	Torsdag 8 november						
Lokal	**Room - New York**						
08:30							
09:30 09:35	Kaffe och registrering / Coffee and registration						
09:35 09:45	**Välkomna/Welcome**						Thomas Vincent and Mattias Hemmingsson
09:45 10:40	**Kort presentation av LE34** - Bentley Channel Partner i Sverige						LE34
	KEYNOTE: Going Digital with Bentley Systems' Reality Modeling Solutions Join Bentley's Pascal Martinez to learn how Bentley's Reality Modeling solutions enable new virtual inspection and visual operations of infrastructure assets through the creation of classified 3D models.						Pascal Martinez
10:40 11:30	**KEYNOTE: Bring Dark Data into a Light. New Take on iModels** "What change brought us to this point?" "How is the project affected by this change?" We all want a more efficient way to utilize information we already have. Join us to discover how Bentley Systems is embracing the value of change and the information being collected. You will learn about our iModel 2.0 Cloud Platform and iModelHub, architected from the ground up to manage change, and an evolution in the way model information can be synchronized and shared in infrastructure projects.						Laisvune Valackaite
11:40 12:00	**BUS - Årsmöte**						BUS Styrelse
12:00	Lunch						

Rum	Washington	Atlanta	New York (joint w. Rail)/Milano after lunch	New York	Sydney	Stockholm	Paris
Spår	Lecture - Bygg	Workshop - Civil	Lecture - Civil	Lecture - Rail	Lecture - MicroStation and ProjectWise	Workshop - MicroStation and ProjectWise	Lecture - Reality Modeling
13:00 13:50	**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.	**QuickStart for OpenRail Designer** In this course you will learn how to perform horizontal geometry regression, define turnouts, define geometry for a siding, and model the rail corridor including the siding and a tunnel section.	**Civil/Rail Keynote - What is New in the Latest Product Releases** Join us for a review of what is new with the civil design software including OpenRoads Designer, OpenRail, Geotechnical (gINT), Subsurface Utilities, and MicroStation.		**What's New in ProjectWise** Are you helping your project teams fully exploit ProjectWise? Learn how ProjectWise continues to advance well beyond work-in-progress document management. Catch up on the latest updates and services to connect the entire project team with digital workflows.	**3D Meshes in MicroStation CONNECT Edition** This course is for MicroStation CONNECT users from any discipline, modeling in 3D and using meshes along with solids and surfaces. It covers various methods of Mesh creation such as from a pair of Curves, Contours, Points, Grid etc. Subsequent mesh operations like Trim, Extrude, Boolean Difference (Subtract), Project, Analyse (Measure Volume) etc. are covered. Important aspects of the support/input geometry is also covered, for example location, orientation, direction of the curves used; how to ensure smooth joining of meshes etc.	**Digital Cities Connect and Converge People, Processes, Data, and Technology** Learn how users are taking advantage of new and exciting city planner solutions leveraging the proliferation of reality modeling. Hear how cities are going digital to become intelligent and more efficient in their urban planning to meet urban population growth and city infrastructure challenges.
13:50	Ronald Zeike, Bentley Systems	Rob Nice, Bentley Systems	Ian Rosam, Bentley Systems		Stefan Sigvardsson, Bentley Systems	Alicia Rodriguez, Bentley Systems	Håkan Engman, Bentley Systems
14:00 14:50	**Using Tables in MicroStation CONNECT Edition** In this course, you will learn to place and format a table, then use the Table Tools to format the table as you see fit. Then you will learn to fill in the empty fields manually. You will also learn how to create a table and format it to use it as a Table Seed.	**QuickStart for OpenRail Designer** *Continued*	**Understanding BIM for Civil Designers** You've heard about it. You've asked about it. You've seen it on LinkedIn. A mysterious 3-letter acronym that seems to have permeated our industry over the last decade. B-I-M Just Google it, you'll find a mountain of information on BIM. But after wading through it all, many of us still wonder, 'What does this mean for me?', or 'Can you show me what you're talking about?' Practitioners need to see demonstrable proof of how it plays out in their day-to-day activities. Whether you're a skeptic, a believer, or just confused, join us to discuss BIM from a practical perspective. We'll ask, How does it impact me?, Has my objective changed?, Is it good for me?, Is it bad for me?, and How does this change the game?		**Synchro – the 4D Scheduling and Project Management Software** See how projects are planned, built and managed inside Synchro; which links the 3D BIM deliverables with the activities on the project schedule to create the 4D time dimension. Bentley Systems acquired the leading 4D market solution Synchro in June 2018."	**3D Meshes in MicroStation CONNECT Edition** *Continued*	**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.
