Mesh or Point Cloud "Ground detection" is a Bentley Descartes tool that uses a point cloud file to create a terrain model representing the bare earth and then uses this terrain model to classify point cloud points as "ground".
	Karsten Pudziow	Ian Joyce	Dan Ahern	Rob Nice	Hans Koorneef, Bentley	Graham Hirst, Bentley	Jerard Marsh
17:10 18:30	Mingel (dryck och tilltugg)						
18:30	Middag						

Fredag 10 november							
Rum	Courtyard 2&3	Courtyard 6&7	Kungsholmen 1	Kungsholmen 2	Lindholmen	Courtyard 8&9	Courtyard 5
Spår	Lecture - Bygg	Workshop - Civil	Lecture - Civil	Lecture - Rail (Civil)	Lecture - Platform	Workshop - MicroStation	Lecture - MicroStation & Tech Related
08:00					Kaffe och smörgås		
09:00 09:50	Starting with GC for BIM - Creating a Building Mass Model (1): using GC to explore an early stage design	Getting Started with OpenRoads Designer This course provides a 'Test Drive' or introduction to the capabilities of the OpenRoads Designer software. In this hand on course you will import terrain and geometry, model roads, integrate bridge models, integrate and review subsurface utilities, create cross section sheets, and create plan sheets. If you are interested in more in-depth training on OpenRoads Designer the QuickStart for OpenRoads Designer courses are recommended. The course will be taught using the OpenRoads Designer, CONNECT Edition software.	Enhanced Engineering Model Attribution for OpenRoads Designer Learn how model attribution can be used to assign and harvest engineering attributes throughout your workflow. We will explore how to assign state (existing, proposed, abandoned), attach pay item definitions, calculate quantities, asset tagging, and more. Query the attributes to control what is displayed, create property driven annotation, run reports, and to create tables from the data.	Rail Signaling other modes, utility features and Trafikverkets Promis.e apps In this session we'll demonstrate how to utilize created components, in other modes. We'll build a Track Layout Mode model based on the track alignment from Bentley Rail Track and synchronize Track Layout Mode and the 3D Layout Mode. Moreover, demonstrate how to utilize reality data with the design and the signal sighting feature. We'll then look into the Promis.e apps from Trafikverket, KopplingsSchema and APDL.	BIM Review for Improved Project Coordination Streamline your BIM reviews and inspections from office, site or field using Navigator CONNECT Edition. Whether on desktop, laptop or touch enabled devices, learn how you can access data-rich virtual construction models to perform design reviews and resolve issues. Built on new technology with user workflows in mind, Navigator CONNECT Edition delivers connected collaboration and visibility into project information throughout design, construction, and operations.	QuickStart Using ContextCapture This hand-on training introduces you to ContextCapture and how to create 3D models and meshes from standard imagery. You will learn how to submit images for processing, to add control points to geolocate a project and how to take measurements from the resulting 3D data set. The course will be taught using the ContextCapture software.	Attaching Quantity Data to Elements Using Item Types in MicroStation CONNECT Edition In this course, you will learn how to precisely place cells representing trees that will eventually be tied to a Tree Item Type. Item Types are used to generate quantity based reports. You will change an existing closed shape into a Ground Cover element via its Item Type. Item Types are used to add non graphic properties to a MicroStation element.
	Brenden Roche	Ian Joyce	Rob Nice	Håkan Norling	Dan Cutler, Bentley	Jerard Marsh	Karsten Pudziow
10:00 10:50	BIM Enlivened – AECOSim Building Designer & LumenRT Enrich your AECOSim Building Designer models to make them look more realistic with LumenRT. Rendering with LumenRT not only saves your time but also provides a huge library of 3D content to add more innovative features to your model. Immerse buildings within a real-time visualization environment populated with moving people, wind-swept plants with seasonal foliage, rolling clouds, rippling water, and animated vehicles. Easily share interactive, immersive 3D presentations with any stakeholder using Bentley LumenRT LiveCubes.	Getting Started with OpenRoads Designer (Continued)	Why you Should be Using Subsurface Utilities and How to Get There Can OpenRoads Subsurface Utilities design drainage systems like you currently do? Yes it can. Does OpenRoads Subsurface Utilities provide me additional capabilities and benefits? Yes it does. What do I need to know before implementing Subsurface Utilities? How do I ensure success when implementing Subsurface Utilities? Join us to answer these and other questions during this session.	Rail Track Corridor Modelling Learn a proper workflow to model rail corridors with the OpenRoads corridor modeling tools while maintaining geometry in the native Rail Track tools.	Visualization for Everyone! Enliven your MicroStation, ConceptStation, OpenBridge and OpenRoads models with life and nature. Produce cinematic quality visuals and animate models in real time. Yes you can do this! You don't need a visualization specialist with LumenRT! Its time you take a look at this powerful capability built into many of the applications you are already using.	QuickStart Using ContextCapture (Continued)	Reporting on Item Types in MicroStation CONNECT Edition In this course, you will learn how to create several reports, one for Shrubs and another for Trees. Both items have Item Types tied to cells in the Landscape design file. Our Report Definitions will be created in the attached DGNLIB. You will format the report as well as define sorting options. You will create another report for Ground Cover, but not only do we want our Item Types reported on, we also want to quantify the Ground Cover elements area in square footage. You will create a report based on Item Types but also display both the count or number of elements and the length of each line or line string.
