

| Thursday 09 november 2023 | | | | | | |
|-----------------------------|--|--|--|--|--|-----------------------------|
| 08.00 | Registration and Coffee | | | | | 08.00 |
| Room | NEW YORK | | | | | Room |
| 09.00 | Welcome Elin Kågas Ramström, Chair Bentley User Group SE | | | | | 09.00 |
| 09.15 | Nabil Abou-Rahme, Chief Research Officer, <i>Join Bentley's Global Research Officer Nabil Abou-Rahme for a keynote about how Bentley Systems is adapting in the new age of artificial intelligence.</i> | | | | | 09.15 |
| 10.10 | Q&A Bentley Paus | | | | | 10.10 |
| 10.30 | Ian Rosam, Director, Product Management, Bentley Systems | | | | | 10.30 |
| 11.10 | Mike Clarke & Cara Seaton, Cadventure | | | | | 11.10 |
| 11.35 | Anders Gundhe & Andreas Kull, Sweco <i>Implementation of ProjectWise at division Transport Infrastructure</i> | | | | | 11.35 |
| 12.00 | LUNCH | | | | | 12.00 |
| Special interest group Room | Building Paris | Civil Atlanta | Rail New York | Reality modeling & Digital Twins Sydney | Platforms (Microstation & ProjectWise) Milano Stockholm | Special interest group Room |
| 13.10 | What is new in OpenBuildings Designer CONNECT Edition? This seminar will explore the enhanced tools, and exciting new capabilities that will help you improve your interoperability, collaboration, personal productivity, and information sharing. New tools and capabilities will be shown for the Architectural, Structural Mechanical, Electrical disciplines as well as OpenBuildings Designer Energy Simulator, new Platform Rendering and Parametric modeling technology. | Whats new in OpenRoads Designer Overview of todays functionality and roadmap ahead | OpenRail Designer LowVoltage features Presentation from Bentley | What's new iTwin Presentation from Bentley | Printing and Publishing The final phase in completing a design project is producing the construction document set. It can be as simple as fencing an area in a design model and printing what is seen within the view window using the default settings or may include the use of sheet models, pen tables and print styles. Drawing sheets may be printed individually or in a "batch" mode using Print Organizer. This workbook contains exercises intended to familiarize a new MicroStation user with the basic printing capabilities found in the MicroStation CONNECT Edition. | 13.10 |
| Room | Brenden Roche, Bentley Paris | Ian Rosam / Dan Ahern, Bentley Atlanta | Håkan Norling, Bentley New York | Dan Cutler, Bentley Sydney | Ronald Zeike, Bentley Milano Stockholm | Room |
| 14.10 | OpenBuildings Designer – Information Modeling in 3D of a Transit Station This is an introduction and overview of OpenBuildings Designer and its robust 3D modeling Workflows to quickly model a Transit Station while reviewing discipline specific Drawings and Schedules as the modeling progresses. •Exploring the 3D Modeling Environment by creating Building Grids, using Floor Planes, and Working with Site Models (Geo-Referencing) •Working with Site Files – Geo-Referencing Civil Models •Modeling Structural ProSteel (New) Elements Columns, Beams, Joists, Concrete Piers, and Footers. •Modeling and Modifying Architectural Elements such Walls, Doors, Windows and Curtain Wall. •Placing Interior objects such as Building and Transit related Spaces, Furniture, Fixtures, and Equipment (FF&E) •Advanced modeling capabilities to create the Transit Station Platform Canopy with Tapered Columns and Beams, Steel Plates, Purlins and custom glass shapes. | OpenRoads Designer to SYNCHRO Construction We have created some great designs in OpenRoads Designer. Now, take the design to the field with SYNCHRO; whether it's a 2D, 3D, or hybrid deliverable. In this session, you will learn how the field data is collected, the project tasks and schedule are managed, and how issues may be sent back to design for review in a signal system. | Introducing OpenRail Overhead Line Designer OpenRail Overhead Line Designer is the first comprehensive contact line design modeling application for rail electrification that delivers BIM compatible models and supports the creation of Digital Twins. Co-developed with Siemens Mobility, it includes all the functionality of OpenRail Designer with the additional detailed design and analysis capabilities of Siemens Sicat Master. | Advanced Reality Modeling to Creating Digital Twins of Complex Sites In this presentation, you will learn when and how to combine different reality 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. | Setting up a Project in ProjectWise (User Presentation) Examples and discussions about setting up a new project in ProjectWise. Define rules for files, workflows, integrations. Exempel och tips för att starta och bygga upp nya projekt och datakällor i ProjectWise. | 14.10 |
