Agenda Nordic Bentley Civil User Conference 2004

Conference agenda and presentations

Tuesday, 9 November 2004

Time		
9:00 – 9:30	**Registration & Coffee**	
9:30 – 10:00	**Opening session (Conference Hall "Svanen")** *Mats Paulsson, Managing Director, Bentley Civil Nordic*	
10:00 – 10:45	**Civil Keynote - Bentley Civil Product Directions (Conference Hall "Svanen")** *Gabe Norona, Senior Vice President, Bentley Civil* A state of the union for Bentley Civil outlining the status and direction of the product lines for civil engineering and transportation operations and management.	
10:45 – 11:45	**InRoads 2004 Edition (Conference Hall "Svanen")** *Mike Wilson & Richard Bradshaw, Senior Managers- Technical, Bentley Civil* This presentation will review the 2004 Edition of the InRoads products and introduce the new civil suite for InRoads. This session will also provide an overview on the new and enhanced content.	
	Session I **Conference Hall "Svanen"**	**Session II** **Conference Room "Oxford"**
11:45 - 12:30	**Tramway to Slussen** *Mattias Skoog, Ramböll Sweden* The design of an underground tramway station close to an existing metro station is like working with a 3D jigsaw puzzle. The design team needed a 3D model to understand the existing underground constructions and to assure that the designed tunnels and station did not collide with them. The greatest benefits of using MicroStation V8 and Bentley InRail are the integrated design-visualization process and the ability to easily render images and QuickTime VR files. MicroStation V8 gave the design team the power to work with a model containing hundreds of thousands of triangles and dynamically view the model from different angles.	**Getting started with Storm and Sanitary** *Barry Mathews, Software Consultant, Bentley Civil* This presentation will introduce you to the basics of setting up a Storm & Sanitary project. You will also learn how to layout, design, analyze and report on your Storm & Sanitary networks.
12:30 - 13:30	**Lunch Break**	
13:30 – 14:15	**Virtual reality for Signal Scheme design (Conference Hall "Svanen")** *Ted Stephens, Industry Consultant Managing Director, Bentley UK* A Virtual Railway provides a way of bringing together all of the disparate data sets used for upgrading a railway into a single data model and then to be able to review this information. A number of different software tools will be reviewed to meet the signal sighting requirements, including placing signals, performing calculations; creating flight lines for driver's eye position and interacting with the VR viewer. The purpose of this is to ensure that the changes to the railway deliver a fully functioning railway at each stage and reduce the delivery risk.	
	Session I **Conference Hall "Svanen"**	**Session II** **Conference Room "Oxford"**
14:15 – 15:00	**Plan and Profile Generator** *Barry Mathews, Software Consultant, Bentley Civil* This presentation will demonstrate the setup, creation, and editing of Plan and Profile sheets using the Plan and Profile Generator.	**Document management in the engineering process, Case study of Swedish Rail Administration (Banverket).** *Bo Karlsson, Business Development Manager, Bentley Sweden* Banverket is using ProjectWise for managing legacy data and engineering documents in Planning, Design, Construction and Operations of Railway infrastructure. The presentation will describe the Document Management project based on ProjectWise within Banverket.

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15:00 – 15:30	Coffee Break	
	Session I **Conference Hall "Svanen"**	**Session II** **Conference Room "Oxford"**
15:30 – 16:15	**InRoads EC it's Free** *Rob Nice, Application Consultant Civil, Bentley UK* Get to know the InRoads EC and how it can be useful to the entire design team. MicroStation CivilPAK Engineering Configuration for InRoads and the InRoads Family of products both rely on an intuitive set of tools that allow the user to customise labelling and place intelligent annotation on their drawings. Using these drafting tools users can increase productivity of the entire civil design team.	**InRail 2004 Edition and a bit more** *Richard Bradshaw, Senior Manager- Technical, Bentley Civil* This presentation will review the 2004 Edition of InRail and take a look at rail specific enhancements planned for the 2005 Edition of InRail.
16:15 – 17:00	**Site design using features** *Rob Nice, Application Consultant Civil, Bentley UK* The use of InRoads intelligent feature based DTM'S makes the creation of site grading DTM models simple and fast. The intelligent feature based DTM is one of the most powerful components in InRoads. Once you understand how InRoads uses, stores and manipulates DTM features you will be able to take advantage of your knowledge and use of the InRoads commands for advanced design techniques.	**Unified Railway Model** *Chris Angus, Project Director Rail Industry, Bentley UK* The Unified Railway Model is a geographically correct, 3D link node model of every track in the railway network. This new approach to network modeling combines disparate data types, providing a single open system for the identification and analysis of all aspects relating to the development, maintenance and operation of the railway system. A live presentation will be carried out using the UK rail network, created and maintained for Network Rail, to show how data such as OLE, digital video and other future data types can be cross-referenced against any other registered data.
17:00 – 17:45	**Did You Know…?** *InRail/InRoads Development Staff, Bentley Civil* Covers an array of "How to…" and "Do this..." scenarios to increase engineering productivity with the InRoads suite of products.	**Railway Catenary Design Products** *Ted Stephens, Industry Consultant Managing Director, Bentley UK* This presentation gives users an update on progress with the design and development of the new Railway Catenary Design product from Bentley. It will focus on the functionality to be included in the system, the workflow process, which the system will support, and how it has been designed for configuration for different types of catenary systems. The purpose of the presentation is to engage users at an early stage of the product design cycle and to take feedback to ensure that it will meet the needs of the industry.
19:30	Dinner at "Copenhagen Corner" hosted by Bentley	