	Karsten Pudziow	Ian Joyce	Jonathan Smith	Rob Nice	Ronald Zeike	Jerard Marsh	Karsten Pudziow
11:00 11:50	AECOSim Energy Simulator - Conceptual Mass Modeling and gbXML Interoperability	Using Civil Cells During this hand-on course you will learn how to place 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. You will learn to edit and re-use civil cells that have been placed within a model. The course will be taught using the OpenRoads Designer, CONNECT Edition software but the concepts and workflows are similar in GEOPAK, InRoads, MXROAD, and PowerCivil SELECTseries 4 software.	Modeling Techniques - Roundabouts Join Bentley experts as they share techniques to model roundabouts in OpenRoads Designer.	Including Geotechnical in an OpenRoads Designer Model gINT Civil Tools provide the civil designer an easy way to include geotechnical and other data from a gINT database in their OpenRoads Designer model.	Expand ProjectWise Workflows Beyond Design Integration Join this session to explore the best way to scale ProjectWise Design Integration to meet your ever expanding organizational and project needs.	Modeling and Managing Features in 3D Modeling in MicroStation CONNECT Edition This course is for MicroStation CONNECT users from any discipline, involved in 3D solid modeling. It covers the approach where features are added to a primitive solid to build the final solid model. Different ways of accessing and modifying these features are then laid out. The latter part deals with Variables and Expressions for a more advanced user; which are used to correlate feature parameters so that the solid responds coherently to change without deviating from the design goals. Finally Variations are introduced as a means of storing and implementing standard/commonly used sizes of a solid.	Employing your 3D Models into Visualization Applications See how your 3D mesh of existing condition be transformed into your design. Quickly create images, videos and real-time presentations of Architecture, Landscape, Urban and Infrastructure Designs. With LumenRT, you will 'Tell a Better Story'. Win business through more engaging user experiences while still working in Your Design System. Nothing to learn! Quickly bring your scenes to life using tools you know. Enjoy high quality graphics with real-time natural lighting.
	Brenden Roche	Dan Ahern	Ian Rosam	Ian Joyce	Hans Koorneef, Bentley	Karsten Pudziow	Jerard Marsh
12:00					Lunch		
13:00 13:50	AECOSim Building Designer for Transportation and Transit Projects AECOSim Building Designer is a scalable, multi-discipline building design application that enables BIM workflows to develop and design buildings of any size or complexity from office buildings, to rail stations, to multiple building mega-projects such as airports. Bentley's federated BIM approach allows quick design alternative exploration and adaptive re-use. AECOSim Building Designer also has tools and capabilities for DOT maintenance and support, as well as to manage	Using Civil Cells (Continued)	Moving to OpenRoads Designer - Where to Start During this session we will consider the migration path options for moving to OpenRoads Designer from InRoads, GEOPAK, MXROAD, and PowerCivil SELECTseries 2, 3, and 4 software. Learn what can be done, the minimum that must be done, and what resources and services are available to assist you.	ProjectWise and Civil3D Integration Join us as we provide an overview of how to best optimize ProjectWise Design Integration when using Civil 3D. This class will highlight latest enhancements and best practices when required for Civil 3D for your projects.	The Ribbon: The New Face of the MicroStation CONNECT Edition A fundamental knowledge of a user interface, the basic components, and how it functions is essential in being productive with any software package. This familiarity saves both time and money for an organization by making an application easier to adopt, use, and stay current with. It is for reasons such as these that the MicroStation CONNECT Edition has adopted a ribbon style of interface. This course contains a set of exercises to help you master the use of the Ribbon in the MicroStation CONNECT Edition.	Modeling and Managing Features in 3D Modeling in MicroStation CONNECT Edition (Continued)	Reality Modeling Goes Mainstream: What's New in ContextCapture With ContextCapture, Bentley is making Reality Modeling available to everyone. ContextCapture offers more formats and inputs, combines digital imagery and point-cloud data, and leverages mobile and cloud technology.