| Room | Arek Barszcz, Bentley Paris | Bentley Atlanta | Håkan Norling, Bentley New York | Lucas Gigodot, Bentley Sydney | Ramboll and WSP Milano Stockholm | Room |
| 15.00 | Fika (Coffee break) | | | | | 15.00 |
| 15.20 | BIM Enlivened – OpenBuildings Designer & LumenRT Pro Enrich your OpenBuildings 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. With LumenRT Pro you can easily share interactive, immersive 3D presentations with any stakeholder. | Futureproofing Your Investment for Delivering Today's Plans and Tomorrows Digital Models Communicating the design is a significant part of any project. OpenRoads Designer's capabilities and automation provide efficient means to create and manage construction drawings for today's plans as well as tomorrow's digital model deliverables. Join us as we share the latest advancements and best practices to create and manage construction documents. Learn how best to organize data, customize naming, automate annotation, add detailed labeling, ensuring consistency across sheets, share digital design data and more. | Working Together: OpenRoads Designer, ProjectWise and iTwin Integration. In this session, we are going to take a look at a sample highway project that several Bentley colleagues have been developing. We are going to discuss how ProjectWise, OpenRoads Designer, OpenBridge Designer and iTwin technology can be integrated together. | Reality Modeling Data Capture Best Practices Learn photogrammetric principle and limitations and discover data capture requirements and bestpractices for generating high-fidelity 3D reality models leveraging ContextCapture, Bentley's reality modeling software. | ProjectWise: Building a basic template Mike demonstrate how to build a good template on projectwise to reduce technical issues. | 15.20 |
| Room | Brenden Roche, Bentley Paris | Dan Ahern, Bentley Atlanta | Ian Rosam, Bentley New York | Lucas Gigodot, Bentley Sydney | Mike Clark, Cadventure Milano Stockholm | Room |
| 16.10 | Easily Create and Manage Building Spaces and Assets with OpenBuildings Designer This session will cover how OpenBuildings Designer can enable you to create, manage, report, track, and import data on spaces, furniture, fixtures, and equipment (FF&E). OpenBuildings Designer has a new Space Program Manager tool that allows space planners and architects to list the building owner's requirements for the number and size of each type of room in one place, then use that list as a checklist as they lay out the building spaces. We explore how to import RFA files, create Compound Cells and the new Parametric Cells that can be linked to the Datagroup system for schedules and reporting. We will also cover working with other file formats such as Sketchup, RFA, RVT, IFC, and exporting to COBie. | Meshin Around with OpenRoads Designer This presentation will cover the many nuances with computing quantities and calculating earthwork such as unsuitable materials, multiple substrata, and complex volumes with meshes. | Digital Workflows For Track Maintenance Workflows With OpenRail Designer See and learn how digital surveys (point clouds/lidar) can be utilized to support track design and maintenance BIM workflows. This session will also cover advances with multi element regression and geometry connector that provide benefits to address track designs and upgrades, including typical yard vertical design and standard deliverable requirements. | iTwin Platform - A overview and it's power A Lecuter about the iTwin Platform and its capabilities | ProjectWise Support - Tips and Tricks for troubleshooting (User presentation) Sharing experience and tips for troubleshooting and user support regarding using ProjectWise Explorer and ProjectWise Administrator. Basic troubleshooting steps and common user errors. Erfarenhetsåterföring och tips för support gällande ProjectWise Explorer och ProjectWise administrator. Grundläggande felsökning och vanliga användarfel. | 16.10 |