15:00	Ronald Zeike, Bentley Systems	Rob Nice, Bentley Systems	Dan Ahern, Bentley Systems		María Protasova, Bentley Systems	Alicia Rodriguez, Bentley Systems	Lucas Gigodot, Bentley Systems
	Kaffe och kaka						
15:20 16:10	**Bentley New(s)** A summary of new features in AECOsim CONNECT Edition Update 4. Plus News from any potential announcements from YII.	**Site Modeling and Non-Corridor Modeling** The intent of this course is to demonstrate how to turn 2D elements into 3D elements by adding profiles and elevations to civil elements that are typically found outside the limits of a roadway corridor (i.e. civil sites, building pads, parking lots, ponds, infield grading, bridge abutment grading, etc.) In this course you are going to learn how to create 3D elements (or features) and Proposed Terrains using fundamental site modeling and non-corridor modeling techniques. We will utilize the vertical geometry tools along with linear templates and the terrain modeling tools throughout this course. In the first part of the course you are going to learn how to grade a cell tower site that is made up of a tower pad, yard and driveway. The second part of the course you will learn how to create an infield pond between corridors.	**Moving to OpenRoads Designer - Setting up Annotation** During this session we will discuss all of the details, tips, and tricks to setup definitions for the new OpenRoads Designer annotation tools.	**Following the Rain: Time Based Simulation of Runoff and Ponding** Learn to model a storm event where rainfall intensity varies with time and evaluate how catchment areas and the conveyance system respond. We'll finish by looking at using a pond to attenuate runoff rates.	**What is Bentley iWare?** An overview of Bentley iWare. See the list of available iware applications, OS and what they can be used for and what kind of license is needed for the different applications. You will also learn about Connect Advisor, and what's in the pipeline.	**Configuring and Using ProjectWise Deliverables Management Service** Did you know you can save time and mitigate risk on your projects by seamlessly integrating your deliverables workflows with your larger ProjectWise connected data environment? Learn how to provision and leverage Deliverables Management across your project teams.	**Create Reality Meshes from Anywhere at Anytime with ContextCapture Cloud Processing Service** Discover how you can create models of existing conditions without leaving the project site using Bentley's ContextCapture Mobile and ContextCapture Console applications. Capture your asset, upload them, and obtain a comprehensive 3D reality model within minutes using the latest cloud technology.
	Brenden Roche, Bentley Systems	Ian Joyce, Bentley Systems	Rob Nice, Bentley Systems	Jonathan Smith, Bentley	Ronald Zeike, Bentley Systems	Martin Engelbrecht, Bentley Systems	Lucas Gigodot, Bentley Systems
16:20 17:10	**Strategies for Tunnel Models Using AECosim Building Designer** A presentation highlighting different methods and approaches top modeling tunnels.	**Site Modeling and Non-Corridor Modeling (cont.)**	**Managing Multiple Scenarios (SELECTseries 4)** 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, visualize the design model, including train animations, for clear communication with project stakeholders.	**OpenRail ConceptStation** 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, visualize the design model, including train animations, for clear communication with project stakeholders.	**Creating a Demolition Plan MicroStation CONNECT Edition** In this course you will learn to modify existing plant floor geometry to create a demolition plan. Using defined graphic standards you will change the presentation of existing geometry, make a brief notation, and create a "Check Plot" for use by facilities management.	**Configuring and Using ProjectWise Deliverables Management Service** *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".
