

Torsdag 13 november Dag 1(2)

New York								
08:30	Kaffe och registrering / Coffee and registration							
09:30	Välkomna/Welcome							Thomas Vincent
09:35	Corporate update and future directions for Bentley Systems – globally and in Sweden							Mattias Hemmingsson och George Church Bentley Systems
10:30	Platform Keynote							Chris Bober Bentley Systems
11:30	BUS - Årsmöte							BUS Styrelse
12:00	Lunch							
Lokal	Paris	Atlanta	Milano	New York	Sydney	Hong Kong	Washington	Stockholm
Spår	Bygg	Civil Workshop	Civil	Rail	Platform	Geospatial	Plant/Mining	Workshop
13:00 13:50	What's up next? Come see the new features, updates, and enhancements delivered in the SELECTseries 6 Release of AECOSim Building Designer.	QuickStart for Subsurface Utility Modeling This hands-on training guides you thru the Subsurface Utility Engineering tools used to create 3D models of storm, sanitary and other underground utility networks. Topics covered include modeling of storm water networks and creating models of utilities from survey data.	C1 - Bentley Civil Keynote (Lokal New York)		Global Worksharing The Engineering World is becoming more connected every day. From work centers in Asia and China to collaboration between globally diverse offices; LEARN "Best Practices" for working over the WAN, including the use of iCS as a tool for keeping the project files up to date. Discuss the challenges of today's global design teams with your peers.	Bentley Descartes SS5 New and old functionality including both point clouds and scaleable terrain models as well as draping of aerial photo images.	Plant and Mining keynote Bentley offer a complete set of applications for the entire Plant life cycle, both for EPS's and Owner/Operators. We have also recently released new Mining applications. This presentation will show you the "big" picture. The details will follow in the presentations the rest of this day and tomorrow.	Workshop: AccuDraw Let's play with MicroStation and AccuDraw. Learn the shortcuts that are useful when modeling in 3D
	Karsten Pudziow, Bentley	Jonathan Smith / Rob Nice (Assist) / Ernst VanBaar (Assist), Bentley	Ian Rosam, Bentley		Vickie Hewitt	Alicia Rodriguez, Bentley	Inge Olerud, Bentley	Tine Lai Andersen, Bentley
14:00 14:50	Vico Office Presentation dav Vico Office där data bla kan hämtas direkt från AECOSIM Designer och användas för 4D/5D	cont	Discover Bentley and Trimble integrated workflow for Transportation design and Construction Explore the streamline process in taking your Bentley 3D OpenRoads models directly to Trimble Business Center – HCE. This process will show how business data and design integrity of your 3D model is sent out for bidding and construction. Bentley's new Infrastructure Consensus Model (ICM) will reduce errors, save time, and ultimately saves money on your fast tracked projects. While allowing the contractor to use your design instead of recreating it from scratch. This technology will change how Engineers and Contractors will provide owners and operators with more timely and cost effective infrastructure improvements.		Information Modeling in MicroStation The new MicroStation will enable your organization to design with more intelligence and use that information to make better informed decisions and produce more accurate deliverables. In this lecture you will learn how to make your project data more valuable with object properties and how to use that information to create accurate drawings, reports, and 3D deliverables.	Latest in Bentley Map Within a Geospatial Project Workflow LEARN about the latest improvements introduced within Bentley Map SELECT Series 4 including the new Cartographic Thematic Representation, the new CityGML texture as well as Oracle b-spline curve support.	Plant Lifecycle - Bentley's solutions for integrated Process design Bentley OpenPlant is our flagship product for Plant design, here are modules for both 2D and 3D design, like Open Plant PowerPID, OpenPlant Modeller as well as the just released OpenPlant Orthographics Manager. OpenPlant can be used both in file based mode and in component mode, where ProjectWise and ModelServer are used to manage the components in use by different users. Our Plant Design solutions work also closely with our Structural and Electrical applications. And we have still users on PlantSpace, running on top of MicroStation and AutoPlant, sunning on top of AutoCAD.	Workshop: 3D tips & Tricks In this workshop you will get various tips and tricks when working in MicroStation 3D.