| Room | Brenden Roche, Bentley Paris | Kevin Jackson, Bentley Atlanta | Jean-Pierre Lavel Noel, Bentley New York | Dan Cutler, Bentley Sydney | Jens Gothlander, WSP Milano Stockholm | Room |
| 17.00 | Mingle & Drinks @ Piazzan | | | | | 17.00 |
| 18.30 | Dinnes @ WTC Restaurant | | | | | 18.30 |

| Friday 10 november 2023 | | | | | | | |
|-------------------------|--|---|---|--|---|--|------------------------|
| Special interest group | Building | Civil | Rail | Reality modeling & Digital Twins | Platforms (Microstation & ProjectWise) | | Special interest group |
| 08.30 | Coffee | | | | | | 08.30 |
| Room | Paris | Atlanta | New York | Sydney | Milano | Stockholm | Room |
| 09.10 | OpenBuildings Designer with iTwin Services Cloud Adoption •Quick overview and industry trend •Bentley cloud services – user adoption Bentley Cloud Services •Quick overview •OBD+ iTwin - Benefits OpenBuildings Designer + Bentley Cloud Services •Accelerate Desktop Productivity •Improve coordination for Design/Engineering/Construction workflows •Leverage iTwins for Advanced Services | Sheet Seed Creation Advanced Tips and Tricks A lot has changed over the past few years regarding the creation of Sheet Seed Definition DGNLibs. In this presentation we will look at some of the new techniques for sheet seed creation. One area of focus will be placing multiple sheet seed definitions into the same DGNLib. This will speed up workspace load times and increase speeds switching between files. Topics covered: •Putting all sheet seed definitions into a single DGNLib •Utilizing a backup system through the creation process •Changing the reference attachment view settings •Renaming •Removing and replacing an invalid sheet seed definition •Changing the assigned annotation group •Important discussion on Units of Resolution •Additional tips | Geometry Rules and Relationships Understanding Geometry parent/child relationships, how to build geometry in such a way that it maximizes efficiency when dealing with design changes. | Civil Workflows with Digital Twins This presentation will look at current industry trends with digital project delivery, digital twins, and consider the implications for model validation processes with the new digital deliverables. | ERTMS Cellbibliotek (User Presentation) ERTMS Cellbibliotek & kopping till ProjectWise(User Presentation) | Library Management and Configuration in MicroStation This session will cover various aspects of configuration including: - The Manage Configuration Utility introduced in Update 17. - Introducing a configuration template for MicroStation that is intended to simplify and standardise the essentials of a configuration. - Enabling drag and drop for library resources. - Useful tools for managing MicroStation resources | 09.10 |
| | Brenden Roche, Bentley | Dan Ahern, Bentley | Kevin Jackson, Bentley | Ian Rosam, Bentley | Carl-Olof 'Olle' Ekenberg, SYSTRA | Ronald Zeike, Bentley | |
| Room | Paris | Atlanta | New York | Sydney | Milano | Stockholm | Room |
| 10.10 | Introduction to OpenBuildings Designer Energy Simulator OpenBuildings Designer Energy Simulator is an energy forecasting application utilizing steady state calculations of building energy loads to design mechanical systems and hourly simulation tools to predict performance to inform design approach. Energy Simulator delivered with OpenBuildings Designer CONNECT Edition and requires no additional license. Energy Simulator utilizes industry leading analysis engine EnergyPlus natively in the application. •Integrated Workflow •Conceptual Design •Load Calculations and Data Managers •HVAC Design •Results Simulation •Standards Compliance etc. | Item Types Enhancements in OpenRoads Designer 2022 Release 1 OpenRoads Designer 2022 Release 1 includes many Item Type enhancements. Learn how you can easily write expressions that include civil properties with the new Copy Expression and IntelliSense capabilities. Discover how to define station and offset expressions