17:10	Brenden Roche, Bentley Systems	Ian Joyce, Bentley Systems	Jonathan Smith, Bentley	Rob Nice, Bentley Systems	Ronald Zeike, Bentley Systems	Martin Engelbrecht, Bentley Systems	Lucas Gigodot, Bentley Systems
17:10 18:30	Mingel (dryck och tilltugg)						
18:30	Middag						

Rum	Washington	Atlanta	Milano	New York	Sydney	Stockholm	Paris
Fredag 9 november							
Spår	Lecture - Bygg	Workshop - Civil	Lecture - Civil	Lecture - Rail (Civil)	Lecture - MicroStation and ProjectWise	Workshop - MicroStation and ProjectWise	Lecture - Reality Modeling
08:00	Kaffe och smörgås						
09:00 / 09:50	**MicroStation CONNECT Edition - Ask the Instructor** Discuss various topics that are important to you in MicroStation CONNECT Edition with Ronald.	**Template Triggers and Switches** Learn how to create templates that use null points with component display rules that act as triggers (or switches) to display and undisplay parts of your template when linear geometry is added as corridor reference elements to a corridor. An example of this is turning off curb and grading components in intersections areas when in intersection matchline element is added as a corridor reference. We will also discuss how to create end conditions that can be used to check for the existence of a right of way feature.	**Moving to OpenRoads Designer - Setting up Drawing Seeds** During this session we will discuss all of the details, tips, and tricks to setup the drawing seeds used by the new OpenRoads Designer cross section and plan sheet tools.	**Adding Value to Rail Projects with OpenRail Designer** Join us to explore how OpenRail Designer extends OpenRoads Designer with rail specific tools including turnout and crossing geometry, regression, cant, 3D rail design, and sleeper modeling. We will also look at workflows to model mainline tracks, yards, and tunnels and hear about the latest software enhancements and plans for the future. You will leave understanding why you want to use OpenRail Designer on your next rail project.	**Advance the Speed and Quality of Your BIM Collaboration** Learn how ProjectWise helps you connect designers, contractors, clients, and stakeholders to identify issues sooner and increase program assurance. Preview new technologies to advance digital collaboration with web-based BIM review and the ability to understand change.	**Getting Started with Parametric Surfaces in MicroStation CONNECT Edition** This course provides a basic knowledge of NURB surfaces and provides knowledge of Parametric Surface extrusion, revolution and lofting techniques while designing a decorative concrete column and a bridge pier.	**Digital Cities Connect and Converge People, Processes, Data, and Technology** Learn how users are taking advantage of new and exciting city planner solutions leveraging the proliferation of reality modeling. Hear how cities are going digital to become intelligent and more efficient in their urban planning to meet urban population growth and city infrastructure challenges.
	Ronald Zeike, Bentley Systems	Rob Nice, Bentley	Ian Joyce, Bentley Systems	Ian Rosam, Bentley Systems	Dan Cutler, Bentley Systems	Alicia Rodriguez, Bentley Systems	Håkan Engman, Bentley Systems
10:00 / 10:50	**Introduction to the Curtain Wall Tool** A look at the new features and tools for Placing and editing Curtain Walls.	**Template Triggers and Switches (cont.)**	**Enhanced Engineering Model Attribution for OpenRoads Designer** Learn how model attribution can be used to assign and harvest engineering attributes throughout your workflow. You will learn how to assign states (existing, proposed, abandoned), attach pay item definitions, asset tags, and more. Then learn to query the attributes to control what is displayed, calculate quantities, create property driven annotation, run reports, or to create tables.	**Rail Signaling overview and Trafikverket Promis.e Apps** Promis.e for 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 demonstrate how this solution can help you work smarter, utilizing the track alignment and overhead line design. You will learn how to connect and integrate schematic wirings with the models. We will finish this session with an overview of Trafikverket's Promis.e Apps, KopplingsSchema and APDL.	**Under the Hood of ProjectWise Office 365 Integration** The new integration between ProjectWise and Office 365 will transform how your projects collaborate. Prepare yourself to guide and facilitate successful adoption by learning how to configure and use specific integrations with Microsoft Flow, SharePoint, and Teams.	**Getting Started with Parametric Surfaces in MicroStation CONNECT Edition** *continued*	**Reality Modeling for Transportation Projects** Leveraging Reality Modeling allowed users of a large-scale bridge and road construction site to monitor and quantify the construction progress resulting in the discovery of major differences in the areas between the design and the actual construction.