	Patrik Mälarholm, Vico Software	Jonathan Smith / Rob Nice (Assist) / Ernst VanBaar (Assist), Bentley	Ian Rosam & Joe Waxmonsky, Bentley		Chris Bober, Bentley	David Shearon, Bentley	Magnus Cullberg, Bentley	Tine Lai Andersen, Bentley
15:00	Kaffe och kaka / Coffe and Cake							
15:20 16:10	I-Models and Bentley Navigator. This course shows the "Redline" Workflow with a Building Model and gives an short introduction to Clash detection and Schedule Simulation.	Defining Template Side Slopes This hands-on training teaches how to create and make major modifications to template side slopes (end conditions). This training focuses on the side slopes connecting the template hinge to the tie down point. You will learn how to create end conditions with multiple cut and fill slope solutions, cut slopes with a ditch adjacent to the hinge, walls, and a varying-slope clear zone. You should complete the Using and Editing Templates course before attending this course.	Best Practice: 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.	Rail (Bentley Rail working with OpenRoads adopters) SELECTseries 2 Maintenance Release. Future OpenRoads	ProjectWise Design Integration for the MicroStation User Learn about the integrated capabilities with ProjectWise. Topics include integrated MicroStation commands, Attribute Exchange and reference file management.	SiteOps SITEOPS enables civil engineering professionals, real estate developers, and land planners to: - perform site configuration simulations that fully assess millions of layout, parking, grading, and drainage options for a site within hours instead of spending months evaluating a handful of options, - produce preliminary cost estimates and conceptual designs faster, - optimize site designs through advanced optioneering, and - minimize overall costs while ensuring engineering quality.	Mining - Introduction to the new products This session will allow attendees to get the latest and greatest news about Bentley's initiatives in the mining industry. The session will describe the 2 initiatives that took place in the past 2 years and what the outcome is in terms of new products release in the MineCycle brand. A description of our understanding of the industry will also be used as an introduction to the roadmap for the mining products.	Bentley Descartes and Point Cloud Processing The Bentley Descartes and Point Cloud Processing is a hands-on workshop to teach users the methods and workflows for importing, editing and manipulating point-cloud data for use with Bentley Civil products. After this workshop you will be able to: 1) Know how to display point clouds with different styles, 2) Know how to toggle ON/Off classes with in views, 3) Know how to create Clips and Sections and 4) Extract Features.
	Jonas Wahlberg, Bentley	Ernst VanBaar / Jonathan Smith (Assist) / Rob Nice (assist), Bentley	Joe Waxmonsky, Bentley	Ian Rosam, Bentley	Vickie Hewitt, Bentley	Moderator: Stefan Sigvardsson, Bentley Presenter: David Settlemeyer	Nicolas Loubier, Bentley	Alicia Rodriguez, Bentley
16:20 17:10	Space planner introduction This lecture discusses different scenarios how to create and navigate Space data. Gather and track information about spaces and their attributes, such as room finishes, paint, wallpaper carpet, ceiling material, the number of occupants, the type of equipment and other building assets.	CW2 - Continued	Best Practice: Geometry This presentation provides best practices for working with OpenRoads geometry. Learn why design intent is important, when and how to use Civil AccuDraw, how to control the rules as well as import / export native geometry.	Rail Technical Presentation Edit turnout libraries QA on DTM's Geometry XML reporting Light rail	Tips & Tricks in Microstation	Benefits of Bentley Geo Web Publisher and Upcoming Web Map Publishing Platform Take a tour of Bentley Geo Web Publisher and the benefits of the upcoming Web Map Publishing platform.	Plant Lifecycle - Bentley's solutions for integrated Electrical design A discussion on how Bentley's electrical solutions integrate with each other and other Plant tools to reduce design time, increase productivity and accuracy	Bentley Descartes and Point Cloud Processing Continue
	Karsten Pudziow, Bentley	Ernst VanBaar / Jonathan Smith (Assist) / Joe Waxmonsky (assist), Bentley	Ian Rosam, Bentley	Rob Nice, Bentley	Tine Lai Andersen, Bentley	David Shearon, Bentley	Rick Black, Bentley	Alicia Rodriguez, Bentley
18:30	Middag / Dinner							

Fredag 14 november Dag 2(2)

Lokal	Paris	Atlanta	Milano	New York	Sydney	London	Washington	Stockholm
Spår	Bygg	Civil Workshop	Civil	Rail	Plattform	Geospatial	Plant/Mining	Workshop
08:00	Kaffe och smörgås							
