

IBUG Spring 2018 Lecture Descriptions

BIM for Transportation and Transit Projects

AECOSim Building Designer is a scalable, multi-discipline building design application that enables BIM workflows to develop and design buildings of any size or complexity from office buildings, DOT maintenance and support buildings, above and below ground rail stations, to multiple building mega-projects such as Airports. Bentley's federated BIM approach allows quick design alternative exploration and adaptive re-use.

BIM enlivened! – AECOSim Building Designer & LumenRT

Enrich your AECOSim Building 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. Easily share interactive, immersive 3D presentations with any stakeholder using Bentley LumenRT LiveCubes.

BIM for Owners – Managing Spaces and Assets

Discover the concept of "spatial containment" and the relationship between spaces and assets, and how it can be used to schedule, locate, compare, and classify FF&E by rooms, across multiple building models. Recognize the importance of interoperability to extend and re-use building information from multiple formats and classification systems. Observe the ability to promote legacy 2D CAD graphics into intelligent objects that can be compared and analyzed with similar type objects in other BIM models. Investigate the ability to link external documents, such as warranty and maintenance information, to any BIM object in the models, and/or drawings.

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.

Gaining Control of Software Licenses (Lecture)

This is a lecture on how to leverage policy driven software licensing to eliminate undesired usage overages. Optimization reports provide data on actual usage of licenses, day, time, user, etc. Software recognition and inventory all of the connected computers. Remotely, notify user that are waiting for a license, query users if they are using a program, and remove users from a program.

Illinois Tollway I294 Central Tri-State Project

AECOM is the Design Corridor Manager (DCM) for IL Tollway's I294 improvement project. This course will present an overview of the project, and how it is being delivered using the new IL Tollway Workspace. It will also present how the DCM is managing the project under a single cloud-based environment using ProjectWise so that all information is coordinated effectively, consistently and efficiently and across the project.

Introducing the Illinois Tollway Workspace

The DCM will present the new IL Tollway Workspace, discussing how and why it was developed. It will also demonstrate its coded nature of levels and features, and the purpose behind this structure.

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Leveraging LumenRT and Virtual Reality

LumenRT is an amazing tool that streamlines the development of traditional visualization products. Come see how this tool is revolutionizing the delivery of projects to the virtual world. True push button delivery of your designs to a virtual environment that allows you, your team, and stake holders to not only see the design but to be IN the design.

MicroStation Tips and Tricks

Time saving tips and tricks

Modeling Techniques – Ramps and Gores

Join Bentley experts to learn recommended techniques to model ramps and gores as part of your mainline roadway corridors.

Modeling Techniques – Retaining Walls, Benching, and Complex End Conditions

Join Bentley experts to learn recommended techniques to model retaining walls, benching, and other complex end conditions.

Modeling Techniques – Roundabouts

Join Bentley experts as they share techniques to model roundabouts in OpenRoads Designer.

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.

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.

Moving to OpenRoads Designer – Where to Start

During this session, we will consider the migration path options for moving to OpenRoads Designer from InRoads, GEOPAK, MXROAD, and PowerCivil SELECTseries 2, 3, and 4 software. Learn what can be done, the minimum that must be done, and what Bentley resources and services are available to assist you.

OpenRoads Designer Survey Update

Learn what the latest changes are to OpenRoads Designer Survey.

OpenRoads Best Practices – Drawing Production

Join Bentley experts for tips and tricks using the new OpenRoads Designer cross section and plan sheet layout and annotation tools.

OpenRoads Designer Volumetrics and Quantities

OpenRoads Designer has several techniques to compute volumes and component quantities from a model. During this session we will show how to compute component quantities and volumes. These can be computed and reported for the entire project or broken down into reporting boundaries that meet specific project needs. The reporting boundaries are flexible and can follow staged construction areas, sides of the road, station ranges (like traditional end area volumes) and more.

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Tollway 3D-Modeling Initiative Update

Get an update on the status of the Tollway's 3D-Modeling initiative.

Using the Illinois Tollway Workspace 3D Linear Method

This course will demonstrate an innovative approach known as 3D Linear Method, which is used to develop visualized 3D models for transportation improvement projects. The inefficiencies in current modeling practices will be highlighted, while the 3D Linear Method will illustrate an alternative approach, which is a more accurate and efficient technique to 3D modeling. This course will demonstrate how this technique relates to the new IL Tollway Workspace as a more efficient method to develop roadway models.

Using the Illinois Tollway Workspace Naming Convention, TINs, Alignments

This course is part 1 of 3 demonstrating efficient design and production methods using IL Tollway Workspace. Part 1 covers: Naming convention, Using TINs, Horizontal and Vertical Alignments.

Using the Illinois Tollway Workspace Templates, Corridors, Features and Surfaces

This course is part 2 of 3 demonstrating efficient design and production methods using IL Tollway Workspace. Part 2 covers: Corridors, Templates, Super elevation, Features, Surfaces.

Using the Illinois Tollway Workspace – Output and Analyzing Model

This course is part 3 of 3 demonstrating efficient design and production methods using IL Tollway Workspace. Part 3 covers: Plan Production from Models, Analysis of Models, Quantities from Models.

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.

Under the Surface with Subsurface Utilities

Building a drainage model is fast and easy, but a LOT happens under the surface when you click Subsurface Utilities buttons. This presentation digs into how OpenRoads and StormCAD unite to provide a comprehensive drainage and utility solution. What happens when you click Place Node? or Place Conduit? or Compute? How do you confirm the results you got? Where did those newly designed pipe sizes come from? How do you constrain the design to your needs? Join us as we answer these questions.

What is new in the AECOSim Building Designer CONNECT Edition?

Find out what AECOSim Building Designer CONNECT Edition can do.