	Brenden Roche, Bentley Systems	Rob Nice, Bentley Systems	Dan Ahern, Bentley Systems	Håkan Norling	Dan Cutler, Bentley Systems	Alicia Rodriguez, Bentley Systems	Lucas Gigodot, Bentley Systems
11:00 / 11:50	**Creating Parametric Objects** Learn how to create a parametric object using constrained objects in AECOsim Building Designer.	**Using Civil Cells in OpenRoads Designer** This course is for both new users and users upgrading from previous versions of PowerCivil, Power GEOPAK, MX, and Power InRoads software to use the OpenRoads Technology in SELECTseries 3. 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. You will learn to edit and re-use civil cells that have been placed within a model.	**Updating the Design - What Happens When Things Change?** This session will focus on what happens to OpenRoads data as changes are made throughout the design process. We will start with a completed preliminary design model and then discuss what happens when changes are made to terrain, geometry, templates and corridors. This session will give you a better understanding of how things update based on the rules and relationships that are part of OpenRoads technology.	**Moving to OpenRoads Designer - Understanding Workspace Files and Resources** Do I need Element Templates? How do I change the color of a Feature created by a template? How do I get my models to show textures and materials? If you have these or similar questions, don't miss this session! OpenRoads Designer uses on an assembly of DGNLIB files, resource files, libraries, and configuration variables that determine how the software behaves. During this session we will discuss important aspects of what is stored in these files and libraries.	**Developing Standards with Element Templates in MicroStation CONNECT Edition** Element Templates are named sets of element parameters that can be used to set active element placement parameters. A user selects an element template, which activates the stored settings and can also use them in conjunction with a custom tool. You can apply them to any tool to ensure that elements placed using the tool conform to specific standards.	**Working with ProjectWise Projects and CONNECTED User** This course contains exercises to sign into the CONNECTION Client. You will create a standard WorkSet, register it as a ProjectWise Project in the Bentley Cloud Services and associate the local WorkSet to the ProjectWise Project. You will use the previously defined ProjectWise Project Properties as Text Fields to be placed later as text in our Utility Sheet Border. You will publish a single sheet PDF of your project's Cover Sheet to your Personal Portal, Personal Share. You will also publish a PDF of your project's Cross Section file to your Personal Portal. You will publish an i-model of your project's preliminary pier plan to your personal portal, Personal Share. Then look at sharing your just published PDF and i-models with other team members. And finally acting as the other members of team see what occurs being on the receiving end of a PDF or i-model, shared through a ProjectWise Project.	**Reality Modeling for Industrial Sites** In this presentation, you will learn when and how to combine different realty modeling 3D capturing techniques to create highly-detailed 3D reality meshes on some of the most demanding industrial sites and how to consume those meshes in asset management, inspection and maintenance workflows.
