

Thursday 09 november 2023

08.00	Registration and Coffee					08.00
Room	NEW YORK					Room
09.00	Welcome by Elin Kågas Ramström, Chair Bentley User Group SE					09.00
09.15	Corporate keynote [Bentley]					09.15
10.10	Q&A Bentley Fika (Coffee break)					09.45
10.30	Technical Keynote [Bentley]					10.30
11.00	Cadventure					11.00
11.45	Implementation of ProjectWise at division Transport Infrastructure (User Presentation)					11.30
12.00	LUNCH					12.00
Special intrest group	Building	Civil	Rail	Reality modeling & Digital Twins	Platforms (Microstation & ProjectWise)	Special intrest group
Room	Paris		NEW YORK	Sydney	Milano	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 Overview of todays functionality and roadmap ahead	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
	Bentley	Bentley	Bentley	Bentley	Bentley	
Room	Paris	Atlanta	New York	Sydney	Milano	Room
14.10		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.	14.10
		Bentley	Bentley	Bentley	Ramboll	
15.00	Fika (Coffee break)					15.00
	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. Immense 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.	Preventing support issues using ProjectWise	
15.30						15.30
	Bentley	Bentley	Bentley	Bentley	Mike Clark, Cadventure	
Room	Paris	Atlanta	New York	Sydney	Milano	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 (FFAE). 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.	16.10
	Bentley	Bentley	Bentley	Bentley	Jens Gothlander, WSP	17.00
17.00	Mingle & Drinks @ Piazzan					
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	Room
09.10	OpenBuildings Designer with iTwin Services	Sheet Seed Creation Advanced Tips and Tricks	Geometry Rules and Relationships	Civil Workflows with Digital Twins	MicroStation CONNECT Edition Upgrade for CAD Managers - DGNLibs (WORKSHOP)	09.10
	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	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	Understanding Geometry parent/child relationships, how to build geometry in such a way that it maximizes efficiency when dealing with design changes.	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.	MicroStation CONNECT Edition Upgrade for CAD Managers - DGNLibs (WORKSHOP)	
	Bentley	Bentley	Bentley	Bentley	Bentley	
Room	Paris		New York	Sydney	Milano	Room
10.10	Introduction to OpenBuildings Designer Energy Simulator	Item Types Enhancements in OpenRoads Designer 2022 Release 1	Civil Labeler - tips and tricks	iTwin in projects (User presentations)	ProjectWise Drive & Infrastructure cloud	10.10
	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 •Direct translation from a building design model to an analytical model. •Interoperable with third party applications such as Radiance for daylighting •Conceptual through detailed design	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.	Learn more about the Civil Labeler and what you can do for your plan labeling with this new toolset			
	Bentley	Bentley	Bentley	Christiaan Post, Sweco NL or WSP Santosh	Dan Cutler, Bentley	
Room	Paris		New York	Sydney	Milano	Room
11.10	OpenBuildings Designer Floor Manager and Grid Manager	Understanding Terrain Models	Building Intelligent Digital BIM Models with OpenRail Designer	What's New in ContextCapture	ProjectWise 2023 Server and client update	11.10
	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.	Learn the tools and techniques behind these dynamic terrain models as well as the do's and don'ts with managing multiple terrain models.	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.	Discover the latest reality modeling technology updates in ContextCapture to streamline your workflows.		
	Bentley	Bentley	Bentley	Bentley	Dan Culter, Bentley	
12.00	Lunch					12.00
Room	Paris	Atlanta	New York	Sydney	Milano	Room
13.10	OpenBuildings Designer - Vertical Circulation: Working with Stairs and Railings	OpenRoads - Item Type Fundamentals – Part 1	Rail yard design	Increase the Fidelity of your Reality Meshes with Photos and Lidar	MicroStation CONNECT Edition Upgrade for CAD Managers - DGNLibs (WORKSHOP)	13.10
	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 Symbology Best Practices along with Tips & Tricks will be covered.	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 Bentley	Creating a Rail Siding Yard; "Move turnouts, Move an alignment with turnouts connected to it. Change turnout type. Connect an alignment to another turnout."	Discover how organizations are leveraging hybrid data input to achieve higher fidelity in their reality meshes.	MicroStation CONNECT Edition Upgrade for CAD Managers - DGNLibs (WORKSHOP)	
	Bentley	Bentley	Bentley	Bentley	Bentley	
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14.10	OpenBuildings Designer - Customizing Dynamic Views to Optimize Drawing Production	OpenRoads - Item Type Fundamentals – Part 2	Rail design basics	Optimize the Inspection and Operations Workflows with Digital Twins and AI	Taking Control of how Models are Presented in the View	14.10
	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.	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 Bentley	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	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.	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.	
	Bentley	Bentley	Bentley	Bentley	Bentley	
14.45	Fika (Coffee break)					15.00
Room	Paris	Atlanta	New York	Sydney	Milano	Room
15.10	OpenBuildings Designer - Working with Curtain Wall Systems	Today's Plans - Tomorrow's Models	Rail design basics - Geometry Builder Tool and ProjectWise title block integration	Optimize the Inspection and Operations Workflows with Digital Twins and AI	ProjectWise server-upgrade (User Presentation)	15.30
	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.	Building Information Modeling (BIM) is the process of delivering and operating built assets using well-structured digital information that all the necessary parties have access to. This presentation discusses how OpenRoads Designer helps you deliver BIM models	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	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.	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.	
	Bentley	Bentley	Bentley	Bentley	Jens Gothliander, WSP	
15.45	End of user group presentation [BUS]					
16.00	End - see you next year!					