2025 FLUG TRAINING FORUM
Daily Overview

MONDAY Oct. 13	4:30pm - 6:30pm Seagrapes	**Early Bird On-Site Registration** Support Partner Setup
TUESDAY Oct. 14	7:00am - 8:30am Sea Oats / Seagrapes	Registration and Breakfast
	8:00am - 8:15am Sea Oats	Welcome and Event Announcements
	8:30am - 5:15pm	General Sessions and Hands-On Workshops
WEDNESDAY Oct. 15	7:00am - 8:30am Sea Oats / Seagrapes	Registration and Breakfast
	8:00am - 8:15am Sea Oats	Welcome and Event Announcements
	8:15am - 9:15am Sea Oats	**Key Note: Dan Vogen, VP Transportation, Bentley Systems Inc.** **Shaping the Future: A Journey of Innovation and Transformation**
	9:45am - 5:15pm	General Sessions and Hands-On Workshops
	7:00pm - 9:00pm Sea Oats	*Evening Event: Pub Style Trivia - TRIVIA Nation - Limited Drink Coupons will be available!* *Presented by FLUG - Teams of a 6 Max - Sign up begins at 6:30pm - Food will be available for purchase from Longboards Tiki Beach Grille menu.*
THURSDAY Oct. 16	7:00am - 8:30am Sea Oats / Seagrapes	Registration and Breakfast
	8:00am - 8:15am Sea Oats	Welcome and Event Announcements
	8:30am - 5:15pm	General Sessions and Hands-On Workshops
	6:30pm - 9:30pm ***Ball Room***	*Evening Social: Tail Gate Extravaganza - Refreshments Served!* ***Presented by FLUG and Our Partners***
FRIDAY Oct. 17	7:00am - 8:30am Sea Oats / Seagrapes	Registration and Breakfast
	8:00am - 8:15am Sea Oats	Welcome and Event Announcements
	8:30am - 3:45pm	General Sessions and Hands-On Workshops

Tuesday - October 14th

		General Session Dunes (60)	General Session Sea Oats (120)	General Session Sawgrass (60)	General Session Starfish (34)	General Session Sand Dollar (30)	General Session Sundial (24)	Workshop Sandcastle I	Workshop Sandcastle II	Workshop Seahorse	Workshop Horizon
8:30-9:30	"Technology Hub Open - Come and visit our Support Partners!!"	**FDOT** **FDOTConnect 2024 General Workspace Setup Configuration and Troubleshooting What's New!** FDOT Matt Sexton / Brian Martin	*** ** Road & Survey - Tips and Tricks and new functionality added in recent release 2024** Bentley Jordan Belcher	**Introduction to Reality Modeling** Bentley Kurt Rasmussen	**What's new in OpenBridge Designer?** Bentley Steve Willoughby	**FDOT** **FDOT C3D 2026 What's New** FDOT Mike Racca	**Getting Started On Bentley Infrastructure Cloud** Bentley Teresa Bouton	*** T-1-SC I** **OpenRoads - Creating and Editing Centerline Geometry** Bentley Matthew Wheeler	*** T-1-SC II** **OpenRoads - Introduction to OpenRoads Designer for Civil 3D Users** Bentley Jeremy Carson	**T-1-SH** **Introduction to MicroStation for ALL Users** Bentley Dave Mayer	*** T-1-H** **FDOTConnect 2024 - Roadway Design 2D Basics** ACEC-FDOT Gary Gaioti & Juan Villafuerte
		Break									
9:45-10:45		**FDOT** **FDOTConnect 2024 CADD Compliance Delivery Checklist Tools** FDOT Matt Sexton & James Griffith	*** OpenRoads - Geometry Rules and Relationships** Bentley Beebe Ray	*** Manage your Road project in iTwin Capture Manage & Extract** Bentley Kurt Rasmussen	*** OpenBridge Modeler - How to Supplement a DOT OpenBridge WorkSpace** Bentley Steve Willoughby	*** FDOT** **FDOT C3D 2026 Plan Production Workflows** FDOT Mike Racca	**Why choose ProjectWise for your projects?** Bentley Teresa Bouton				
		Break									
11:00-12:00		*** FDOT** **FDOTConnect 2024 Automated Quantities Troubleshooting and Custom Pay Items** FDOT Joel Sevilla / James Griffith	*** You Break It, You Buy It: Updating & Modifying Civil Geometry in OpenRoads Designer** RS&H Samuel Worthy	*** OpenRoads - Deep Dive into Annotations - Text Favorites** Bentley Megan Roden	*** OpenBridge Plans Production Tools** Bentley Sye Chakraborty	*** FDOT** **FDOT C3D 2026 Count Me In! On Quantities** **How FDOT utilizes Civil3D for Quantifying Infrastructure projects** FDOT Marcus Duval	**Landscape Architecture Workflows with OpenBuilding Designer** Bentley Mark Enos / Jitender Sansoa	*** T-2-SC I** **OpenRoads - Creating and Managing Multiple Terrain Models** ***NEW*** Bentley Erika Smith	*** T-2-SC II** **OpenRoads - Designing a Pond** Bentley Holly Herring	**T-2-SH** **AccuDraw Basics for Civil Engineering (2D & 3D)** Bentley Dave Mayer	
1.5 Hr		**Lunch**									
1:30-2:30		*** OpenRoads - Deep Dive into Annotations - Annotation Groups** Bentley Megan Roden	*** OpenRoads - Earthwork, Grading, and working with Meshes** Bentley Todd Holt	**What's New in MicroStation** Bentley Tamicca Sellars & Dan Eng	*** OpenBridge Modeler - Phased Bridge Construction Modeling** Bentley Michael Clayborne	*** FDOT** **FDOT C3D 2026 Geotech Tools** FDOT James Griffith / Mike Robertson	**OpenRail - New functionality added in recent releases 2024** Bentley Matthew Wheeler				
		Break									
2:45-3:45		*** OpenRoads - Deep Dive into Annotations - Civil Labeler** Bentley Megan Roden	*** OpenRoads Designer - Getting the Model Right: Above and Beyond Corridor Modeling** Bentley Christiana Holmes	*** OpenRoads - Special ditch and curb annotation in profile** Bentley Jordan Belcher	*** OpenRoads - Common Drainage and Utility Problems and How to Solve Them** Bentley Erika Smith	**FDOT** **FDOTConnect 2024 Traffic Tools Update** FDOT Marcus Duval	*** Drawing with MicroStation for Civil Designers** Bentley Dave Mayer	*** T-3-SC I** **OpenRoads - Introduction to Creating Civil Cells Part 1 (2D & 3D Geometry)** ***NEW*** Bentley Todd Holt	*** T-3-SC II** **OpenRoads - Designing Gutters to Convey Runoff** Bentley Beebe Ray	*** T-3-SH** **OpenBridge - 2D Drawing Production with OBM** Bentley Sye Chakraborty	
		Snack with the Support Partners! (Technology Hub)									
4:15-5:15		*** FDOT** **FDOTConnect 2024 Civil Plan Labeling** FDOT Joel Sevilla	**OpenRoads -Workspace Best Practices** Bentley Christiana Holmes	*** OpenRoads - Streamlined Corridor Modeling for Adaptive Maintenance of Traffic and Efficient Quantity Extraction** Bentley Jordan Belcher	**Automated Feature Detection (from PDF, PNG, JPG, TIFF) An AI Application** Phocaz Mark Stefanchuk	**Creating Forms, Custom Stamps, & Comparisons with Bluebeam Revu** DDS CAD Ari Rejtman	*** ** Reality Modeling - Cesium ION Overview and Digital Cities Solution** Bentley Kurt Rasmussen				

Legend
* denotes PDH credits
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* ** denotes both PDH and PSM CE Credits

Wednesday - October 15th

		General Session Dunes (60)	General Session Sea Oats (120)	General Session Sawgrass (60)	General Session Starfish (34)	General Session Sand Dollar (30)	General Session Sundial (24)	Workshop Sandcastle I	Workshop Sandcastle II	Workshop Seahorse	Workshop Horizon
8:30-9:30	"Technology Hub Open - Come and visit our Support Partners!!"	Key Note									
		Break									
9:45-10:45		*** FDOT FDOTConnect 2024 Custom Drainage Structures: Pond Control** FDOT James Worley	*** ** OpenRoads - Creating Proposed Terrain Models** Bentley Matthew Wheeler	**Utility Coordination/Conflict: Using 3D Model tools in Utility Coordination: Utility Conflict Resolution** Bentley Group, Inc. Melonie Schwartz	*** Detailing of Bridge Elements using ProStructures** Bentley Sye Chakraborty	*** FDOT FDOTConnect 2024 Geotech Tools** FDOT James Griffith	*** OpenBuildings Designer for Road Infrastructure – Design of Support Buildings and Structures** Bentley Mark Enos / Jitender Sansoa	**W-1-SC I Simultaneous Collaboration with Bluebeam Studio Sessions** DDSCAD Ari Rejtman	*** W-1-SC II OpenRoads - Intersection Design Part 1 - Horizontal and Vertical Geometry** Bentley Megan Roden	*** W-1-SH OpenRoads - Introduction to Creating Civil Cells Part 2 (3D Modeling Detailing) *NEW*** Bentley Todd Holt	*** W-1-H FDOTConnect 2024- Existing Modeling** ACEC-FDOT Gary Gaiotti & John Thomas
		Break									
11:00-12:00		*** FDOT FDOTConnect 2024 ORD Drainage** FDOT James Worley	**OpenRoads - Upgrade your Project: Data Migration - New Tools and Workflows** Bentley Holly Herring	**Utility Coordination/Conflict: Utility Conflict Identification and Constructability** Bentley Group, Inc. Melonie Schwartz	*** OpenBridge Modeler - Grading Design and Modeling at Bridge Abutments** Bentley Michael Clayborne	**Bridging the Gap to Digital Delivery *NEW*** VHB Kyle Rosenmeyer	**Best Practices for OpenBuildings Designer with Civil and Plant Infrastructure Projects** Bentley Mark Enos / Jitender Sansoa				
1.5 Hr		Lunch									
1:30-2:30		*** OpenRoads - Drainage/Utilities - Plans Production Tips and Tricks** Bentley Erika Smith	**OpenRoads Designer Troubleshooting** RS&H Samuel Worthy	**Utility Coordination/Conflict: When to get SUE (Subsurface Utility Exploration) and not get SUE, that is the question!** Bentley Group, Inc. Melonie Schwartz	*** OpenRoads - How to Supplement a DOT Workspace** Bentley Christiana Holmes	**** MicroStation - GeoSpatial 101** Bentley Dan Eng	**Empowering Urban Infrastructure : The Role of Urban Digital Twins** Bentley Mark Enos / Jitender Sansoa	*** W-2-SC I OpenBridge - 3D Drawing Production with OpenBridge Modeler** Bentley Sye Chakraborty		*** W-2-SH OpenRoads - Drainage Plans, Profiles and Cross Sections *NEW*** Bentley Jordan Belcher	
		Break									
2:45-3:45		**MicroStation - Printing and Publishing** Bentley Dave Mayer	*** OpenRoads - Cross Sections Annotation** Bentley Alexis Nichols	*** OpenRoads - Annotating Drainage and Utilities** Bentley Erika Smith	**OpenRoads - Best Practices for organizing Files and References** Bentley Christiana Holmes	*** Using OpenRoads Designer to Identify and Manage Utility Clashes in Transportation Projects** Bentley Beebe Ray	**Civil 3D in the Cloud – Autodesk Construction Cloud / ACC** AtkinsRealis Oscar Castaneda		*** W-2-SC II OpenRoads - Intersection Design Part 2 - 3D Model Detailing** Bentley Megan Roden		
		Snack with the Support Partners! (Technology Hub)									
4:15-5:15		**MicroStation - Creating Tables and Reports** Bentley Dave Mayer	*** OpenRoads - Creating Staged Cross Sections** Bentley Jeremy Carson	**3D Deliverables for Model as a Legal Document: First Steps on First Coast Expressway** RS&H John-Mark Palacios	**OpenRoads - File Federation and Optimizing the Corridor** Bentley Christiana Holmes	*** ** Construction Roadway Volume Verification for FDOT** Sitech Mike Eason	**OpenRoads Designer and Civil 3D – What's the Difference** AtkinsRealis Oscar Castaneda				

