



Florida Local Users' Group

2019 FLUG Training Forum

October 8th – October 11th, 2019

Cocoa Beach, FL



FINAL AGENDA

2019 FLUG Training Forum Sessions Include:

FDOT OpenRoads Workflows
Bentley OpenRoads
Bentley OpenBridge
Autodesk InRoads 360
MicroStation
TopoDOT
Construction

LumenRT/Context Capture
Reality Modeling
LiDAR
Drainage
Bentley ProjectWise
Bentley Site Design
Survey

FDOT Civil 3D Workflows
Autodesk Civil 3D
FDOT Traffic Plans
SubSurface Utility
Drone Technology
Navigator
Automated Machine Guidance

Professional Development and PSM Continuing Education Hours:

General Sessions and Workshops denoted with " * " indicates PDH credits available.

General Sessions and Workshops denoted with " ** " indicate PSM CE credits available.

PDH and CE credits are offered one (1) credit per one (1) hour of class. Attendees must sign the PDH or CE credit sheet(s) upon completion of the session or workshop to receive credit. Professional Credit Certificates for both Florida PE's and PSM's will be available from Your Account on the FLUG website upon processing AFTER FLUG.

2019 FLUG TRAINING FORUM Daily Overview

TUESDAY Oct. 8	7:00 - 8:30 Sea Oats / Seagrapes	Registration and Breakfast
	8:00 - 8:15 Sea Oats	Welcome with Opening Announcements
	8:30 - 5:15	General Sessions and Hands-On Workshops
WEDNESDAY Oct. 9	7:00 - 8:30 Sea Oats / Seagrapes	Registration and Breakfast
	8:00 - 8:15 Sea Oats	Welcome with Opening Announcements
	8:15 - 9:15 Sea Oats	Key Note: The Future of Engineering Technology <i>Presented by Bentley Systems - Dustin Parkman - Vice President of Civil Infrastructure</i>
	9:45 - 5:15	General Sessions and Hands-On Workshops
THURSDAY Oct. 10	7:00 - 8:30 Sea Oats / Seagrapes	Registration and Breakfast
	8:00 - 8:15 Sea Oats	Welcome with Opening Announcements
	8:30 - 5:15	General Sessions and Hands-On Workshops
	6:30 - 9:30 <i>Tiki Bar</i>	<i>Evening Social: Refreshments Served!</i> <i>Presented by FLUG and Our Partners</i>
FRIDAY Oct. 11	7:00 - 8:30 Sea Oats / Seagrapes	Registration and Breakfast
	7:30 - 7:45 Sea Oats	Welcome with Opening Announcements
	8:30 - 3:45	General Sessions and Hands-On Workshops