09:00	Why Hypermodels ? What Benefit Do You Get From the Building Side ? In this lecture you will learn the benefit of using hypermodels in building projects.	QuickStart: OpenRoads Technology Corridor and Intersection Modeling This hands-on training teaches how to model the roadway corridor and intersection using an existing two lane urban typical section with curb and cutter and sidewalk. The pavement width is controlled by edge of pavement geometry. A T intersection complete with curb returns and side slopes is modeled using a civil cell.	Why should I Upgrade to the OpenRoads Technology (SELECTseries 3) Software? Come see how OpenRoads technology advances what's possible in road design, construction, and operations through the use of immersive modeling, design-time visualization, design intent capture and persistence, information mobility across engineering disciplines and project phases, and construction-driven engineering.	Bentleyprogramvaror inom bro och anläggningskonstruktion i praktiken. Tyréns presenterar hur man modellerade en bro åt en dansk konsult i MicroStation. Grontmij presenterar hur man använt Bentleyprodukter i Citybanan och i Förfärd Stockholm.	High Performance Project Delivery with ProjectWise Roadmap and technology update on ProjectWise, Bentley's project collaboration and content management platform	Get to the Point with Pointools In this session you will learn about the powerful and intuitive pre-processing of point clouds that Bentley Pointools has to offer. See how easy animations are created. Discover how unnecessary points are removed and incorrect point colors are corrected. Take a look back at comparing point clouds from different times. Finally, experience how helpful clash detection of objects and point clouds can be.	Plant Lifecycle - Bentley's solutions for integrated Structural design Bentley solutions for Structural design is a long list of highly specialized well known products, where STAAD.Pro, AutoPIPE and AutoPIPE Wessel are the most commonly used closed to our Plant Design solutions. But there are also other relevant products like ProStructures, also known as ProSteel and ProConcrete, and RAM. We have also several products for design of floating structures.	Workshop: 3D Geometry Creation Tools This session lets you master many of the workflows used to produce basic 3D models comprised of Solids, Surfaces and Meshes. Discover basic 3D navigation and create 2D plans from those models. Develop your 3D skills by creating a basic pier cap, foundation and other components to create a preliminary bridge design. You will develop 2d plan sets and their details from the 3D model. You will place callouts on the 3D model making it more reliable, effective, and valuable providing a clearer picture of the design
	Karsten Pudziow, Bentley	Rob Nice / Jonathan Smith (Assist) / Ian Rosam (Assist), Bentley	Joe Waxmonsky, Bentley	Björn Israelsson, Tyréns, och Mikael Magnusson, Grontmij	Vickie Hewitt	Alicia Rodriguez, Bentley	Phil Senior, Bentley	Tine Lai Andersen, Bentley
10:00	Best Practise: Rendering with AecoSIM Building Designer This session teaches participants how to leverage the full power of AECOSim Building Designer's rendering capability to create a workflow that efficiently uses the building information model for rendering with the help of workspace configurations and specific rendering techniques.	cont	Best Practice: Corridor Modeling Getting the most out of your corridor design is key for producing the Civil Model. This presentation will provide the best practices to use Corridor Modeling successfully in the OpenRoads environment. The highlights will range from the fundamentals of this new technology leading into tips and tricks, and other advance topics that will put you comfortably into the 3d Realm of Design.	Why Hypermodels ? What Benefit Do You Get From the Civil Side ? Hypermodels provide the ability to display the relationship between 2D documentation and the 3D model, saving time and reduces costly changes by verifying that models are adequately documented to ensure proper construction. A hypermodel is a fusion of the 2D documentation with the 3D model providing a visual display of what parts of the model are being documented. This allows you to see the construction documents and other information in the context of the 3D model. Callouts allow for quick and easy navigation between the models that make up the civil design project. This lecture will focus on the benefits of working with hypermodels in your civil design project.	BIM leveranser i Förfärd Stockholm Presentation av hur Trafikverkets BIM-strategi tillämpas i Förfärd Stockholm och hur Trafikverkets ProjectWise används vid projektering och i leveranser av bygghandlingar. Genomgång även av hur data levereras från ProjectWise till Trafikverkets databas Chaos.	Bentley Descartes and Image Processing The Bentley Descartes and Image Processing is a hands-on workshop to teach users the methods and workflows for attaching, editing and manipulating raster data for use with Bentley Civil products. After this workshop you will be able to: 1) Understand Raster Formats, 2) Displaying and Working with Images with the Raster Manager, 3) Analyze Images and 4) Do simple Geocoordination.	Plant Lifecycle - Bentley's solutions for Construction Management Construction document management and control. 4D construction modelling and reporting tools. Complete work package lifecycle management for: Engineering, Construction, Installation, Test work packages with off-line support. Business process management and configurable workflow. Project Work Package Service & web based UI. Customizable reports and dashboards. New CAD Adapters including SP3D. Status visualizations on the iPad.	cont