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Thursday - October 16th

		General Session Dunes (60)	General Session Sea Oats (120)	General Session Sawgrass (60)	General Session Starfish (34)	General Session Sand Dollar (30)	General Session Sundial (24)	Workshop Sandcastle I	Workshop Sandcastle II	Workshop Seahorse	Workshop Horizon
8:30-9:30	"Technology Hub Open - Come and visit our Support Partners!!"	*** ** Introduction to OpenRoads Designer** Bentley Alexis Nichols	**FDOT FDOTConnect 2024 General Workspace Setup Configuration and Troubleshooting What's New! (Repeat)** FDOT Matt Sexton / Brian Martin	**** Utility Coordination/Conflict Turnkey Relocation and Project Management** Badger / GeoPoint Surveying Larry Hill / Michael Wolf	*** Tips and Tricks using OpenBridge - Part 1** Bentley Steve Willoughby	**Introduction to ProjectWise Managed Workspace** Bentley Buddy Branham	**SYNCHRO Construction Solution** Bentley Shaohua Guan	*** **TH-1-SC I Locate Geometry in the Correct Place on Earth with MicroStation** Bentley Dave Mayer	**TH-1-SC II OpenBuildings Designer: Modeling and BIM Essentials of a 3D Transit Station** Bentley Mark Enos / Jitender Sansoa	**** TH-1-SH OpenRoads - Geometry for Surveyors *NEW*** Bentley Todd Holt	***TH-1-H FDOTConnect 2024 - Drainage & Pond Design with 3D Modeling & Plans Development** ACEC-FDOT Kyle Rosenmeyer & Ramone Spalding
		Break									
9:45-10:45		**Simplifying Signatures & Submittals with Bluebeam Revu** DDSCAD Ari Rejtman	*** OpenRoads - Item Type Fundamentals – Part 1** Bentley Jordan Belcher	**** Utility Coordination/Conflict Paving the Way to Project success with Early Detection** Badger / GeoPoint Surveying Larry Hill / Michael Wolf	*** Tips and Tricks using OpenBridge - Part 2** Bentley Michael Clayborne	**FDOT FDOTConnect 2024 ProjectWise Managed Workspace** FDOT / Bentley Mike Robertson / Buddy Branham	**Interrogating an iModel in SYNCHRO** Bentley Shaohua Guan				
		Break									
11:00-12:00		*** OpenRoads - All about creating Drainage Features** Bentley Beebe Ray	*** OpenRoads - Item Type Fundamentals – Part 2** Bentley Jordan Belcher	*** FDOT Quantities in OpenRoads Designer** 3D Highway Engineering Richard Perez	**FDOT FDOTConnect 2024 for OpenBridge Modeler Updates** FDOT Steve Tisser / Heather Piorun	**What's new in ProjectWise and what's ProjectWise Cloud?** Bentley Linh Ha	*** Creating a Construction Model in SYNCHRO** Bentley Shaohua Guan	*** TH-2-SC I OpenBridge - Bridge Modeling 101** Bentley Sye Chakraborty	*** TH-2-SC II Building a Basic Model for Sites and Roads** Trimble Scott Bridges	**** TH-2-SH OpenRoads - Regression for Surveyors *NEW*** Bentley Todd Holt	
1.5 Hr											
1:30-2:30		*** OpenRoads - Creating Drainage Reports** Bentley Beebe Ray	*** FDOT FDOTConnect 2024 Automated Quantities Troubleshooting and Custom Pay Items (Repeat)** FDOT Joel Sevilla / James Griffith	*** Civil 3D - Intersection Design - Crossing Intersections (Part 1)** DDSCAD Doug Medley	**Processing, uploading & managing reality data in iTwin Services** Bentley Kurt Rasmussen	**Tips & Tricks for ProjectWise Users** Bentley Linh Ha	*** SYNCHRO Data Collection and Communication - Connecting to OpenRoads Designer** Bentley Shaohua Guan				
		NEW									
2:45-3:45		**MicroStation -Tips & Tricks, The Game Show Version** Bentley Dave Mayer	*** Making the Model More Visual Using the OpenRoads WorkSpace** Bentley Jeremy Carson	*** Civil 3D - Intersection Design - Roundabouts, Cul-de-sacs and Knuckles Design (Part 2)** DDSCAD Doug Medley	*** ** Reality Modeling for Transportation Projects** Bentley Kurt Rasmussen	**An Introduction to the I-Model Composition Server, ProjectWise Web, and ProjectWise Drive** Bentley Linh Ha	*** SYNCHRO 4D Models** Bentley Shaohua Guan	*** TH-3-SC I OpenBridge - Advanced Bridge Modeling Techniques with OBM** Bentley Michael Clayborne	*** TH-3-SC II OpenRoads - Creating and Managing Utilities *NEW*** Bentley Erika Smith	*** TH-3-SH OpenRoads - Road Regression and Re-Design *NEW*** Bentley Holly Herring	
		Snack with the Support Partners! (Technology Hub)									
4:15-5:15		**MicroStation -Tips & Tricks, The Game Show Version (Con't)** Bentley Dave Mayer	*** OpenRoads - Design and Model ADA Ramps** Bentley Jeremy Carson	**The Future of AI in Civil Engineering: Lessons from FDOT Design Buddy** Dewberry Alex Bitter	*** OpenRoads - Best Practices for Civil Cells** Bentley Todd Holt	**Bentley ProjectWise Deliverables Management Overview and Best Practices** Bentley Teresa Bouton	*** ** Creating a Constructable Model for Machine Control and Field Layout** Trimble Scott Bridges				

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Friday - October 17th

		General Session Dunes (60)	General Session Sea Oats (120)	General Session Sawgrass (60)	General Session Starfish (34)	General Session Sand Dollar (30)	General Session Sundial (24)	Workshop Sandcastle I	Workshop Sandcastle II	Workshop Seahorse	Workshop Horizon
8:30-9:30	"Technology Hub Open - Come and visit our Support Partners!!"	*** OpenRoads - Templates Deconstructed** Bentley Alexis Nichols	*** OpenRoads - Roundabout Modeling Part 1** Bentley Jeremy Carson	**3D QC : Developing Policy & Statements. How to create and implement effective Guidance Documents for 3D Design and Quality Control** RS&H John-Mark Palacios	**** OpenRoads Survey - QuickStart for Survey** Bentley Alvie Griffith	**Bentley Infrastructure Cloud - A Practical Overview with Case Studies** RS&H Samuel Worthy	**Introduction to OpenRoads ConceptStation** Bentley Todd Holt	*** F-1-SC I Modeling Rebar in 3D with OpenBridge Modeler/ProStructures *NEW*** AtkinsRealis Steven Tissier	*** F-1-SC II Getting Started with iTwin Capture Manage & Extract *NEW*** Bentley Kurt Rasmussen	*** F-1-SH OpenRoads - Introduction to Drainage Layout and Hydraulics** Bentley Beebe Ray	*** F-1-H FDOTConnect 2024 - Roadway Design 3D Modeling** ACEC-FDOT Emmanuel Marin & Kyle Rosenmeyer
		Break									
9:45-10:45		*** FDOT FDOTConnect 2024 Drainage in 11x17 World** FDOT Jennifer Johnson / James Worley	*** OpenRoads - Roundabout Modeling Part 2** Bentley Jeremy Carson	**GDOT Workspace Turbo Chargers: A Utilities Workspace and Title Block Editor** Phocaz Mark Stefanchuk	**** OpenRoads Survey - Editing Link Code Features** Bentley Alvie Griffith	**** Photogrammetry processing for Point Clouds and Surface Creation** Sitech Mike Eason	*** **Introduction to OpenSite Designer** Bentley Todd Holt				
		Break									
11:00-12:00		*** OpenRoads Designer - Advanced Tips and Tricks for Sheet Seed Creation** Bentley Megan Roden	*** OpenRoads - Modeling Retaining Walls and Side Slopes** Bentley Jeremy Carson	**Digital Delivery: Unlocking the Full Potential of Data Across Model and Non-Model Workflows** WSB David Dudek / Julian Mckinley	**** OpenRoads Survey - Editing Survey Features Using Point Lists** Bentley Alvie Griffith	**Civil Design Review Validation & Analysis with Bentley Infrastructure Cloud** Bentley Christiana Holmes / Jordan Belcher	**Python in MicroStation 2024** Bentley Dan Eng		*** F-2-SC II OpenRoads - Creating and Manipulating the Corridor** Bentley Matthew Wheeler		
1.5 Hr		Lunch									
1:30-2:30		*** 3D to 2D Rebar Detailing Plans Production with ProStructures** AtkinsRealis Steven Tissier	*** OpenRoads- Drainage & Utilities - Tips and Tricks and new functionality added in recent releases** Bentley Jordan Belcher	*** Advanced Use Cases for Item Types *NEW*** VHB Kyle Rosenmeyer	*** ** FDOT Feature Manipulation Engine (FME) at FDOT *NEW*** FDOT Sharon Rodriguez	*** FDOT FDOT C3D 2026 Plan Production Workflows (Repeat)** FDOT Mike Racca	**Introduction to OpenSite+ The New AI Version The future of Bentley Civil Applications** Bentley Beebe Ray	*** F-2-SC I OpenRoads - ConceptStation *NEW*** Bentley Todd Holt		*** F-2-SH OpenRoads - Editing and Managing Geometry *NEW*** Bentley Megan Roden	
		Snack with the Support Partners! (Technology Hub)									
2:45-3:45		**OpenRoads Designer Answer Hour** Bentley Bentley ORD Team	*** ** OpenRoads - Understanding Terrain Models** Bentley Jordan Belcher	*** OpenRoads - Parametric Cell Creation** Bentley Erika Smith	*** FDOT FDOTConnect 2024 Civil Plan Labeling (Repeat)** FDOT Joel Sevilla	**Controlling the Display of Designs for Civil Designers** Bentley Dave Mayer	**Learn how to Manage & Share your Reality Data with 3DM Cloud/Publisher** Bentley Kurt Rasmussen				

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TUESDAY OCTOBER 14th SESSIONS