	Brenden Roche, Bentley Systems	Ian Joyce, Bentley Systems	Ian Rosam, Bentley Systems	Dan Ahern, Bentley Systems	Ronald Zeike, Bentley Systems	Alicia Rodriguez, Bentley Systems	Lucas Gigodot, Bentley Systems
12:00	Lunch						
13:00 / 13:50	**Generating a Pile Report** Learn how to generate a pile report with coordinate information.	**Using Civil Cells in OpenRoads Designer (Cont.)**	**Computing Earthwork Volumes with OpenRoads Designer** Earthworks are one of the largest costs to consider for any project. OpenRoads Designer's model (BIM) based approach provides significant flexibility and accuracy in quantity calculations. Come see how the OpenRoads Designer model provides cut, fill, and unsuitable material meshes which are used to report volumes in a format to meet your project requirements. You can report on these 3D volumes with conventional end area volume methods, or compute volumes more accurately with a full prismoid approach directly from the 3d model, or even "slice" up the model to report volumes segregated for staged construction, different areas of the project, or for each plan sheet.	**Introducing Bentley Navigator 10.2** Bentley Navigator and OpenRoads Navigator have been combined and enhanced to become Bentley Navigator 10.2. Join us to explore the capabilities of this powerful new application as well as how it can be used to facilitate a paperless plans workflow.	**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.	**Configuring and Using ProjectWise Issues Resolution Service** Are your projects managing issues manually or within data silos created by expensive third-party software? Learn how to configure ProjectWise Issues Resolution to help your project teams save time, minimize project delays, and maintain a connected data environment.	**ContextCapture** Användarpresentationer med exempel på hur Context Capture har använts
	Brenden Roche, Bentley Systems	Ian Joyce, Bentley Systems	Ian Rosam, Bentley Systems	Dan Ahern, Bentley Systems	Ronald Zeike, Bentley Systems	Dan Cutler, Bentley Systems	James Manfield, Sweco
14:00 / 14:50	**Webbbaserad visualisering för bättre kommunikation** Presentera samhällsbyggnad och stora projekt på internet med nya OpenCities Planner som ingår i Bentley portfölj av lösningar efter att svenska företaget Agency9 köpts. OpenCities Planner (tidigare CityPlanner) är helt webbaserat och används av ett 70-tal kunder. Visualisera enkelt Punktmoln, reality mesh, 3D objekt och oändligt stora terräng modeller.	**QuickStart Using OpenRoads ConceptStation** This course is an introduction to the OpenRoads ConceptStation software. In this course you will learn how to import data for existing conditions, and how to create conceptual roadway designs that include road corridors and their interactions with intersections, bridges and ramps, including lighting, guardrail and street markings.	**The Value of Reality Modeling** This presentation covers how a design engineer can quickly create a reality model to use during the design process. From snapping a few photos in the field with a cell phone to a 3D model you can use in the design in a few easy steps using ContextCapture.	**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 a Bentley expert to learn their techniques and best practices.	**Creating Quantity Data Using Item Types in MicroStation CONNECT Edition** In this course, you will learn how create an Item Type for a Fence line, create Item Properties, set default values and attach the newly created Item Type to existing Fence Line Geometry. This will be used in a later course for reporting and quantifying the fence line.	**Configuring Your ProjectWise Project (Connection Center/Cloud service)** Did you know that ProjectWise Projects are the doorway to ProjectWise cloud services for digital collaboration? Learn how to create ProjectWise Projects in the Connection Center, link them to Work Areas in Design Integration, manage participants, and enable services.	**Leveraging Reality Modeling in Civil Design** Geared towards students and educators, civil engineers doing site, road, and rail design can benefit greatly from applying new techniques in photogrammetry to create 3D models of real world conditions that can be seamlessly integrated into civil engineering workflows.
	Håkan Engman, Bentley Systems	Rob Nice, Bentley Systems	Ian Rosam, Bentley Systems	Dan Ahern, Bentley Systems	Ronald Zeike, Bentley Systems	Martin Engelbrecht, Bentley Systems	Lucas Gigodot, Bentley Systems
15:00	Kaffe och kaka						
15:20 / 16:10		**QuickStart Using OpenRoads ConceptStation (cont.)**	**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.	**Adding Value to Rail Projects with OpenRail Designer** Join us to explore how OpenRail Designer extends OpenRoads Designer with rail specific tools including turnout and crossing geometry, regression, cant, 3D rail design, and sleeper modeling. We will also look at workflows to model mainline tracks, yards, and tunnels and hear about the latest software enhancements and plans for the future. You will leave understanding why you want to use OpenRail Designer on your next rail project.	**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 have been given data that was created on the correct level and it displays correctly for the specific group that created it, however we need it to display differently in our construction plan.	**Configuring Your Project for Success (ProjectWise Administration)** Increase the value you deliver to your projects by understanding the power of a fully configured ProjectWise Work Area. Learn how resource definitions, permissions, workflows, standards, and more promote increased collaboration, efficiency, and consistency.	**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.
		Rob Nice, Bentley Systems	Ian Joyce, Bentley Systems	Ian Rosam, Bentley Systems	Ronald Zeike, Bentley Systems	Martin Engelbrecht, Bentley Systems	Lucas Gigodot, Bentley Systems
Lokal							
16:10 / 16:30	Avslutning / Closure						