10:50	Karsten Pudziow, Bentley	Rob Nice / Jonathan Smith (Assist) / Ian Rosam (Assist), Bentley	Joe Waxmonsky, Bentley	Ernst van Baar, Bentley	Thomas Vincent, ÅF	Alicia Rodriguez, Bentley	Steve Rice, Bentley	
11:00	Fördjupning i några av verktygen i AecoSIM Building Designer I den här presentationen går vi igenom några av nyheterna i SS5 som RFA wizard och rapport verktygen samt fördjupar oss i Railing tool, Steel deck + några till.	Creating and Editing Alignment Geometry This hands-on training teaches how to create and modify alignment geometry. You will learn to work with the OpenRoads Technology heads-up display to create horizontal and vertical geometry and validate the geometry for compliance with appropriate design standards. You will also learn how to modify alignment geometry by creating an alternative section in the middle of the alignment and extending an alignment. Throughout the training you will learn to use the geometry rules the OpenRoads Technology uses to capture your design intent. You should complete the QuickStart for Roadway Designers using OpenRoads Technologies course before attending this course.	Best Practice: Creating Civil Cells Civil cells are a new and powerful capability of the OpenRoads Technology. This presentation shares best practices to help you create efficient and effective civil cells.	Stockholms stadsbyggnadskontor visar hur 3D-data används i verksamheten och hur dessa data används i interna och externa projekt	Projecwise Connect - ProjectWise Online managed service Are Managed Services Right For You? Things You Should Know About MANAGEServices	OBS! Föreläsning flyttad till lokal New York!	Mining Planning - MineCycle Designer and MineCycle Survey presentation Please join us in this session to get an understanding of two new mining products : MineCycle Survey for survey operation in both underground and open pit mines, as well as MineCycle Designer , focused on underground mine for mine planning, including scheduling and evaluation at the same time.	Workshop: Using the Dynamic Views In this workshop you will look at an example workflow of how to document and explain a 3D design by creating dynamic plan, section, elevation, and detail views. Even if you have never worked in 3D models in MicroStation before, you can do the exercises in this module.
11:50	Jonas Wahlberg, Bentley	Ernst VanBaar /Joe Waxmonsky (Assist) / Rob Nice (Assist), Bentley	Ian Rosam, Bentley	Fanny Nordqvist Darell och Katarina Persson, Stockholm Stad	Vickie Hewitt		Nicolas Loubier	Tine Lai Andersen, Bentley
12:00	Lunch							
13:00	Best Practise: Creating a succesful BIM model Getting the most out of your BIM model requires not only organizing the model properly, but also the project team. This presentation will provide the best practices for efficiently setting up the BIM model and the project team, as well as lessons learned from multiple BIM implementations.	CW4 - Continued	Introduction to Subsurface Utilities Engineering Urban road and highway projects have a high potential of utility conflicts that must be addressed. This session introduces Bentley's new Subsurface Utility Engineering software for consolidating and managing buried utilities in a single model, ultimately decreasing design projects uncertainty.	Rail Electrical Bentley Rail Electrical är ett verktyg för informationsmodellering av järnvägsanläggningen. Vi kommer att visa hur man utgår från spår och kontaktledning bygger vi vidare med 3D-objekt för övriga järnvägstekniska discipliner.	I-models and Bentley Navigator This course shows the "Redline" Workflow with a Building Model and gives an short introduction to Clash detection and Schedule Simulation.	Skapa och visualisera markmodeller med Display Styles Den här presentationen blir en spännande blandning av tips och tricks för att skapa och visualisera markmodeller i MicroStation. Vi tittar på olika sätt att skapa mesh och terrängmodeller och hur man kan visualisera och presentera dessa genom att använda Display Styles, Element Templates och 3D-PDF. Display Styles kan användas för att visa höjd, lutning och exponering. Element Templates styr höjdukurvor och annotering och med 3D-PDF kan slutresultatet kommuniceras till alla som har Acrobat Reader.	Mining - MineCycle Material Handling Please join us in this session for a presentation of Bentley new Material Handling planning product. This multi disciplinary product is the result of 2 years of hard work between Bentley and industry leaders and is dedicated to making the planning phases of site layout easy to do and enabling optionneering at theses early phase of a project. Come see how terrain can be created in no time, how pads, chutes and conveyors can easily be placed in 3d and how reports can be generated	cont. -