Time	Title	Speaker	Description	Level	Software	PDH/PSM Credits
8:30 - 9:30	* ** Road & Survey - Tips and Tricks and new functionality added in recent release 2024	Bentley	In this session, learn how to be more productive and efficient as Bentley experts share useful tips, tricks and highlight some of the newer tools that have been added to OpenRoads Designer over the past few releases.	Novice - Expert	OpenRoads Designer	PDH Credits : 1 PSM CE Credit : 1
8:30 - 9:30	FDOT FDOTConnect 2024 General Workspace Setup Configuration and Troubleshooting What's New!	FDOT	This session is an in-depth dive into the process of setting up, configuring and troubleshooting the FDOTConnect 2024 workspace. This session will help the attendee to understand how the software is installed and what to do when things don't go as planned.	Intermediate - Expert	FDOTConnect 2024	PDH Credits : N/A
8:30 - 9:30	What's new in OpenBridge Designer?	Bentley	This presentation will review all the new enhancements in OpenBridge 2024 in addition to a preview of coming attractions for the 2025 release.	Novice - Expert	OpenBridge Designer	PDH Credits : N/A
8:30 - 9:30	Introduction to Reality Modeling	Bentley	Discover how reality modeling provides real-world digital context for digital twins.	Novice - Expert	Bentley Reality Modeling	PDH Credits : N/A
8:30 - 9:30	Getting Started On Bentley Infrastructure Cloud	Bentley	Bentley Infrastructure Cloud brings teams, projects, and asset data together in collaborative and managed environments, allowing you to design, build, and operate sustainable infrastructure. Join us for this info-packed session where we will walk you through the evolution of Bentley Infrastructure Cloud, demonstrate the upgrade path for legacy cloud projects, and reveal best practices for cloud project management	Novice - Expert	Bentley Infrastructure Cloud	PDH Credits : N/A
8:30 - 9:30	FDOT FDOT C3D 2026 What's New	FDOT	Get caught up with what's new in the latest release of the FDOT Civil 3D State Kit 2026. Topics include Maintenance Release (MR) and new version updates.	Intermediate - Expert	FDOT C3D 2026	PDH Credits : N/A
9:45 - 10:45	* OpenRoads - Geometry Rules and Relationships	Bentley	In this OpenRoads Designer session, learn about geometry parent/child relationships, and how to maximize efficiency when dealing with design changes.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
9:45 - 10:45	FDOT FDOTConnect 2024 CADD Compliance Delivery Checklist Tools	FDOT	This session will discuss the various CADD Office tools developed to assist with CADD delivery. Specifically with regards to the CADD Compliance Checklist; Project QC reports, Project Validator reports, Reference Manager/Checker, and Geographic Coordinate System Reports	Novice - Expert	FDOTConnect 2024	PDH Credits : N/A
9:45 - 10:45	* OpenBridge Modeler - How to Supplement a DOT OpenBridge WorkSpace	Bentley	In this OpenBridge session, we will cover how to add features to a Workspace received from an agency. Often the consulting organizations find that they need additional features and sheets, this session will give you the knowledge on how to add this needed information.	Novice - Expert	OpenBridge Modeler	PDH Credits : 1
9:45 - 10:45	* Manage your Road project in iTwin Capture Manage & Extract	Bentley	Tips and tricks to semiautomatic or automatic extract road markings and road borders from pointclouds or images. The session shall show how to use different methods to extract the features. For example usages of Orbit, ContextCapture, Microstation or other Bentley software to extract the features. Both in 2D and 3D.	Novice - Expert	Bentley Reality Modeling	PDH Credits : 1
9:45 - 10:45	Why choose ProjectWise for your projects?	Bentley	Many organizations offer Project Managers the option to use ProjectWise for managing their project content. This session will examine factors such as collaboration features, performance considerations, improved quality assurance through standards compliance, server-side renditioning for PDFs and iTwins…	Novice - Expert	ProjectWise	PDH Credits : N/A
9:45 - 10:45	* FDOT FDOT C3D 2026 Plan Production Workflows	FDOT	This session will focus FDOT C3D Plans Production. We will explain and demonstrate how to create an FDOT Civil 3D Project, Sheet Set (.dst) file, sheets, edit sheets and plotting. We will create and edit fields to make a custom sheet or edit the topics/fields to suit specific needs for FDOT title blocks.	Novice - Expert	FDOT C3D 2026	PDH Credits : 1
11:00 - 12:00	* OpenRoads - Deep Dive into Annotations - Text Favorites	Bentley	All automated annotation has one thing in common, the use of Text Favorites. Text Favorites are capable of infinite combinations of label content. In this presentation, learn how to properly navigate and search the Text Favorite dialog looking for those unique properties. In addition, we will explore some of the more significant Text Favorite settings. Lastly, learn the significance of the Text Style inclusion and how Text Favorites directly interact.	Novice - Expert	OpenRoads Designer	PDH Credits : 1
11:00 - 12:00	* FDOT FDOTConnect 2024 Automated Quantities Troubleshooting and Custom Pay Items	FDOT	This session will explore how to use native Bentley ORD and FDOT workspace tools to visualize and troubleshoot and customize pay item information for quantities.	Novice - Expert	FDOTConnect 2024	PDH Credits : 1

11:00 - 12:00	* You Break It, You Buy It: Updating & Modifying Civil Geometry in OpenRoads Designer	RS&H	This session will focus on updating horizontal alignments and vertical profiles. Since the old workflow of “break it and rebuild it” can now break many reference links within ORD, the proper tools for modifying civil geometry must be used but can be tricky. This workshop shows all the tips and tricks for making these modifications without breaking the links from named boundaries, civil labels, etc. The presentation will include pre-recorded videos of each method, along with live demonstrations.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
11:00 - 12:00	* OpenBridge Plans Production Tools	Bentley	Optimize your plans creation process using the tools provided in OpenBridge Modeler and take advantage of what the MicroStation platform offers as well. Design, Drawing and Sheet models, Section callouts, Elevation Callouts, Clip Volume, Annotation scales are the few topics that we will cover in this session.	Novice - Expert	OpenBridge Modeler	PDH Credits : 1
11:00 - 12:00	Landscape Architecture Workflows with OpenBuilding Designer	Bentley	This session will introduce Landscape Architecture workflows using OpenBuildings Designer which can be applied to FDOT plans. Topics will include: **Existing Context Workflows** Capture Existing Site Conditions: Point Clouds, Reality Mesh Models Working with Civil Models and components from OpenSIte, OpenRoads, and other file formats such as LandXLM and Civil3D Geo-Referencing Site/Civil Models into OpenBuildings Designer **Landscape Content Workflows** Best Practices to extend the delivered Datasets for Landscape content such as the DGNlib Levels, Family/Parts, and DataGroup Catalog Items Placing Site Objects such Trees, Bushes, Site Furniture, Site Fixtures, Site Equipment and Parametric Fencing and Railings Best Practices for creating or importing Site objects from other formats (RFA, OBJ, SketchUp, etc.) Placing and creating Hardscape components and parametric assemblies such as Retaining Walls, Slabs, Curbs, Planters, Steps, and Irrigation. Creating structures and enclosures such as Gazebos, Decking, Pergolas, Arbors, Performance Stages, and Waste/Recycling stations, etc. **Deliverables and Output Workflows** Shadow and Solar Exposure Studies Renderings with embedded Bentley Vue (Photorealistic & NPR Non-Photo Realistic) Immersive Digital Nature with LumenRT Presentation and Construction Drawings: Site Plans, Site Sections, Site Elevations, with Automatic Annotations Easily Customize Reports and Schedules	Novice - Expert	OpenBuildings Designer	PDH Credits : N/A
11:00 - 12:00	* FDOT FDOT C3D 2026 Count Me In! On Quantities How FDOT utilizes Civil3D for Quantifying Infrastructure projects	FDOT	Learn how FDOT uses Civil 3D to automate and streamline quantity takeoffs for infrastructure projects. This session covers key workflows, tools, and standards that support accurate, efficient project delivery using FDOT's C3D environment.	Novice - Expert	FDOT C3D 2026	PDH Credits : 1
1:30 - 2:30	* OpenRoads - Earthwork, Grading, and working with Meshes	Bentley	This presentation will cover the many nuances with computing quantities and calculating earthwork such as unsuitable materials, multiple substrata, and complex volumes with meshes.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
1:30 - 2:30	* OpenRoads - Deep Dive into Annotations - Annotation Groups	Bentley	Annotation Groups are the key to setting up automated annotation for both geometry along with cross section and profile sheets. In this presentation, we will explore the different types of Annotation Groups. After defining the different types of Annotation Groups, we will next look at creating and editing them. Lastly, we will explore importing Annotation Groups from other WorkSpaces to simplify the creation process.	Novice - Expert	OpenRoads Designer	PDH Credits : 1
1:30 - 2:30	* OpenBridge Modeler - Phased Bridge Construction Modeling	Bentley	This presentation will cover generating a phase bridge model, and comparing constructability with an existing bridge model and as-built plans. During this session we will discuss a workflow for modeling phased bridge construction, generating construction sequence drawings, as well as tips, and tricks for working with multiple bridge models.	Novice - Expert	OpenBridge Modeler	PDH Credits : 1

1:30 - 2:30	What's New in MicroStation	Bentley	Discover what is new and improved with MicroStation 2024. Learn about key workflows with designing in context with MicroStation's Geospatial tools as well as improved drawing production advancements. Also, see how your feedback drives MicroStation's user experience.	Novice - Expert	MicroStation 2024	PDH Credits : N/A
1:30 - 2:30	* FDOT FDOT C3D 2026 Geotech Tools	FDOT	Bored? Let's talk borings! This session will explore how to use the FDOT C3D 2026 Geotech Tools to create/import borehole data using the Geotechnical Data Manager and how to use that data to generate the report of core borings, 2D plan elements, 3D Geotech model, and how to create and annotate geotech cross sections.	Novice - Expert	FDOT C3D 2026	PDH Credits : 1
1:30 - 2:30	OpenRail - New functionality added in recent releases 2024	Bentley	Join the Bentley Rail expert to hear what is new in OpenRail Designer.	Novice - Expert	OpenRail Designer	PDH Credits : N/A
2:45 - 3:45	* OpenRoads Designer - Getting the Model Right: Above and Beyond Corridor Modeling	Bentley	In this OpenRoads Designer session, you will learn about corridor modeling methods and tips for creating accurate corridor models.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
2:45 - 3:45	* OpenRoads - Deep Dive into Annotations - Civil Labeler	Bentley	Every engineering project requires manual annotation. Civil Labeler allows the user to create any combination of both static and computed text. Civil Labeler supports many different settings to control the symbology and overall appearance such as rotation, leader lines, etc. In this Presentation we will learn how to create different types of Civil Labels from start to finish. In addition, learn how to import Civil Label Definitions from other WorkSpace Environments.	Novice - Expert	OpenRoads Designer	PDH Credits : 1
2:45 - 3:45	* OpenRoads - Special ditch and curb annotation in profile	Bentley	In this OpenRoads session, you will learn workflows for adding and annotating Special Ditches in Profile	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
2:45 - 3:45	* Drawing with MicroStation for Civil Designers	Bentley	Work with a Geographic Coordinate Systems, angle settings/ coordinate readout, AccuDraw, Smartline, regions, label lines (dimension element), label areas, Bing maps, element priority and transparency; self-reporting location cell	Novice - Expert	MicroStation 2024	PDH Credits : 1
2:45 - 3:45	FDOT FDOTConnect 2024 Traffic Tools Update	FDOT	This session will focus on the updates to the Traffic Tools Applications for ORD 2024.	Novice - Expert	FDOTConnect 2024	PDH Credits : N/A
2:45 - 3:45	* OpenRoads - Common Drainage and Utility Problems and How to Solve Them	Bentley	In this session we will examine the common challenges faced by users of OpenRoads Designer Drainage and Utilities. This exploration will delve into the typical issues encountered, providing insights into potential solutions and the underlying reasons for these problems. By understanding these challenges, users can better navigate the software and enhance their overall experience	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
4:15 - 5:15	OpenRoads -Workspace Best Practices	Bentley	Whether it is keeping up to date, consolidating resources, or configuration variable tweaks, there are always improvements that can be done in a WorkSpace. In this presentation, we will examine some of these more challenging topics.	Intermediate - Expert	OpenRoads Designer	PDH Credits : N/A
4:15 - 5:15	* FDOT FDOTConnect 2024 Civil Plan Labeling	FDOT	This session will focus on FDOT's implementation of the Civil Labeler Tool in FDOTConnect 2024, as well as recent updates and future enhancements.	Novice - Expert	FDOTConnect 2024	PDH Credits : 1
4:15 - 5:15	Creating Forms, Custom Stamps, & Comparisons with Bluebeam Revu	DDS CAD	This presentation delves into "The Three C's" of Bluebeam Revu. We'll start with creating forms in "Form Mode" and how to manipulate each form field. Then, we'll see how these form fields are connected to creating custom stamps that use JavaScript to automatically input important information onto our shop drawings. Then, we'll learn about the "Comparison" and "Overlay" tools and how they work hand-in-hand to help us determine what changes were made between old and new revisions of the same documents.	Novice - Expert	Bluebeam Revu	PDH Credits : N/A