so they values are always up to date! No more need for the Asset Manager to calculate static station and offset values that must be updated manually. Many other enhancements such as conditional pick lists, single source of truth for drainage elements, and much more will also be discussed. | Civil Labeler - tips and tricks Learn more about the Civil Labeler and what you can do for your plan labeling with this new toolset | iTwin in projects (User presentations) Listen to how Sweco NL works with iTwin in projects | ProjectWise Drive & Infrastructure cloud ProjectWise Drive & Infrastructure cloud | MicroStation CONNECT Edition Upgrade for CAD Managers - DGNLibs (WORKSHOP) The design library file does for various critical design settings what a cell library does for often-used drawing symbols. By centralizing parameters such as level definitions, text styles, and dimension styles, a design library makes the job of maintaining and deploying standards much easier. During this course you will learn to create and configure design library files. You will gain an understanding of the various types of settings and resources that can be stored in a design library, and view and set design library-related configuration variables. In many cases you will create and configure the actual settings (such as model seeds, color books, and various "style" definitions), all while gaining an understanding of how design libraries work and design library best practices. | 10.10 |
| | Arek Barszcz, Bentley | Dan Ahern, Bentley | Kevin Jackson, Bentley | Christiaan Post, Sweco NL | Dan Cutler, Bentley | | |
| Room | Paris | Atlanta | New York | Sydney | Milano | Stockholm | Room |
| 11.10 | OpenBuildings Designer Floor Manager and Grid Manager This seminar explores the powerful Floor ACS planes using the Floor Manager and a Grid Manager for a small commercial building. The FloorManager assists with modeling in the 3D design model. Grid Systems created in the Grid Manager assist with placing Columns and Walls in the model, while coordinating with Drawing Plans, Sections, and Elevations. Tips & Tricks will also be covered. | Understanding Terrain Models Learn the tools and techniques behind these dynamic terrain models as well as the do's and don'ts with managing multiple terrain models. | Building Intelligent Digital BIM Models with OpenRail Designer Join representatives from the OpenRail team to learn how rule-based parametric design adds value to Rail modeling. See how additional detail modeling extends level of detail in the Rail Digital Twin in support of BIM requirements for sleepers, rails, joining and associated model attribution. | What's New in ContextCapture Discover the latest reality modeling technology updates in ContextCapture to streamline your workflows. | ProjectWise 2023 Server and client update ProjectWise 2023 Server and client update | | 11.10 |
| | Arek Barszcz, Bentley | Kevin Jackson, Bentley | Håkan Norling, Bentley | Lucas Gigodot, Bentley | Dan Cutler, Bentley | Ronald Zeike, Bentley | |
| 12.00 | Lunch | | | | | | 12.00 |
| Room | Paris | Atlanta | New York | Sydney | Milano | Stockholm | Room |
| 13.10 | OpenBuildings Designer - Vertical Circulation: Working with Stairs and Railings In this seminar we will explore vertical circulation capabilities in OpenBuildings Designer: •Placing Parametric Elevators, Escalators, and Ramps •Stair Types & Placement Options •Stair Settings for Treads, Risers, Stringers, Landings, 2D and Annotation •Placing Railings on Stairs and Slabs •Railing Settings for Rails, Posts, Balusters, and Ends •Extracting a Railing Line from a Stair •Continuous Railings between multiple Floors (Stair Towers) •Railing Drawing 2D Symbolology Best Practices along with Tips & Tricks will be covered. | OpenRoads - Item Type Fundamentals – Part 1 In this session you will learn about the fundamentals of using Item Types in OpenRoads Designer. Topics: •Item Type Properties •Pick Lists •Custom Property Types •Calculated Properties •Expression Builder •Lookup Expression | Rail yard design Creating a Rail Siding Yard; "Move turnouts. Move an alignment with turnouts connected to it. Change turnout type. Connect an alignment to another turnout." | Increase the Fidelity