	Brenden Roche	Dan Ahern	Ian Rosam	Graham Hirst, Bentley	Ronald Zeike	Karsten Pudziow	Jerard Marsh
14:00 14:50	Rendering with AECOSim Building Designer - Material Part Mapping	QuickStart using OpenRail ConceptStation This course is an introduction to the OpenRail ConceptStation software. In this course you will start by learning how to import data for existing conditions, and then how to create conceptual rail designs that include single & multi-track rail corridors, bridges, crossovers and turnouts, all with overhead electrification. The course will be taught using the OpenRail ConceptStation, CONNECT Edition software.	Moving to OpenRoads Designer - 2 Workspace Development OpenRoads Designer is delivered with a workspace structure designed to be flexible and extendable for agencies, consulting firms, and users large and small. Different organizations have different workspace needs and those needs are frequently different from project to project. The OpenRoads Designer workspace has been reconfigured to meet the needs of production environments while minimizing the need for you to be a configuration variable expert to setup your projects. This session will explain in simple terms how to use the delivered workspace, incorporate agency and local country standards, and extend all of this with your company and project standards.	OpenRoads Designer Volumetrics and Quantities OpenRoads Designer has several techniques to compute volumes and component quantities from a model. During this session we will show how to compute component quantities and volumes. These can be computed and reported for the entire project or broken down into reporting boundaries that meet specific project needs. The reporting boundaries are flexible and can follow staged construction areas, sides of the road, station ranges (like traditional end area volumes) and more.	Developing CAD Standards with MicroStation CONNECT Edition Learn the skills and techniques necessary to manage a MicroStation CONNECT Edition based design environment, with an emphasis on project management and standardization. You will learn how to customize the MicroStation CONNECT Edition working environment and to integrate a variety of resources, both at the project level and the organization level. Finally, you'll learn about a wide variety of useful tools and utilities that further enhance the overall efficiency of your operations.	Working with Object Enablers When working on a design project in MicroStation, it is not uncommon to encounter data that you need to incorporate within the project that is delivered in the form of DWG files. Working with this data with the best possible fidelity, whether it is simply for viewing (i.e. attached as a reference) or for direct editing, is mission critical. This helps to eliminate costly errors and ensure on-time project delivery. When DWG files contain data coming from applications such as AutoCAD Civil 3D, the issue of file fidelity is of even greater importance. Drawings may contain AEC data that does not display properly unless it is handled in the correct manner. If you wish to view this data in MicroStation, incorporating the use of object enablers can help ensure that you are viewing the drawing as the author intended.	Enable Reality Modeling with Your Mobile Device Discover how you can create models of your existing conditions without leaving the project site using Bentley's ContextCapture mobile app. Capture your asset, upload them, and obtain a comprehensive 3D reality model within minutes using the latest cloud technology.
	Karsten Pudziow	Rob Nice	Dan Ahern	Ian Joyce	Karsten Pudziow	Ronald Zeike	Jerard Marsh
15:00					Kaffe och kaka		
15:20 16:10	Starting with GC for BIM - Creating a Building Mass Model (2): TO be Confirmed	QuickStart using OpenRail ConceptStation (Continued)	Under the Surface with Subsurface Utilities Building a drainage model is fast and easy, but a LOT happens under the surface when you click Subsurface Utilities buttons. This presentation digs into how OpenRoads and StormCAD unite to provide a comprehensive drainage and utility solution. What happens when you click Place Node? Place Conduit? What happens when you click Compute? How do you confirm the results you got? Where did those newly designed pipe sizes come from? How do you constrain the design to your needs? Join us as we answer these questions.	Understanding the Power of the Bentley Template Library The template library delivered with OpenRoads Designer includes many advanced features and techniques that you can use directly in your models or that you can incorporate into your own templates and template libraries. Join us as the Bentley experts discuss their techniques and best practices.	Design Work-Sharing Insights Learned from Top Firms Are you looking to enable complete transparency into project status and contractor performance? Join this session and learn how best to configure workflows and states to give your project team and stakeholders valuable project-based insights required to identify potential bottlenecks and improve team performance.	Working with Object Enablers (Continued)	Changing the Display of Elements with Display Rules in MicroStation CONNECT Edition In this course, you learn how to will display existing landscape elements in a different look than how they were drawn. For example in a landscape plan, you have numerous trees and shrubs that have been installed. The cells for trees, shrubs and ground cover need to be isolated, in this case you will need to display just the shrubs and "gray scale" the trees, ground cover, and existing roadway geometry. You will create Display Rules that are applied to a Display Style. Here we have several landscape elements, ground cover, several types that we need to maintain by irrigation and watering. In the design you will need to identify them based on their Item Type Properties, including those that are less than a specific square footage. Also you
	Brenden Roche	Rob Nice	Jonathan Smith	Dan Ahern	Hans Koorneef, Bentley	Ronald Zeike	Karsten Pudziow
Lokal					Kungsholmen 2		
16:10 16:30					Avslutning / Closure		