4:15 - 5:15	Automated Feature Detection (from PDF, PNG, JPG, TIFF) An AI Application	Phocaz	Come see how GDOT has merged AI into their workflow to automate feature detection. Learn how they integrate the extracted data into their digital workflow and how they build their own AI models applying these to any project to automate detection. Over the past couple of years, Phocaz has developed tools that leverage existing AI models that are re-trainable to learn about your data. We have transformed the approach to model training making it more accessible to more people. In this session we will demonstrate how to train an AI model on your drawing standards. We can then use that trained model to detect, identify, and geo-locate the data across multiple drawings. This same approach can also be used to detect features in other imagery, meaning we can take aerial imagery and locate features like pavement markings, defects, utilities. And these detections are based on the models that you train. Want to locate all of your crosswalks? Train a model on crosswalk imagery then apply it to imagery from another part of the state. You do not have to be an AI expert. Our users are able to build models based on what they want to find without knowledge of how the training data needs to be assembled. So, imagine if you could automate analysis of different types of images including PDF. What could you do with automated feature extraction from final and as-built drawing packages? What if you could run a detection process across hundreds of drawings in just a few minutes? In this session we will look at tools that make this possible using datasets from GDOT.	Novice - Expert	BIM, GIS, Artificial Intelligence (AI) / Machine Learning (ML)	PDH Credits : N/A
4:15 - 5:15	* ** Reality Modeling - Cesium ION Overview and Digital Cities Solution	Bentley	Cesium ION Overview: Discover the power of Cesium ION in this one-hour session designed for GIS professionals, developers, and 3D visualization enthusiasts. Learn how to upload, tile, and stream high-performance 3D geospatial data—including point clouds, photogrammetry, and BIM models—directly to the web. The presentation will cover Cesium ION's core features, integration with Cesium JS, and real-world applications across industries like urban planning and construction. Attendees will gain practical insights, best practices, and inspiration to elevate their 3D geospatial projects. Digital Cities Solution: Bentley Systems offers a transformative solution for cities and urban infrastructure through its advanced digital twin technology and infrastructure engineering software. By connecting the physical and digital worlds, Bentley empowers city planners, engineers, and stakeholders to visualize, analyze, and manage urban assets in real time. Its AI-powered digital twins enable immersive planning, streamlined operations, and data-driven decision-making across the entire infrastructure lifecycle—from design and construction to maintenance and modernization. With integrated platforms like the Bentley Infrastructure Cloud and iTwin technology, cities can enhance public safety, optimize energy efficiency, improve mobility, and foster transparency through open data initiatives. Bentley's solutions are designed to build resilient, sustainable, and future-ready urban environments that elevate the quality of life for citizens	Novice - Expert	Bentley Reality Modeling	PDH Credits : 1 PSM CE Credit : 1
4:15 - 5:15	* OpenRoads - Streamlined Corridor Modeling for Adaptive Maintenance of Traffic and Efficient Quantity Extraction	Bentley	This presentation will guide attendees through a best-practice workflow for developing corridor models that minimize the need for updates to maintenance of traffic (MOT) plans when design changes occur, while also enabling straightforward extraction of quantities by project phase. Attendees will learn how to set up and manage corridor models that are resilient to design changes, require minimal MOT plan updates, and support easy, accurate extraction of phased quantities—empowering teams to deliver projects efficiently and with confidence.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1

			TUESDAY WORKSHOP			
8:30 - 10:45	* T-1-SC I OpenRoads - Creating and Editing Centerline Geometry	Bentley	In this course, you will learn how to create and edit horizontal and vertical geometry using various tools and techniques. You will be defining the horizontal and vertical geometry for River Rd. You will also learn how to make changes to the River Rd. geometry and how to make changes to the existing geometry for Mountain Highway and Pike Rd.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
8:30 - 10:45	* T-1-SC II OpenRoads - Introduction to OpenRoads Designer for Civil 3D Users	Bentley	This course is a basic introduction to OpenRoads Designer intended for Civil 3D Users.	Novice - Intermediate	OpenRoads Designer	PDH Credits: 2
8:30 - 10:45	T-1-SH Introduction to MicroStation for ALL Users	Bentley	This course will help a new MicroStation user become familiar with the MicroStation CONNECT Edition. This will be done from the point of view of a civil designer or drafter working at a design firm, is new to MicroStation, and has been awarded a design project that they will be involved with. During this course you will learn basic navigation of the MicroStation CONNECT user interface, creating and working with MicroStation design files, design file settings, and more.	Novice - Expert	MicroStation 2024	PDH Credits: N/A
11:00 - 2:30	* T-2-SC I OpenRoads - Creating and Managing Multiple Terrain Models *NEW*	Bentley	In this workshop, you will learn about terrain model feature types, managing existing terrain models using null terrains and complex terrains, clipping terrain models to speed up corridor processing, creating a terrain model using graphical filters, and creating merged terrain models.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
11:00 - 2:30	* T-2-SC II OpenRoads - Designing a Pond	Bentley	This class will look at how to create a pond from a terrain model and to add attenuation to the drainage system. The software was used to build a pond and a terrain from that pond, so it is all fully parametric. The file has been referenced into the imported drainage network file. You can modify the volume and the terrain of this pond at any time you can come back to this file, change the values and there model will automatically update and therefore you can use this for your pond hydraulics.	Intermediate - Expert	OpenRoads Designer - Drainage	PDH Credits: 2
11:00 - 2:30	T-2-SH AccuDraw Basics for Civil Engineering (2D & 3D)	Bentley	In this course, you will learn how to navigate in 2D and 3D design space using AccuDraw. You will learn the basic features, functionality, usage and related settings and shortcuts required for this purpose. This geometrically translates into relocation of the origin and reorientation of the coordinate axes. Starting from the need for a coordinate system, its types and role in the modeling process; its embodiment in AccuDraw is laid out. The main parts of AccuDraw – the Compass and the Coordinate Window – and their role are covered. Besides the main function, other conveniences provided by AccuDraw are also covered like the auto placement of point, context-based change of mode and orientation of axes, access to snap modes, tool settings etc. which add to the speed and thus efficiency.	Novice - Expert	MicroStation 2024	PDH Credits: N/A
2:45 - 5:15	* T-3-SC I OpenRoads - Introduction to Creating Civil Cells Part 1 (2D & 3D Geometry) *NEW*	Bentley	This course teaches the tools and techniques that can be used to create a civil cell. You will learn how to create a civil cell for a T-Intersection using horizontal and vertical geometry. This course will only focus on the horizontal and vertical civil geometry tools to create 2D and 3D geometric elements to create a Civil Cell.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
2:45 - 5:15	* T-3-SC II OpenRoads - Designing Gutters to Convey Runoff	Bentley	In this class you will learn how to place inlets with catchment delineation, and how to calculate and collect the runoff from a road surface. You will also learn how to evaluate whether the inlet efficiencies, and the spread widths of the flows along the road edge are acceptable, and adjust the design to achieve this.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
2:45 - 5:15	* T-3-SH OpenBridge - 2D Drawing Production with OBM	Bentley	This course teaches the general terminology and workflows for creating drawing and sheet models using 2D only techniques.	Novice - Intermediate	OpenBridge Modeler	PDH Credits: 2
8:30 - 5:15	* T-1-H FDOTConnect 2024 - Roadway Design 2D Basics	ACEC-FDOT	This training course that will go over the fundamentals of 2D design Alignments, 2D-Planimetrics & Profiles. Participants will be introduced to Bentley OpenRoads Designer Connect Edition – OpenRoads Technology tools for design and modeling; specifically for Florida Department of Transportation (FDOT) projects using the FDOTConnect 2024 Workspace.	Novice - Expert	FDOTConnect 2024 - OpenRoads Designer	PDH Credits: 6

WEDNESDAY OCTOBER 15th SESSIONS

Time	Title	Speaker	Description	Level	Software	PDH/PSM Credits
9:45 - 10:45	* FDOT FDOTConnect 2024 Custom Drainage Structures: Pond Control	FDOT	Have at least one pond on your project? Then you will more than likely have at least one Pond Control Structure that will be needed. In this session we will look at how an existing ORD Drainage Structure can be made into a Pond Control Structure. Starting with a standard top we will add weirs, an orifice and even a skimmer to make the new structure top. Also if you stay until the end you will be among the first to see an upcoming application to help with this process. So, come join in on the fun and learn how it is done.	Intermediate - Expert	FDOTConnect 2024	PDH Credits : 1
9:45 - 10:45	* ** OpenRoads - Creating Proposed Terrain Models	Bentley	In this OpenRoads Designer presentation, discover how to create terrains using graphical filters, draft terrains from design meshes, and develop combined terrains using the tool 'Create Complex Terrain'.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1 PSM CE Credits : 1
9:45 - 10:45	* Detailing of Bridge Elements using ProStructures	Bentley	As part of your plans production deliverables, Rebar detailing is one of the more time-consuming tasks in your project. Learn how to detail reinforcement using the parametric modeling tools in ProConcrete for bridge footings, columns, caps and walls.	Intermediate - Expert	OpenBridge Modeler - ProStructures	PDH Credits : 1
9:45 - 10:45	* FDOT FDOTConnect 2024 Geotech Tools	FDOT	Bored? Let's talk borings! This session will explore how to use the FDOTConnect2023 Geotech Tools to create/import borehole data using the Geotechnical Data Manager and how to use that data to generate the report of core borings, 2D plan elements, 3D Geotech model, and how to create and annotate geotech cross sections.	Novice - Expert	FDOTConnect 2024	PDH Credits : 1
9:45 - 10:45	Utility Coordination/Conflict: Using 3D Model tools in Utility Coordination: Utility Conflict Resolution	Bentley Group, Inc.	The session will discuss the identification of utility conflicts and their impacts, using iTWINs to view conflicts, and supplemental information utilities may need to complete their conflict review.	Novice - Expert	Utility Coordination / Conflicts	PDH Credits : N/A
9:45 - 10:45	* OpenBuildings Designer for Road Infrastructure – Design of Support Buildings and Structures	Bentley	OpenBuildings Designer is a scalable, multi-discipline building design application that enables BIM workflows to develop and design buildings of any size or complexity from support buildings such as toll plazas, vehicular maintenance buildings, comfort stations and weigh stations. Bentley's federated BIM approach allows quick design alternative exploration and adaptive re-use.	Intermediate - Expert	OpenBuildings Designer	PDH Credits : 1
11:00 - 12:00	* FDOT FDOTConnect 2024 ORD Drainage	FDOT	With new software comes new processes! This presentation will demonstrate the new process of creating your FDOTConnect ORD Drainage designs and what needs to be done to facilitate the new element properties being populated.	Novice - Expert	FDOTConnect 2024	PDH Credits : 1
11:00 - 12:00	OpenRoads - Upgrade your Project: Data Migration - New Tools and Workflows	Bentley	In a recent release, we introduced new tools and workflows to improve your experience moving legacy data into the latest version of OpenRoads Designer. In this session, you will learn how to utilize these tools to import your projects and continue your work.	Novice - Expert	OpenRoads Designer	PDH Credits : N/A
11:00 - 12:00	* OpenBridge Modeler - Grading Design and Modeling at Bridge Abutments	Bentley	Let's review how to utilize the linear templates functionality in OpenBridge Modeler to model more complex abutment grading options thru the use of a pre-defined template library.	Intermediate - Expert	OpenBridge Modeler	PDH Credits : 1
11:00 - 12:00	Bridging the Gap to Digital Delivery *NEW*	VHB	The transition from 2D engineering plans to digital delivery of infrastructure models is rapidly accelerating within the civil engineering industry. Workforce training, rather than technology, is becoming the limiting constraint to progress. Hear from Kyle Rosenmeyer, VHB, as he shares insights from VHB's industry leading training program to re-wire the workforce for digital delivery. Learn more about this case study from Bentley.	Novice - Expert	Digital Delivery	PDH Credits : N/A
11:00 - 12:00	Utility Coordination/Conflict: Utility Conflict Identification and Constructability	Bentley Group, Inc.	In this session we will discuss what is a utility conflict, direct vs in-direct conflicts, design element impacts to utilities, critical utilities, utility relocation constraints, and constructability concerns.	Novice - Expert	Utility Coordination / Conflicts	PDH Credits : N/A