13:50	Karsten Pudziow	Ernst VanBaar / Joe Waxmonsky (Assist) / Rob Nice (Assist), Bentley	Jonathan Smith	Håkan Norling	Jonas Wahlberg, Bentley	Krister Surell, Surell Consulting	Nicolas Loubier, Bentley	Tine Lai Andersen, Bentley
14:00	Focus Devices in Hybrid Data Supporting Informed Action on the Jobsite Today's models are hybridized combinations of various media types. This brings greater richness and complexity. To remain meaningful, and in support of informed action on the jobsite, a whole range of different kinds of focusing devices within hybrids are proposed, that show people where to look, what matters, and what to understand and do. The development of focus within hybrid data may contribute to the future of AEC information systems. Further, for owner operators, information systems that accumulate both data and focus may lead to qualitative improvement in open-domain query of asset information systems.	Connecting corridors This hands-on training teaches how to model a ramp connected to a mainline alignment. You will learn to define the vertical geometry for the ramp for a smooth transition from the mainline, apply superelevation to the ramp, model the ramp, and clip where the ramp and mainline models overlap.	Best Practice: Civil Model to Plan Set This presentation discusses best practices for documenting the civil model with cross section sheets, earthwork quantities, and reports and how to save the model back to InRoads, GEOPAK, and MXROAD formats for use by traditional tools and workflows.	Citybanan Odenplan SWECO berättar hur projektet med Citybanan på Odenplan utvecklades till ett 3D-projekt med flera discipliner inblandade. En beskrivning om samordningsmöten och 3d-metodik	Element Templates I den här presentationen går vi igenom hur vi sätter upp Element Templates och visar hur verkningsfulla de är.	Nynäs hamns skateboardpark - ett komplett 3D-projekt I presentationen visas ett fullständigt arbetsflöde från laserskanning via modellering, till export av styrdata till schaktmaskinerna och presentationer i 3D-PDF.	SUDA. Next generation for Storm and Sanitary Drainage SUDA is Bentley's next generation software for S&S design and analysis to provide 3D layout, with peak flow design and dynamic wave analysis. This session will show the software, which is scheduled for release next spring, for the first time in Europe.	Workshop: 3D Geometry Creation Tools This session lets you master many of the workflows used to produce basic 3D models comprised of Solids, Surfaces and Meshes. Discover basic 3D navigation and create 2D plans from those models. Develop your 3D skills by creating a basic pier cap, foundation and other components to create a preliminary bridge design. You will develop 2d plan sets and their details from the 3D model. You will place callouts on the 3D model making it more reliable, effective, and valuable providing a clearer picture of the design
14:50	Rob Snyder, Bentley	Rob Nice / Ernst VanBaar (Assist) / Ian Rosam (Assist), Bentley	Joe Waxmonsky, Bentley	Jan-Erik Kontio och Helge Petersen, SWECO	Jonas Wahlberg, Bentley	Tom Lillhannus, Nynäs hamns kommun	Jonathan Smith, Bentley	Tine Lai Andersen, Bentley
15:00	Kaffe och kaka							
15:20		CW5 - Continued	Best Practice: Design Time Visualization This presentation explores best practices for leveraging OpenRoads Technologies comprehensive civil model to rapidly and realistically view the design. Validate the engineering by finding errors and omissions early in the design process, check for clash detections, or use MicroStation to create animated drive through of the model.	promis-e-baserade verktyg för järnväg promis-e är Bentleys el-applikation. Vi kommer visa Kopplingschema och APDL, som utvecklas för promis-e. Vi kommer även att visa delar av en signalösning från Australien på promis-e.	Customizing the Dynamic Views Workflow Hur ändrar man en Dynamic View och skapar en verkningsfull standard? Kom och se med egna ögon!	Maximizing Bentley Map See how to Implement Standards Using Bentley Map and get on Board with SDSFIE, NCS and US Army. Take a look at how Bentley is implementing standards using Bentley Map and utilizing existing data to produce Map Deliverables. See how to populate Engineering Accurate data into an existing SQL or Oracle special database.		cont. -
16:10		Rob Nice / Ernst VanBaar (Assist) / Joe Waxmonsky (Assist), Bentley	Ian Rosam, Bentley	Håkan Norling, Bentley	Jonas Wahlberg, Bentley	David Shearon, Bentley		Tine Lai Andersen, Bentley
Lokal	New York							
16:10	Avslutning / Closure							
16:30								