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9:00 – 9:45	**Copenhagen Metro projekt (Conference Hall "Svanen")** *Torben Johansen, Ørestadsselskabet.* Ørestad is an area being created from the ground up, born with fully developed infrastructure - roads, metro, railways and proximity to the airport. The Copenhagen Metro is the backbone for public transportation, and the Metro's fully automatic trains link the city Centrum with Ørestad to the east and Frederiksberg to the west, making traveling across Copenhagen fast and easy. Due to this well-developed infrastructure, new developments in this part of the city are easy to generate in the very beginning of the expanding phase. The construction of a new metro line – phase three to connect to Kastrup International airport has just begun. This presentation will provide an overview of the Copenhagen Metro project: how requirements, decisions, design and construction has led to fully automatic, driverless trains running at a rush hour frequency of two minutes.
9:45 – 10:30	**Beyond the InRoads 2004 Edition (Conference Hall "Svanen")** *Mike Wilson and Richard Bradshaw, Senior Managers- Technical, Bentley Civil* This session will provide an insight into the new tools coming in the next major release of the InRoads products. This will be a "live" demonstration showing tools for standards management to modeling to drawing production and more. This is a session not to be missed!
10:30 – 10:45	**Coffee Break**

Time	Session I Conference Hall "Svanen"	Session II Conference room "Oxford"
10:45 – 11:30	**Creating and using textual data within InRoads 2004 Edition** *Richard Bradshaw, Senior Manager- Technical, Bentley Civil* This presentation will take a closer look at importing data with the "new" Text Import Wizard. In addition we will investigate using an industry standard like LandXML for import and exporting data. We will also take a look at using the XML Reports and just what options on the dialog do I need to set to get a report.	**Laser Scanning from Leica** *Per Paag, Leica Geosystems* Laser scanning is widely used nowadays in various construction and transportation projects. In this session the basic technology and typical utilizations of laser scanning will be introduced. The speaker will via demonstration of some practical examples of the instrument to explain how scanned data are to be gathered, stored and processed.
11:30 – 12:15	**Standardizing InRoads** *Marianne Rask, Carl Bro a/s* In cooperation with Bentley Denmark Carl Bro has developed an Access database that makes it easy to create and manage standards and produce Named Levels for MicroStation V8 and preferences for InRoads. See how changes in the database cause changes in graphics created with InRoads.	**Tunnel/CTRL tunnel and Leica** *Richard Bradshaw, Senior Manager- Technical, & Rob Nice, Application Consultant Civil, Bentley Civil* The presentation will cover the use of Point Clouds, produced from the Leica 2500 Scanner, integrated into MicroStation using Bentley Cloudworx and InRail to assess the as-built concrete tunnel against the designed location for sections of the Thames tunnel on Stage 2 of the CTRL project in the UK. A look into the future using other types of scanning like Track Measurement Trolleys such as the GRP3000 and GRP5000 as well as 360 degree scanners will also be reviewed.
12:15 – 13:15	**Lunch Break**	
13:15 – 14:15	**InRoads integration with ProjectWise and Plotting (Conference Hall "Svanen")** *Mike Wilson, Technical Senior Manager, Bentley Civil* See the benefits of managing your InRoads design projects through ProjectWise. Learn how to confidently share, synchronize and secure; all InRoads data throughout the project lifecycle.	

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Time	Session I Conference Hall ”Svanen”	Session II Conference room ”Oxford”
14:15 – 15:00	**Leveraging Quantities from InRoads DTM Features** *Mike Wilson, Senior Manager- Technical, Bentley Civil* This presentation will demonstrate the leveraging of quantities from InRoads DTM Features using the InRoads Quantities engine and Quantity Manager application. These powerful tools provide automated computation of quantities from model data, complete management of quantities in a single database, robust reporting, funding splits and more.	**The CAD environment behind the Ørestad, The new Corner of Copenhagen** *Gita Monshizadeh, Rambøll* As Ørestadsselskabets house consultants Rambøll has had a large team working on all Infrastructure disciplines in the Ørestad since 1996. The development of this part of the city will go on as a thirty-year long-term process and includes different phases of design from conceptual design to as build for different constructions at the same time. To establish a CAD environment, which is able to handle the different levels of design data and different design disciplines, including the exchange of design data in various data formats to other parts, has been a challenge. This presentation will provide an overview of the methods used to establish a reliable CAD environment based on MicroStation, InRoads and The Digital InterPlot.
15:00 – 15:15	**Coffee Break**	
Time	Session I Conference Hall ”Svanen”	Session II Conference room ”Oxford”
15:15 – 16:00	**Advanced Decision Tables** *Barry Mathews, Software Consultant, Bentley Civil* This presentation will demonstrate how Decision Tables can be used to model complex side slope conditions.	**StageWorks** *Ted Stephens, Industry Consultant Managing Director, Bentley UK* The Stageworks application was developed for the Thameslink 2000 project in London. It provides an innovative solution to the problem of managing complex railway projects which are delivered as a sequence of changes to the infrastructure over an extended period of time. The application delivers planning functionality for work sequencing based on geographic and schematic views of the railway network. In addition, it also provides modules for real time site management, real time on-site progress reporting and productivity analysis.
16:00 – 16:30	**5 hot issues for a better design tool** *InRail/InRoads Development Staff, Bentley Civil* From a set of questions submitted during Day 1 of the conference. 5 of the best (or hottest) questions will be selected and an appropriate response provided during this session. There is a prize for the best question!	
16:30 – 16:45	**Close Conference**	