11:00 - 12:00	Best Practices for OpenBuildings Designer with Civil and Plant Infrastructure Projects	Bentley	OpenBuildings Designer is a scalable, multidiscipline building design application that enables BIM workflows that is built on the “Open” Platform Technology that has the embedded power of MicroStation. We will explore Digital Workflows and Best Practices when working on Water/Plant projects with OpenPlant Modeler and Bentley Cable and Raceway Management. Also we explore workflow on Civil Projects with OpenRoads Designer and OpenRail Designer. • Review of OpenBuildings Designer Workflows (Seed files, Working Units) and Geo-Referencing Civil Models from OpenRoads Designer & OpenRail Designer• Annotating and Displaying Centerlines for OpenPlant Modeler Piping in OpenBuildings Designer • OpenBuildings Best Practices and Tips & Tricks for Concrete: Modeling Sloped Slabs and Walls, Penetrations, and Drawing Family/Part Unification and Re-symbolization • Leveraging Display Rules & Display Styles in Models and Drawings between applications • Creating Tunnels with GenerativeComponents from the OpenRoads Designer & OpenRail Designer alignments • OpenBuildings Designer using iTwin Referencing for Coordination with Revit • OpenBuildings Designer iTwin Referencing with OpenPlant Modeler	Novice - Expert	OpenBuildings Designer	PDH Credits : N/A
1:30 - 2:30	* OpenRoads - How to Supplement a DOT Workspace	Bentley	In this OpenRoads Designer session we will cover how to add features to a Workspace received from an agency. Often the consulting organizations find that they need additional features and sheets, this session will give you the knowledge on how to add this needed information	Novice - Expert	OpenRoads Designer	PDH Credits : 1
1:30 - 2:30	OpenRoads Designer Troubleshooting	RS&H	Join Samual as he discusses some of the common errors and issues in OpenRoads and how to troubleshoot these issues, making you more productive.	Novice - Expert	OpenRoads Designer	PDH Credits : N/A
1:30 - 2:30	* OpenRoads - Drainage/Utilities - Plans Production Tips and Tricks	Bentley	In this OpenRoads Designer session, we will cover a variety of tips and tricks for drainage and utilities in plans production.	Novice - Expert	OpenRoads Designer	PDH Credits : 1
1:30 - 2:30	** MicroStation - GeoSpatial 101	Bentley	This session will help you enhance your MicroStation DGN files through the use of Geospatial data. Learn why it’s important to use Geospatial data. You’ll also gain insights into what the capabilities are, as well as who can benefit from it. You’ll be presented with the latest technological capabilities in MicroStation 2024.00.02 + beyond featuring Geospatial workflows.	Intermediate - Expert	MicroStation 2024	PSM CE Credits : 1
1:30 - 2:30	Utility Coordination/Conflict: When to get SUE (Subsurface Utility Exploration) and not get SUE, that is the question!	Bentley Group, Inc.	In this session we will discuss utility conflicts, Subsurface Utility Exploration, utility agency owner information and how to finalize conflicts to complete the utility coordination process.	Novice - Expert	Utility Coordination / Conflicts	PDH Credits : N/A
1:30 - 2:30	Empowering Urban Infrastructure : The Role of Urban Digital Twins	Bentley	A dynamic Urban Digital Twin is a solution that can be employed to build real-time connectivity between virtual and physical city infrastructure. Enabling cities to have the capabilities to plan for the entire lifecycle of project workflows from early Digital Urban Planning to Digital Construction Management and then to Continuous Infrastructure Asset Management and Operations. Digital Twins combine Reality Models, GIS, BIM models, Road & Bridge Models, CAD files, photographs, and many other file formats, services and databases, Connecting Digital Twins to technologies like the Internet of Things (IoT) and artificial intelligence (AI), cities can monitor and predict sustainable Vehicular & Pedestrian Mobility, Transit Systems, Energy Efficiency, and Emergency Response workflows.	Novice - Expert	Digital Twins / Reality Modeling / ORD / OBD	PDH Credits : N/A
2:45 - 3:45	OpenRoads - Best Practices for organizing Files and References	Bentley	In this session, you will learn about best practices for organizing your OpenRoads Designer project data, files, and references. Federating and organizing your project data will improve the efficiency of your project and your design environment in OpenRoads Designer.	Novice - Expert	OpenRoads Designer	PDH Credits : N/A
2:45 - 3:45	* OpenRoads - Cross Sections Annotation	Bentley	Learn about cross section annotation automation and setup in OpenRoads Designer.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1

2:45 - 3:45	* OpenRoads - Annotating Drainage and Utilities	Bentley	Have you ever needed to annotate a drainage or utility feature but wasn't sure how? This presentation will cover the process of creating annotations of drainage and utility features in: Plan, profile, and cross section views. The tools discussed will include, but are not limited to, creating named boundaries, annotation labels, civil labels, and text favorites to meet your client's needs.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
2:45 - 3:45	MicroStation - Printing and Publishing	Bentley	The Print Organizer is a powerful tool that enables you to organize, resymbolize and batch print projects. But there is more to printing and publishing than using ..... Sheet Models, Saved Views, References, PrintStyles, Pen Tables...	Novice - Expert	MicroStation 2024	PDH Credits : N/A
2:45 - 3:45	* Using OpenRoads Designer to Identify and Manage Utility Clashes in Transportation Projects	Bentley	This presentation demonstrates what a 3D model-based workflow may look like for the average DOT using the 3D modeling and analysis workflows inside OpenRoads Designer Drainage and Utilities to help identify and manage utility conflicts on transportation projects. Below are the main topics covered throughout the presentation: How to import drainage/utility data using ModelBuilderHow to create 3D drainage/utility model from CAD graphics or survey How to use the utility conflict detection tool How custom properties (UDX and/or Item Types) can be used to document and manage utility conflict status How to leverage the default and custom utility properties for reporting and data retention purposes	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
2:45 - 3:45	Civil 3D in the Cloud – Autodesk Construction Cloud / ACC	AtkinsRealis	As we use ProjectWise for our data management and collaboration efforts for most FDOT projects, Autodesk offers a similar tool for the same purpose: Autodesk Construction Cloud: ACC, a cloud-based platform that connects teams, data, and workflows across the lifecycle of a project. Let's dive into what this application can do for our Civil 3D projects, as well as the limitations when comparing with PW.	Novice - Expert	Civil 3D - ACC	PDH Credits : N/A
4:15 - 5:15	3D Deliverables for Model as a Legal Document: First Steps on First Coast Expressway	RS&H	Florida DOT recently began requiring submission of Model as a Legal Document (MALD) and signing and sealing of files related to earthwork calculations. One of the projects using Model as a Legal Document was a 4.4 mi. segment of the First Coast Expressway in Jacksonville, a $360 million greenfield highway construction project that included new construction, milling and resurfacing, excavation of unsuitable organic material, and surcharge embankment. For design, the budget was $5.5 million, the schedule was compressed to 12 months, and the team consisted of 5 firms. This presentation focuses on some of the challenges and lessons learned in creation of the required 3D Deliverables. While FDOT has a set of required 3D Deliverables, they do allow some flexibility in determining which files to sign and seal for the MALD. Work through the decision process on which files are best to sign and seal, then hear about workflows and obstacles to avoid when creating various 3D Deliverable surfaces, including: Existing Subgrade, Unsuitable Material, Subsoil Excavation, Surcharge Embankment, Proposed Finish Grade, Milling Surface and Proposed Subgrade. Some of these deliverables are new enough or rare enough that the workflows to create them have not been well documented, so this session will share what worked well for each deliverable on a project of this scale. With subsoil excavation, for example, the project shifted from traditional cross-section based markup to directly modeling 3D elements, surfaces, and closed meshes. Various teams took ownership of their areas. For example, structures 3D modeled bridges and walls, and these models were used to develop grading surfaces in these areas. ITS modeled grading pads; drainage modeled headwalls and ponds. Other challenges arose in generating 3D quantities in a manner that would provide consistent volumes between design and construction software. Usability by construction software was also a factor in determining best file formats to provide with the deliverables. This session is ideally suited for Designers, PMs, and Engineers of Record.	Novice - Expert	3D Models - Deliverables	PDH Credits : N/A
4:15 - 5:15	* OpenRoads - Creating Staged Cross Sections	Bentley	Discussion of need for staged cross sections, best practices and methods to achieve desired results.	Novice - Expert	OpenRoads Designer	PDH Credits : 1

4:15 - 5:15	* ** Construction Roadway Volume Verification for FDOT	Sitech	Using Trimble Business Center software – we will walk though importing FL DOT Roadway data for Construction volume verifications. We will also discuss the volume variables – such as original ground conditions (which can be verified by drones or other survey methods). This is a great educational class as well for any CEIs wanting to learn more of the connection from engineering to construction.	Novice - Expert	Trimble Business Center	PDH Credits : 1 PSM CE Credits : 1
4:15 - 5:15	MicroStation - Creating Tables and Reports	Bentley	In this MicroStation session, learn how to reduce error and improve accuracy by quantifying item types, edit items, use existing picklists, create various reports, spreadsheets and tables in the design. Find out how to edit existing tables and to add useful functions like table breaks, and much more.	Novice - Expert	MicroStation 2024	PDH Credits : N/A
4:15 - 5:15	OpenRoads - File Federation and Optimizing the Corridor	Bentley	Although processes will vary for each organization, project, and even discipline, the principles of file management remain the same. This presentation is geared towards guiding users towards the best practice for their organization, project, or discipline when it comes to federating files. The presentation will also cover several tips and tricks that can be leveraged to develop a modeling approach that best suits the project and deliverables.	Novice - Expert	OpenRoads Designer	PDH Credits : N/A
4:15 - 5:15	OpenRoads Designer and Civil 3D – What's the Difference	AtkinsRealis	As ORD continues evolving and developing more accurate tools to assist us with our design tasks, and Civil 3D becomes more relevant in our State, let's check within the main tools these applications offer their similarities and also differences to become proactive in both worlds, Autodesk and Bentley.	Novice - Expert	OpenRoads Designer - Civil 3D	PDH Credits : N/A
			WEDNESDAY WORKSHOP			
9:45 - 12:00	W-1-SC I Simultaneous Collaboration with Bluebeam Studio Sessions	DDSCAD	The ability to work together on the same PDF at the same time is a groundbreaking feature within Bluebeam Studio Sessions. It allows us to create markups and measurements that can be seen by our colleagues within seconds. Before uploading PDFs to a Studio Session, it's imperative that we prepare our PDFs with custom Status information and other data that can only be applied to PDFs that are found locally on our computers. This hands-on workshop covers best practices for working and communicating in Bluebeam Studio Sessions with our colleagues from around the world.	Novice - Expert	Bluebeam Studio	PDH Credits: N/A
9:45 - 2:30	* W-1-SC II OpenRoads - Intersection Design Part 1 - Horizontal and Vertical Geometry	Bentley	This course teaches tools and techniques that can be used to lay out a complex intersection. It will focus on the Horizontal and Vertical Geometry tools to create 2D and 3D geometric elements. In this course, you will be designing a complex intersection that includes turn lanes, median islands and turn lane islands. 2D horizontal geometry will be created using the Horizontal Geometry tools and Profiles and 3D elements will be created using the Vertical Geometry tools. The objective is to create a terrain model of the proposed pavement surface and analyze the proposed drainage contours.	Novice - Intermediate	OpenRoads Designer	PDH Credits: 3
9:45 - 12:00	* W-1-SH OpenRoads - Introduction to Creating Civil Cells Part 2 (3D Modeling Detailing) *NEW*	Bentley	This course teaches tools and techniques that can be used to create a detailed 3D civil cell. This is part two of Introduction to Creating Civil Cells (2D & 3D Geometry) and we will cover the 3D modeling related tools and processes to finish modeling the T-Intersection created in that course. We will also show how to use points as civil cell references in this course by building a Turn Lane Civil Cell.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
1:30 - 5:15	* W-2-SC I OpenBridge - 3D Drawing Production with OpenBridge Modeler	Bentley	This course teaches the general workflows for creating a general plan and elevation sheet from a 3D model along with creating a pier elevation and typical section.	Intermediate - Expert	OpenBridge Modeler	PDH Credits: 3
1:30 - 5:15	* W-2-SH OpenRoads - Drainage Plans, Profiles and Cross Sections *NEW*	Bentley	In this course, you will learn how to create and annotate plan, profile and cross section sheets. You will learn how to create Named Boundaries that will be used to generate plan, profile and cross section sheets. You will also learn about drawing models and sheet models that are used during the sheet creation process. Lastly, you will learn how to add individual annotations to label specific location coordinates, station-offset values, elevations, and more.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 3