of your Reality Meshes with Photos and Lidar Discover how organizations are leveraging hybrid data input to achieve higher fidelity in their reality meshes. | | Taking Control of how Models are Presented in the View (LECTURE) The MicroStation CONNECT Edition contains a variety of tools and features that may be used to enhance the display of your 3D models. This includes tools developed specifically for use within civil design projects. This session will show how to use tools such as adding rendering materials and lighting. It will also discuss using the populate, stencil, and traffic animation tools and the 3D Warehouse to enhance your 3D civil drawings. | 13.10 |
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| 14.10 | OpenBuildings Designer - Customizing Dynamic Views to Optimize Drawing Production This seminar reviews instructions for creating drawing standards for text, dimensions, DataGroup annotations, display styles, display rules, detailing symbol styles, title blocks and the Dynamic View Seed. | OpenRoads - Item Type Fundamentals – Part 2 In this session, we will focus on how to use Item Types with civil data and show how you can leverage Item Types for quantities and reporting. Topics: •Item Types with Feature Definitions •Single Source of Truth •Propagation, Prioritization, and Conflict Resolution •Asset Manager •Annotation and Labeling •Display Styles and Display Rules •Items Browser •Reports | Rail design basics Regression Analysis – Compare vertical regression points to new vertical geometries, both reports and profile drawings Rail Cant Design - Assign multiple train types with different design values but with the same cant | Optimize the Inspection and Operations Workflows with Digital Twins and AI Reality meshes can be used for visual operations, allowing owner-operators to easily document and inspect existing conditions of industrial sites or factories. ContextCapture Insights allows you to automatically detect objects and defects in your scene. Learn how machine learning applied to digital twins enables you to save time on inspection workflows. | ProjectWise 365 och iTwin(User Presentation) WSPs transition to iTwin. WSPs arbete med övergången till iTwin och arbetet tillsammans med ProjectWise 365. | Get in touch with the latest version of MicroStation (WORKSHOP) (MS 2023 update for everyone) | 14.10 |
| | Brenden Roche, Bentley | Dan Ahern, Bentley | Jean-Pierre Lavel Noel, Bentley | Lucas Gigodot, Bentley | Santhosh Tirunagaru, WSP | | |
| 14:45 | Fika (Coffee break) | | | | | | 14:45 |
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| 15:10 | OpenBuildings Designer - Working with Curtain Wall Systems In this seminar we will explore how to create a Window Wall System and components using the Curtain Wall tool. We explore you how to use the delivered frame and mullion profiles to create various dimensional variations. We will also place doors, glass & metal panels, translucent & wood panels, windows, and louvers. Will also share Tips & Tricks for Curtain Walls. | A introduction to OpenSite Designer A Overview of OpenSite designer | Rail design basics - Geometry Builder Tool and ProjectWise title block integration Edit horizontal and vertical geometry with Geometry Builder Edit Tool and Table Editor Set up drawing seeds for internal drawings and be able to edit drawing name box data from Projectwise | | ProjectWise server-upgrade (User Presentation) Sharing experience and tips for upgrading the integrated server(Cloud hosted environment) as a ProjectWise administrator. In order to get the latest security updates, functions and performance of Working with ProjectWise in general, plotting and with integrated applications. Erfarenhetsåterför och tips från genomförande av server-uppdatering, för säkerhetsuppdatering, nya funktioner och prestandaförbättringar. Gäller både ProjectWise generellt, men även för plotting. | | 15:10 |
| | Arek Barszcz, Bentley | Kevin Jackson, Bentley | Jean-Pierre Lavel Noel, Bentley | | Jens Gothlander, WSP | Ronald Zeike, Bentley | |
| 15.45 | Bentley user Group SWEDEN Join the final presentation user group and get the chance to win a nice prize! | | | | | | 15.45 |
| 16.00 | End - see you next year! | | | | | | |