2:45 - 5:15	* W-2-SC II OpenRoads - Intersection Design Part 2 - 3D Model Detailing	Bentley	This course teaches tools and techniques that can be used to accurately model a complex intersection in 3D. In this course, you will learn how to: Use Linear Templates to create the curb, sidewalk and side slope grading along the edges of pavement and islands. Use Surface Templates to apply material thickness to the pavement surface and median islands. Create a Finished Grade Terrain Model using Graphical Filters. Export Finished Grade Terrain Model to LandXML format.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
9:45 - 5:15	* W-1-H FDOTConnect 2024- Existing Modeling	ACEC-FDOT	This training course to go over the fundamentals of creating a 3D Model for existing features to include; hard surfaces (i.e. asphalt, concrete, sidewalks, curbs, etc…), utilities, drainage structures, and soil borings. Participants will be introduced to Bentley OpenRoads Designer Connect Edition – OpenRoads Technology tools for design and modeling; specifically for Florida Department of Transportation (FDOT) projects using the FDOTConnect 2024 Workspace.	Intermediate - Expert	FDOTConnect 2024 - OpenRoads Designer	PDH Credits: 5

THURSDAY OCTOBER 16th SESSIONS

Time	Title	Speaker	Description	Level	Software	PDH/PSM Credits
8:30 - 9:30	* ** Introduction to OpenRoads Designer	Bentley	Dedicated to beginner users, this session is an introduction to OpenRoads Designer capabilities. Learn how to leverage the tools in OpenRoads Designer to create comprehensive detailed design and documentation for roadway projects including surveying, drainage, subsurface utilities and visualization in one application.	Novice - Expert	OpenRoads Designer	PDH Credits : 1 PSM CE Credits : 1
8:30 - 9:30	FDOT FDOTConnect 2024 General Workspace Setup Configuration and Troubleshooting What's New! (Repeat)	FDOT	This session is an in-depth dive into the process of setting up, configuring and troubleshooting the FDOT workspace. This session will help the attendee to understand how the software is installed and what to do when things don't go as planned.	Intermediate - Expert	FDOTConnect 2024	PDH Credits : N/A
8:30 - 9:30	** Utility Coordination/Conflict Turnkey Relocation and Project Management	Badger / GeoPoint Surveying	This presentation will include: Management of activities required for utility relocation from coordination to completion. "The easy button"	Novice - Expert	Utility Coordination / Conflicts	PSM CE Credits : 1
8:30 - 9:30	* Tips and Tricks using OpenBridge - Part 1	Bentley	This is a review of our most common questions asked during our training classes. How to model multiple piers in the same support line, use of point controls in decks, unit definitions, etc.	Novice - Expert	OpenBridge Modeler	PDH Credits : 1
8:30 - 9:30	Introduction to ProjectWise Managed Workspace	Bentley	Learn about the importance of workspaces and how ProjectWise Managed Workspaces can assist with quality control of standards used in your projects. This session will aid in the understanding the groundwork for the FDOT managed workspace.	Novice - Expert	ProjectWise	PDH Credits : N/A
8:30 - 9:30	SYNCHRO Construction Solution	Bentley	An overview of the SYNCHRO portfolio, uses, and capabilities.	Novice - Expert	SYNCHRO	PDH Credits : N/A
9:45 - 10:45	Simplifying Signatures & Submittals with Bluebeam Revu	DDS CAD	While the digital signature and submittal process may seem daunting, it can be simplified by understanding the differences between key terminology like "Document Certification" and "Third-Party Authentication". In this presentation, we'll be discussing and demonstrating how to efficiently prepare your projects for submittal to cities and municipalities. Topics like Flattening, signature settings/recommendations, Batch Signature nuances, and how our signatures are always protected with "Click to view this version" will be reviewed.	Novice - Expert	Bluebeam Revu	PDH Credits : N/A
9:45 - 10:45	* OpenRoads - Item Type Fundamentals – Part 1	Bentley	In this session you will learn about the fundamentals of using Item Types in OpenRoads Designer. Topics include: Item Type Properties, Pick Lists, Custom Property Types, Calculated Properties, Expression Builder, Lookup Expression	Novice - Intermediate	OpenRoads Designer	PDH Credits : 1
9:45 - 10:45	** Utility Coordination/Conflict Paving the Way to Project success with Early Detection	Badger / GeoPoint Surveying	In this session, we will discuss Utility Conflicts locating, mapping and the project management of the conflicts.	Novice - Expert	Utility Coordination / Conflicts	PSM CE Credits : 1
9:45 - 10:45	* Tips and Tricks using OpenBridge - Part 2	Bentley	This is a continuation of the previous session. Bring your questions as we will dedicate time to answer your questions on anything OpenBridge.	Novice - Expert	OpenBridge Modeler	PDH Credits : 1
9:45 - 10:45	FDOT FDOTConnect 2024 ProjectWise Managed Workspace	FDOT / Bentley	The FDOT CADD Office has made several ProjectWise compatibility enhancements to accommodate corporate managed workspace configuration for the FDOTConnect 2024 release. This session will discuss the steps necessary to get it working in your environment.	Novice - Expert	FDOTConnect 2024 - ProjectWise	PDH Credits : N/A
9:45 - 10:45	Interrogating an iModel in SYNCHRO	Bentley	Tools such as Data Visualization, Civil Tools, and Clash Detection allow users to search, locate, and interrogate the model data in order to visualize and understand the project with more information available than traditional plans.	Novice - Expert	SYNCHRO	PDH Credits : N/A
11:00 - 12:00	* OpenRoads - All about creating Drainage Features	Bentley	In this session you will learn what you need and how do you create drainage features in OpenRoads Designer.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
11:00 - 12:00	* OpenRoads - Item Type Fundamentals – Part 2	Bentley	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 include: Item Types with Feature Definitions, Single Source of Truth, Propagation, Prioritization, Conflict Resolution, Asset Manager, Annotation and Labeling, Display Styles and Display Rules, Items Browser, Reporting.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1

11:00 - 12:00	* FDOT Quantities in OpenRoads Designer	3D Highway Engineering	In this session we will present the use of FDOT quantities from "A to Z".	Novice - Expert	OpenRoads Designer	PDH Credits : 1
11:00 - 12:00	FDOT FDOTConnect 2024 for OpenBridge Modeler Updates	FDOT	This sessions will highlight what's new for OpenBridge Modeler in FDOTConnect 2024.	Novice - Expert	FDOTConnect 2024	PDH Credits : N/A
11:00 - 12:00	What's new in ProjectWise and what's ProjectWise Cloud?	Bentley	In this session we will highlight ProjectWise and the ProjectWise cloud to see what benefits there are to implementing this latest version.	Novice - Expert	ProjectWise	PDH Credits : N/A
11:00 - 12:00	* Creating a Construction Model in SYNCHRO	Bentley	Not all models are ready for construction. Construction teams have needs for the model that are usually not addressed. Modeler allows organizations the ability to turn a design model into a construction model for QTO, improved sequencing and adding detailed WBS to the components. This allows for accurate model-based bids, more efficient scheduling, and detailed analysis of the work needed to complete the project.	Novice - Expert	SYNCHRO	PDH Credits : 1
1:30 - 2:30	* OpenRoads - Creating Drainage Reports	Bentley	In this presentation, you will learn how to create reports using FlexTables. You will learn how to customize the FlexTables to show the desired data fields and formatting for the reports. FlexTables show data for one type of element - a catch basin or a manhole for example. This sometimes presents a struggle when trying to create a combined drainage report. Therefore this presentation will also include a demonstration of creating drainage reports leveraging item types.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
1:30 - 2:30	* FDOT FDOTConnect 2024 Automated Quantities Troubleshooting and Custom Pay Items (Repeat)	FDOT	This session will explore how to use native Bentley ORD and FDOT workspace tools to visualize and troubleshoot and customize pay item information for quantities.	Novice - Expert	FDOTConnect 2024	PDH Credits : 1
1:30 - 2:30	Processing, uploading & managing reality data in iTwin Services	Bentley	Users can learn the basics of importing, processing and uploading reality data into Bentley iTwin Services. This session will also demonstrate how this data is then consumed across the different Bentley solutions within iTwin Services.	Novice - Expert	Bentley Reality Modeling	PDH Credits : N/A
1:30 - 2:30	* Civil 3D - Intersection Design - Crossing Intersections (Part 1)	DDS CAD	This is Part 1 of a 2 part session that covers Civil 3D - Intersections Design. We will explain and demonstrate how to create a crossing Intersection using Civil 3D's Create Intersection wizard. We'll also create connected alignments for an intersection and then create an intersection manually.	Intermediate - Expert	Civil 3D	PDH Credits : 1
1:30 - 2:30	Tips & Tricks for ProjectWise Users	Bentley	Learn more about the benefits of a ProjectWise deployment to assist you in enforcing corporate standards while producing timely deliverables for your customers.	Novice - Expert	ProjectWise	PDH Credits : N/A
1:30 - 2:30	* SYNCHRO Data Collection and Communication - Connecting to OpenRoads Designer	Bentley	Forms are used to collect project data and streamline communications with specific intent. Allowing decision-makers to quickly access the information and data in a single system to improve turn-around on decisions. Whether using out-of-the-box forms or configured forms and workflows. Field personnel have the ability to quickly communicate with Project and design teams. In addition, connecting ProjectWise and SYNCHRO allows these forms to be accessed directly in Bentley design applications such as MicroStation and OpenRoads designer.	Intermediate - Expert	SYNCHRO	PDH Credits : 1
2:45 - 3:45	MicroStation -Tips & Tricks, The Game Show Version	Bentley	In this highly interactive session you will learn the best tips and tricks gathered from our instructors and support colleagues. These tips and tricks cover a variety of topics in MicroStation.	Novice - Expert	MicroStation 2024	PDH Credits : N/A
2:45 - 3:45	* Making the Model More Visual Using the OpenRoads WorkSpace	Bentley	Learn how to increase the visual impact of your models with minimal effort using the OpenRoads Designer workspace. Create models using realistic materials, pavement markings, guardrail, barriers, fences, traffic control and more.	Novice - Expert	OpenRoads Designer	PDH Credits : 1
2:45 - 3:45	* ** Reality Modeling for Transportation Projects	Bentley	Leveraging Reality Modeling allowed users of a large-scale bridge and road construction site to monitor and quantify the construction progress resulting in the discovery of major differences in the areas between the design and the actual construction.	Novice - Expert	Bentley Reality Modeling	PDH Credits : 1 PSM CE Credits : 1
2:45 - 3:45	* Civil 3D - Intersection Design - Roundabouts, Cul-de-sacs and Knuckles Design (Part 2)	DDS CAD	This is Part 2 of the 2 part session that covers designing in Civil 3D a Roundabout using the Create Roundabout command. We'll also cover creating a Cul-de-sac at the end of an existing Corridor and Knuckle turn on an existing Corridor	Intermediate - Expert	Civil 3D	PDH Credits : 1
2:45 - 3:45	An Introduction to the I-Model Composition Server, ProjectWise Web, and ProjectWise Drive	Bentley	Learn how to automate PDFs based on your corporate standards while reviewing those PDF's via Bentley's improved web access or your local file explorer client.	Novice - Expert	ProjectWise	PDH Credits : N/A

2:45 - 3:45	* SYNCHRO 4D Models	Bentley	See how tying construction sequencing to a 3D model enhances communication, planning, and construction processes. 4D modeling allows users to visualize the construction process, virtually analyze sequencing in order to expose potential risks and issues prior to beginning the project. Thereby reducing risk, improving safety, and completing projects efficiently.	Intermediate - Expert	SYNCHRO	PDH Credits : 1
4:15 - 5:15	MicroStation -Tips & Tricks, The Game Show Version (Con't)	Bentley	In this highly interactive session you will learn the best tips and tricks gathered from our instructors and support colleagues. These tips and tricks cover a variety of topics in MicroStation.	Novice - Expert	MicroStation 2024	PDH Credits : N/A
4:15 - 5:15	* OpenRoads - Design and Model ADA Ramps	Bentley	Discover how OpenRoads Designer allows you to analyze, design, and model curb ramps. In this session, we will discuss how OpenRoads Designer can be used to evaluate existing curb ramps for regulatory compliance as well as streamlining the design of ramps to meet legal requirements.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
4:15 - 5:15	* OpenRoads - Best Practices for Civil Cells	Bentley	Civil cells allow for the rapid placement of geometry & 3D modeling that can be quickly modified to match project/site specific criteria. The development of the civil cells plays a large role in the flexibility of the cell. This presentation will share best practices to follow, as well as limitations you may encounter when developing civil cells.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
4:15 - 5:15	* ** Creating a Constructable Model for Machine Control and Field Layout	Trimble	Importing CAD data and 3D models into Trimble Business Center with the purpose of verifying the data is ready field applications. We will walk though best practices to create a “Constructable Model” for use in Machine Control systems and for Survey and Construction layout.	Novice - Expert	Trimble Business Center	PDH Credits : 1 PSM CE Credits : 1
4:15 - 5:15	Bentley ProjectWise Deliverables Management Overview and Best Practices	Bentley	This session will review some best practices from a Project Administrator Perspective on the setup and use of the Deliverables Management settings through the Project Portal and the Deliverables management Plugin.	Novice - Expert	ProjectWise	PDH Credits : N/A
4:15 - 5:15	The Future of AI in Civil Engineering: Lessons from FDOT Design Buddy	Dewberry	Artificial intelligence is rapidly changing how we design, review, and deliver transportation projects. In this session, we’ll take a look behind the scenes of FDOT Design Buddy, a custom GPT trained on FDOT manuals, and discuss where AI is headed for roadway engineering and other civil disciplines. Attendees will see current capabilities, potential future applications, and the opportunities and challenges AI brings to our profession.	Novice - Expert	AI - FDOT Design Buddy	PDH Credits : N/A
			THURSDAY WORKSHOP			
8:30 - 10:45	* **TH-1-SC I Locate Geometry in the Correct Place on Earth with MicroStation	Bentley	This courses will teach you how to incorporate a GCS to locate civil design geometry in the correct geographic location. We will define a GCS within our active model and leverage this GCS to place design graphics as well as incorporate data coming from other formats such as GIS shape files.	Intermediate - Expert	MicroStation 2024	PDH Credits : 2 PSM CE Credits : 2
8:30 - 10:45	TH-1-SC II OpenBuildings Designer: Modeling and BIM Essentials of a 3D Transit Station	Bentley	This hands-on session contains exercises for getting started with Bentley’s BIM solution, OpenBuildings Designer. The students will learn basic modeling techniques for working in a 3D environment and explore the workflow of creating an intelligent model for a small above ground transportation station. Exercises start with creating a conceptual block model, working with site files (geo-referencing), and then modeling columns, beams, walls, doors, windows, and curtain walls.	Novice - Intermediate	OpenBuilding Designer	PDH Credits: NA
8:30 - 10:45	** TH-1-SH OpenRoads - Geometry for Surveyors *NEW*	Bentley	In this module you will learn the basics of drawing geometry with the civil geometry tools. You will start by learning how to enter property information and create a subdivision parcel. You will then learn to create the centerline, edges of pavement and right of way geometry for the Subdivision Road. You will also learn how to place labels and annotate geometry.	Novice - Intermediate	OpenRoads Designer	PSM CE Credits: 2
11:00 - 2:30	* TH-2-SC I OpenBridge - Bridge Modeling 101	Bentley	Quickly model a bridge with the wizard and understand the assumptions made by the wizard and how to override them to achieve the desired model accuracy. Also, add approach slabs and other features to the model.	Intermediate - Expert	OpenBridge Modeler	PDH Credits: 2

11:00 - 2:30	* TH-2-SC II Building a Basic Model for Sites and Roads	Trimble	Introduction to Trimble Business Center (TBC) for Site creation and Road building. Importing Points, Building Surfaces, Calculating Volumes, Entering a Centerline and building a road template and surface.	Novice - Expert	Trimble Business Center - Modeling	PDH Credits: 2
11:00 - 2:30	** TH-2-SH OpenRoads - Regression for Surveyors *NEW*	Bentley	The project that we are going to undertake in this course is to create a Geometric Horizontal Alignment that follows, as closely as possible, the existing Surveyed centerline of a road using the regression tools available in OpenRoads Designer. A vertical alignment will be generated that follows the existing road profile, using the Best Fit Profile tool.	Intermediate - Expert	OpenRoads Designer	PSM CE Credits: 2
2:45 - 5:15	* TH-3-SC I OpenBridge - Advanced Bridge Modeling Techniques with OBM	Bentley	Utilize some of the lesser known tools in OBM like Place Advanced Deck, Assign Superelevation tool, Place Custom Abutment, Place Wingwall, Place Excavation, and Place Path.	Intermediate - Expert	OpenBridge Modeler	PDH Credits: 2
2:45 - 5:15	* TH-3-SC II OpenRoads - Creating and Managing Utilities *NEW*	Bentley	In this course, you will learn how to create existing utilities from graphics and how to detect utility conflicts.	Novice - Intermediate	OpenRoads Designer	PDH Credits: 2
2:45 - 5:15	* TH-3-SH OpenRoads - Road Regression and Re-Design *NEW*	Bentley	The Project that we are going to undertake in this course is to create a Geometric Horizontal Alignment that follows, as closely as possible, the existing Surveyed centerline of a road using the regression tools available in OpenRoads Designer. A vertical alignment will be generated that follows the existing road profile, using the Best Fit Profile tool. We will then create a corridor and apply an Overlay and Stripping template to create the whole road cross section. Following on from that we will apply a designed superelevation that matches as best we can the existing cross fall on the existing road. We will also try to minimize the amount of Overlay and Stripping required and finally produce quantities.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
8:30 - 5:15	*TH-1-H FDOTConnect 2024 - Drainage & Pond Design with 3D Modeling & Plans Development	ACEC-FDOT	This course was developed to introduce the Drainage and Utilities Workflow and OpenRoads Designer Connect Edition tools for drainage design and modeling on Florida Department of Transportation (FDOT) projects. The curriculum was developed within the FDOTConnect 2024 Workspace to provide sample exercises for many of the Drainage Tools on a sample project data set. Participants of this course will be introduced to the newest OpenRoads environment and a Workflow for designing two-dimensional (2D) Plans, Profiles, and three-dimensional (3D) Models for drainage-related Construction Deliverables.	Intermediate - Expert	FDOTConnect 2024 - OpenRoads Designer	PDH Credits: 6

FRIDAY OCTOBER 17th SESSIONS

Time	Title	Speaker	Description	Level	Software	PDH/PSM Credits
8:30 - 9:30	* OpenRoads - Templates Deconstructed	Bentley	In this session, you'll find out more about the template editor and structure so you can understand how to design better and more effective templates.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
8:30 - 9:30	* OpenRoads - Roundabout Modeling Part 1	Bentley	Modeling roundabouts is remarkably more complicated than a traditional intersection as the geometries and components that make up the roundabout are often unique. This presentation is part of a two-part series that will undoubtedly increase your knowledge of the different geometry and modeling tools available in OpenRoads, as well as how you can plan for the inevitable changes every project faces once the model is “complete”.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
8:30 - 9:30	3D QC : Developing Policy & Statements. How to create and implement effective Guidance Documents for 3D Design and Quality Control	RS&H	The transportation industry is undergoing a digital transformation, with the adoption of 3D design and quality control (QC) technologies that enable more efficient, accurate, and collaborative project delivery. However, the lack of consistent and comprehensive policy and standards for 3D QC poses a challenge for ensuring quality, compliance, and interoperability across different agencies, clients, and stakeholders. This presentation will share the process and outcomes of developing policy and standards for 3D QC within a large engineering firm that works on multiple transportation projects across the United States. It will highlight the importance of aligning the guidance documents with the current policies and deliverables required by the clients and owners, as well as the value-added by certain 3D design workflows that enhance the project performance and outcomes. It will also discuss the challenges and opportunities of balancing the need for localization and customization of policy and standards with the desire for establishing a reasonable “best practice” that can be used as a starting point for different projects and contexts. The presentation will demonstrate how the firm achieved group consensus and buy-in from various disciplines and teams, and how it implemented and monitored the policy and standards for 3D QC across its projects. The presentation will provide insights and lessons learned for other transportation professionals who are interested in developing and applying policy and standards for 3D QC in their own organizations and projects.	Novice - Expert	3D Modeling - QC	PDH Credits : N/A
8:30 - 9:30	** OpenRoads Survey - QuickStart for Survey	Bentley	This course is an introduction to the survey commands and tools. Learn how to create Field Books, import an ASCII file, edit data, use the decorations and view the terrain model.	Novice - Expert	OpenRoads Designer	PSM CE Credits : 1
8:30 - 9:30	Bentley Infrastructure Cloud - A Practical Overview with Case Studies	RS&H	Presentation focusing on practical applications of the Bentley Infrastructure Cloud. Project examples of deliverable management with comment resolution, 3D model reviews, and design validation. Form customization and workflows for project delivery and streamlined notifications	Novice - Expert	Bentley Infrastructure Cloud	PDH Credits : N/A
8:30 - 9:30	Introduction to OpenRoads ConceptStation	Bentley	This session will offer users an introduction to OpenRoads ConceptStation capabilities. Discover how to create conceptual designs to evaluate more options, identify high-risk items, and minimize costs during the planning and pre-bid stage of your project, within hours and not weeks!	Novice - Expert	OpenRoads ConceptStation	PDH Credits : N/A
9:45 - 10:45	* FDOT FDOTConnect 2024 Drainage in 11x17 World	FDOT	This presentation will demonstrate the new FDOT CADD tool for drainage annotation and review the changes made to the drainage plan sheets to accommodate the change from large format to 11x17 sheets.	Intermediate - Expert	FDOTConnect 2024	PDH Credits : 1
9:45 - 10:45	* OpenRoads - Roundabout Modeling Part 2	Bentley	Modeling roundabouts is remarkably more complicated than a traditional intersection as the geometries and components that make up the roundabout are often unique. This presentation is part of a two-part series that will undoubtedly increase your knowledge of the different geometry and modeling tools available in OpenRoads, as well as how you can plan for the inevitable changes every project faces once the model is “complete”.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
9:45 - 10:45	** OpenRoads Survey - Editing Link Code Features	Bentley	In this course you will learn how to review and edit survey linear features by adjusting Link Codes and Field Codes. You will also learn how to annotate the features after they have been edited.	Intermediate - Expert	OpenRoads Designer	PSM CE Credits : 1

9:45 - 10:45	GDOT Workspace Turbo Chargers: A Utilities Workspace and Title Block Editor	Phocaz	Find out how GDOT has modified their workspace to make design tasks easier, more accurate, and more efficient. This session highlights two utilitysolutions. The first is a standalone “Lite” workspace that streamlines workflows for utility owners. On the flip side are commands and solutions for daily SUE users. Learn how GDOT has added improved Feature placement and cell selection. Next up, learn more about Title Block Editor (TBE). Consultants and internal users are excited by this tool that makes editing project borders simple and painless.	Novice - Expert	BIM, CAD, Workspace	PDH Credits : N/A
9:45 - 10:45	** Photogrammetry processing for Point Clouds and Surface Creation	Sitech	Using Trimble Business Center software for drone and point cloud processing for local PCs. Using Propeller / Stratus software for uploading photos to the cloud for point cloud creation. We will discuss workflows and best practices and lessons learned in the field.	Novice - Expert	Trimble Business Center/Propeller	PSM CE Credits : 1
9:45 - 10:45	* **Introduction to OpenSite Designer	Bentley	Dedicated to beginner users, this session is an introduction to OpenSite Designer capabilities. Discover how to use the comprehensive, preliminary, and detailed design and documentation for site projects. These include surveying, drainage, subsurface utilities, earthwork optimization and visualization in one application.	Novice - Expert	OpenSite Designer	PDH Credits : 1 PSM CE Credits : 1
11:00 - 12:00	* OpenRoads Designer - Advanced Tips and Tricks for Sheet Seed Creation	Bentley	Over the past few years there have been numerous changes to the creation of sheet seed definition DGNLibs. In this presentation, we will explore the latest techniques and best practices for your project in OpenRoads Designer. Specifically, you will learn how to place multiple sheet seed definitions into the same DGNLib which will speed up workspace load times and increase speed when 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	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
11:00 - 12:00	* OpenRoads - Modeling Retaining Walls and Side Slopes	Bentley	Learn how OpenRoads Designer enhances your ability to model retaining walls. During this session, we will demonstrate practical examples showing how to use intelligent end conditions to include retaining walls along your projects. You will learn about the powerful capabilities that allow you to model walls and side slopes while adhering to engineering requirements. You will also discover how to extract useful data, such as profiles and quantities from the modeled walls and workflows to help you take advantage of modeling on your projects. Topics covered include: • Retaining wall and side slope templates • Creating retaining wall corridors and alignments • Displaying critical retaining wall features in profile • Creating retaining wall plan and profile sheets • Cut and fill wall modeling techniques • Abutment wall modeling techniques	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1

11:00 - 12:00	Digital Delivery: Unlocking the Full Potential of Data Across Model and Non-Model Workflows	WSB	We will explore how WSB is empowering owners, engineering partners, and contractors to leverage both model-centric and non-model-centric workflows for enhanced design and construction management. Our journey begins in the planning stage, utilizing tools such as OpenRoads Designer, OpenBridge Modeler, and Bentley Infrastructure Cloud to establish a comprehensive and current view of project data. Whether through rich 3D models or traditional data sources, we ensure continuous communication and alignment across all stakeholders. A key component of our approach is the use of interactive dashboards to track project progress and support accurate, real-time reporting. These dashboards consolidate data from models, schedules, field inputs, and documentation, enabling teams to monitor performance, identify risks, and make informed decisions throughout the project lifecycle. Our focus will be on practical, data-driven aspects including quantities, traffic management, design quality control, scheduling, constructability, and work planning. By integrating diverse data formats and workflows, we aim to demonstrate the industry's ongoing transformation—where entire project teams collaborate within a connected digital environment, whether through a digital twin or complementary data systems.	Intermediate - Expert	Digital Delivery	PDH Credits : N/A
11:00 - 12:00	** OpenRoads Survey - Editing Survey Features Using Point Lists	Bentley	This course focuses on how to easily correct erroneous survey linework by converting the Linking Code survey features to Point List Features and then editing the features. We will focus on converting Linking Code Features to Point List Features and then editing the Point List Features.	Intermediate - Expert	OpenRoads Designer	PSM CE Credits : 1
11:00 - 12:00	Civil Design Review Validation & Analysis with Bentley Infrastructure Cloud	Bentley	Digital project delivery, what it means to you, and the opportunity it offers to radically improve project delivery. Learn about the latest functionality in Bentley Infrastructure Cloud and how it can help your organization take the next step in transforming the way you design and deliver projects. Learn about: • The benefits of Civil Validation & Analysis in your review process • How Unified Digital Delivery can transform the way you design and deliver projects. • Smart Sheets	Novice - Expert	Bentley Infrastructure Cloud	PDH Credits : N/A
11:00 - 12:00	Introduction to OpenSite+ The New AI Version The future of Bentley Civil Applications	Bentley	This session will cover Bentley's new AI-Powered Site Planning and Design Software for Commercial, Industrial, and Residential Projects. This software is being built specifically for site engineering and is AI-powered to help engineers work smarter, not harder. OpenSite+ bridges the gap between conventional practices and modern digital methodologies so you can embrace digital innovation without sacrificing familiarity. Design with the familiarity of 2D in a 3D model, Concept to Final design in one platform, Bentley Infrastructure Cloud compatibility, Digital delivery and digital twin ready.	Novice - Expert	OpenSite+	PDH Credits : N/A
1:30 - 2:30	* 3D to 2D Rebar Detailing Plans Production with ProStructures	AtkinsRealis	This session will demonstrate how to take a 3D rebar model and produce the typical 2D detailing sheets for a bridge pier.	Intermediate - Expert	OBM - ProStructures	PDH Credits : 1
1:30 - 2:30	* OpenRoads- Drainage & Utilities - Tips and Tricks and new functionality added in recent releases	Bentley	In this session, Bentley drainage experts share useful tips, tricks and highlight some of the newer drainage & utilities tools that have been added to OpenRoads Designer over the past few releases.	Novice - Expert	OpenRoads Designer	PDH Credits : 1
1:30 - 2:30	* Advanced Use Cases for Item Types *NEW*	VHB	In this session, you will learn how Item Types can be used for complex operations to improve production and efficiency on your projects. You will learn about using string operations in item type expressions to perform automatic look ups from an excel worksheet, or extract numbers from strings to perform calculations. You will learn about setting up key properties between item types and excel, to enable lookup functions with multiple input combinations. Kyle Rosenmeyer from VHB will demonstrate a fully attributed project model, discuss use cases ranging from quantity calculations of every discipline, model reviews, embodied carbon, and more. You will also leave the session with an item type expression glossary, including over 1,000 expressions and properties to get you started. Previous experience with item types is recommended to get the most out of this session.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1

1:30 - 2:30	* ** FDOT Feature Manipulation Engine (FME) at FDOT *NEW*	FDOT	This session will introduce FME Form, FME Flow, and FME Data Inspector. FME by Safe Software is a data integration platform that efficiently manages spatial data by ingesting, transforming, and automating spatial workflows. We will learn the basics of building a workflow. FME supports numerous file formats, and for this session, we will focus on how FME can manipulate CAD formats such as DWG, DXF, and MicroStation DGN files. FME can read, write, and manipulate these formats while preserving both geometric and attribute information. This makes it ideal for converting CAD and DGN data into GIS-ready formats, automating updates, and integrating data into various projects. Through its simple visual interface and customizable workflows, FME enables users to handle complex transformations without coding, bridging the gap between CAD/DGN environments and GIS or other spatial data platforms.	Novice - Expert	FDOT - FME	PDH Credits : 1 PSM CE Credits : 1
1:30 - 2:30	* FDOT FDOT C3D 2026 Plan Production Workflows (Repeat)	FDOT	This session will focus FDOT C3D Plans Production. We will explain and demonstrate how to create an FDOT Civil 3D Project, Sheet Set (.dst) file, sheets, edit sheets and plotting. We will create and edit fields to make a custom sheet or edit the topics/fields to suit specific needs for FDOT title blocks.	Novice - Expert	FDOT C3D 2026	PDH Credits : 1
1:30 - 2:30	Python in MicroStation 2024	Bentley	In is sessions, discover how Python scripting is enhancing automation within MicroStation, unlock powerful new capabilities with access to extensive libraries and resources.	Intermediate - Expert	MicroStation 2024	PDH Credits : N/A
2:45 - 3:45	OpenRoads Designer Answer Hour	Bentley	In this session, Bentley OpenRoads Designer experts who will answer your questions and share useful tips and tricks.	Novice - Expert	OpenRoads Designer	PDH Credits : N/A
2:45 - 3:45	* ** OpenRoads - Understanding Terrain Models	Bentley	Learn about the tools and techniques for creating dynamic terrain models and best practices for managing multiple terrain models in this OpenRoads Designer session.	Novice - Expert	OpenRoads Designer	PDH Credits : 1 PSM CE Credits : 1
2:45 - 3:45	* OpenRoads - Parametric Cell Creation	Bentley	In this session you will learn about parametric controls and creating basic parametric cells.	Intermediate - Expert	OpenRoads Designer	PDH Credits : 1
2:45 - 3:45	* FDOT FDOTConnect 2024 Civil Plan Labeling (Repeat)	Bentley	This session will focus on FDOT's implementation of the Civil Labeler Tool in FDOTConnect 2024, as well as recent updates and future enhancements.	Novice - Expert	FDOTConnect 2024	PDH Credits : 1
2:45 - 3:45	Controlling the Display of Designs for Civil Designers	Bentley	In MicroStation 2024, there are many ways you can control how you view your designs. In this session, you learn how to control the display of levels in both the active and those of attached references. Set View Attributes by creating a Display Style that will be matched up to a Display Rule. You will then learn how to create a Clip Volume, which will limit the region that is displayed within a view to the area of that around the project site, and then finally preserving all these view settings through the creation of a Saved View.	Novice - Expert	MicroStation 2024	PDH Credits : N/A
2:45 - 3:45	Learn how to Manage & Share your Reality Data with 3DM Cloud/Publisher	Bentley	Discover how you can easily process, manage & share all of your reality data with the Orbit 3DM Cloud/Publisher Solution. Users will ber given insights into the solution and the workflows required to share all of their reality data.	Novice - Expert	Bentley Reality Modeling	PDH Credits : N/A
			FRIDAY WORKSHOP			
8:30 - 12:00	* F-1-SC I Modeling Rebar in 3D with OpenBridge Modeler/ProStructures *NEW*	AtkinsRealis	This workshop will demonstrate how to model rebar in 3D on a typical bridge pier. We will cover footing, column and cap reinforcement	Intermediate - Expert	OpenBridge Modeler - ProStructures	PDH Credits: 3
8:30 - 10:45	* F-1-SC II Getting Started with iTwin Capture Manage & Extract *NEW*	Bentley	Users can learn the basics of importing, processing and extracting some basic features from reality data. This workshop will also include the delivery of reality data into a user-friendly viewer.	Novice - Intermediate	Bentley Reality Modeling	PDH Credits: 2
8:30 - 12:00	* F-1-SH OpenRoads - Introduction to Drainage Layout and Hydraulics	Bentley	In this course we cover creating and designing a highway drainage system consisting of Inlets, Manholes, Outlets, Pipes, and Drainage Areas. Topics covered include placing drainage structures, placing drainage areas, placing drainage pipes and computing flows through the system. We will also cover creating profiles of the system	Novice - Expert	OpenRoads Designer	PDH Credits: 3

11:00 - 3:45	* F-2-SC II OpenRoads - Creating and Manipulating the Corridor	Bentley	In this course, you will create a roadway corridor and then explore the many tools and techniques to edit and manipulate the corridor. We will take a look at how to add multiple template drops along the corridor as you encounter intersections, driveways and turn lanes and how to edit and copy template drops in lieu of creating a new template. We will show how to make the corridor follow edge of pavement geometry using point controls and corridor references. You will learn how the secondary alignment tool aids in changing the direction of template processing as it applies to point controls and corridor reference elements. You will also learn how to use parametric constraints to override default template values for pavement depths, curb heights, shoulder slopes and ditch widths and how to use the clipping reference tool to clip out a portion of your corridor. We will take a look at how corridors interact with other corridors by learning how to use target aliasing to seek corridors. And finally we will show how to create end condition exceptions in areas that require a different type of end condition solution.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 3
1:30 - 3:45	* F-2-SC I OpenRoads - ConceptStation *NEW*	Bentley	This course is an introduction to the OpenRoads ConceptStation software. In this course you will learn how to import data for existing conditions, and how to create conceptual roadway designs that include road corridors and their interactions with intersections, bridges and ramps, including lighting, guardrail and street markings.	Novice - Intermediate	OpenRoads ConceptStation	PDH Credits: 2
1:30 - 3:45	* F-2-SH OpenRoads - Editing and Managing Geometry *NEW*	Bentley	There are many tools to edit civil geometry in OpenRoads Designer and understanding how to use them is critical to maintain the rules and relationships between geometric elements. In this workshop, we will take a look at various tools and techniques for editing civil geometry.	Intermediate - Expert	OpenRoads Designer	PDH Credits: 2
8:30 - 3:45	* F-1-H FDOTConnect 2024 - Roadway Design 3D Modeling	ACEC-FDOT	This training course to include fundamentals of 3D Modeling. Participants will continue to learn the Bentley OpenRoads Designer Connect Edition tools for design and modeling within the FDOTConnect 2024 workspace.	Intermediate - Expert	FDOTConnect 2024 - OpenRoads Designer	PDH Credits: 5