2019 FLUG Training Forum
General Sessions and Hands-On Workshops
Tuesday - Oct 8

	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	WORKSHOP	WORKSHOP	WORKSHOP	WORKSHOP
	MicroStation	OpenRoads	FDOT Civil 3D	OpenBridge	Site / ConceptStation / OpenRoads	General	OpenRoads	Civil 3D	MicroStation	FDOT OpenRoads
	Dunes (60)	Sea Oates (120)	Sawgrass (60)	Starfish (30)	Sand Dollar (30)	Sundial (20)	Sandcastle I (20)	Sandcastle II (20)	Seahorse (20)	Horizon (40)
8:30-9:30	Introducing the MicroStation CONNECT Edition Bentley <i>Dave Mayer</i>	* Harnessing the Power of Civil Geometry Bentley <i>Christiana Holmes</i>	FDOT CADD Support, CADD Manual and Training Updates, and FAQ's FDOT <i>Matt Sexton</i>	BIM for Bridges: The New OpenBridge Designer Bentley <i>Alex Mabrich</i>	* Site Modeling in OpenRoads Designer Bentley <i>Bob Rolle</i>	* Planes, Trains and Automobile with Vehicle Tracking – How to use Autodesk Vehicle Tracking Applied Software <i>Ken Driscoll</i>	* T-1-SC I Introduction to OpenRoads Designer for GEOPAK, InRoads, and MXROAD Users Bentley <i>Jimmie Prow</i>	* T-1-SC II QuickStart – Introduction to Civil 3D for FDOT Projects CW3 Engineering, Inc. <i>Jason Panicaro</i>	* T-1-SH Practical Intersection Design and Modeling Bentley <i>Sonya Pieterse</i>	* T-1-H FDOT Design and 3D Modeling with Plans Development for OpenRoads Designer FDOT <i>OpenRoads Team</i>
15 Min	BREAK									
9:45-10:45	Drawing with MicroStation for Civil Designers Bentley <i>Dave Mayer</i>	* OpenRoads Best Practice - Terrain Modeling Bentley <i>Christiana Holmes</i>	FDOT Civil 3D - Updates and Tips and Tricks FDOT <i>Mike Racca</i>	OpenBridge Designer Development Updates Bentley <i>Alex Mabrich</i>	* New Site Design Workflows Make for Better Projects Bentley <i>Bob Rolle</i>	Take Control of Your CONNECT and V8i Reference Files! Axiom <i>Eiren Smith</i>				
15 Min	BREAK									
11:00-12:00	Controlling the Display of Designs for Civil Designers Bentley <i>Dave Mayer</i>	* Managing Civil Geometry from Simple to Complex Bentley <i>Christiana Holmes</i>	* FDOT Civil 3D - Existing Feature Modeling FDOT <i>Mike Racca</i>	* OpenBridge Designer for Segmental Bridges Bentley <i>Alex Mabrich</i>	* Conceptualize and Communicate Your Road Design with OpenRoads ConceptStation Bentley <i>Jimmie Prow</i>	** Taking Field Notes To A New Level! Pigeon-Roberts & Associates <i>Roy Foren</i>	* T-2-SC I Beyond Centerline Geometry Bentley <i>Bob Rolle</i>			
1 1/2 Hr	LUNCH									
1:30-2:30	Printing and Publishing Bentley <i>Dave Mayer</i>	* Modeling a Complete Intersection in Minutes Bentley <i>Christiana Holmes</i>	* FDOT Civil 3D - Driveway and Ramp Modeling FDOT <i>Mike Racca</i>	* Plans Production with OpenBridge Designer Bentley <i>Alex Mabrich</i>	Conveying Asset Management with OpenRoads Designer Bentley <i>Jimmie Prow</i>	* Integrating LiDAR and Image data for Bridges in the Bentley environment TopoDOT <i>Michael Cook</i>		** T-2-SC II A Whole new "Field to Finish" - Civil 3D Survey Prosoft <i>Shawn Herring</i>		
15 Min	BREAK									
2:45-3:45	The MicroStation CONNECT Edition - Configuration 101 Bentley <i>Steve Rick</i>	* Modeling Tips, Tricks, and Techniques Bentley <i>Christiana Holmes</i>	* FDOT Traffic Design Tools in FDOT Civil 3D FDOT <i>Randy Roberts</i>	* ProConcrete Workflow with OpenBridge Designer Bentley <i>Alex Mabrich</i>	* Seeing is Believing: Getting the Most Out of OpenRoads Designer Visualization Bentley <i>Kevin Jackson</i>	Migrating Programs to MicroStation CONNECT and OpenRoads Phocaz, Inc. <i>Mark Stefanchuk</i>	* T-3-SC I Using Civil Cells in OpenRoads Designer Bentley <i>Bob Rolle</i>		T-2-SH QuickStart for MicroStation CONNECT Edition for Existing Users Bentley <i>Dave Mayer</i>	
30 Min	"Snack with the SUPPORT PARTNERS!"									
4:15-5:15	MicroStation CONNECT Edition - Ask the Instructor Bentley <i>Steve Rick</i>	Simply Faster: Increasing Your Productivity with OpenRoads Designer Bentley <i>Sonya Pieterse</i>	* Automated Quantities updates in FDOT Civil 3D FDOT <i>Randy Roberts</i>	BRIM Analytical Update Bentley <i>Alex Mabrich</i>	* BIM Up Your Projects with OpenRoads Bentley <i>Kevin Jackson</i>	* Solid Modeling using Autodesk Inventor for Bridge and Drainage 5D Consulting <i>Paul Carter</i>				

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2019 FLUG Training Forum
General Sessions and Hands-On Workshops
 Wednesday - Oct 9

	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	WORKSHOP	WORKSHOP	WORKSHOP	WORKSHOP
	Reality Modeling Dunes (60)	FDOT OpenRoads Sea Oates (120)	Civil 3D Sawgrass (60)	Subsurface Utilities Starfish (30)	OpenRoads / LiDAR / Construction Sand Dollar (30)	InfraWorks Sundial (20)	FDOT OpenRoads Sandcastle I (20)	FDOT Civil 3D Sandcastle II (20)	OpenBridge Seahorse (20)	OpenRoads Horizon (40)
9:45-10:45	What's new in ContextCapture Bentley <i>Kurt Rasmussen</i>	* FDOT Traffic Design Tools for FDOT OpenRoads Designer FDOT <i>Matt Sexton</i>	* Civil 3D Tips, Tricks and Troubleshooting IMAGINiT Technologies <i>Leo Lavayen</i>	Under the Hood: Configuring Subsurface Utility Annotation in OpenRoads Designer Bentley <i>Christiana Holmes</i>	* RRR Design & Modeling with OpenRoads 3D Highway Engineering <i>Richard Perez</i>	* InfraWorks 360 Essentials – The "New Kid" on the Block Applied Software <i>Ken Driscol</i>	* **W-1-SC I FDOT Survey and Existing Features for OpenRoads Designer FDOT <i>J. Hazlip / C. Thorp</i>	* W-1-SC II Automated Quantities with FDOT Civil 3D FDOT <i>Randy Roberts</i>	* W-1-SH Custom Abutments with Functional Components Bentley <i>Alex Mabrich</i>	* W-1-H QuickStart for OpenRoads Designer Geometry Bentley <i>Jimmie Prow</i>
15 Min	BREAK									
11:00-12:00	* Reality Modeling for Transportation Projects Bentley <i>Kurt Rasmussen</i>	3D Deliverables for Automated Machine Guidance (AMG) FDOT <i>Taylor Carlquist</i>	↓	* Designing Dry Subsurface Utilities Bentley <i>Christiana Holmes</i>	↓	* InfraWorks 360 Roadway Design Fasten Your Seatbelts! Applied Software <i>Ken Driscol</i>	↓	↓	↓	↓
1 1/2 Hr	LUNCH									
1:30-2:30	* Civil and Reality Modeling Integration Bentley <i>Kurt Rasmussen</i>	* FDOT OpenRoads - Design and Modeling FDOT <i>Todd Holt</i>	"Under Pressure" Civil 3D Pressure Pipes CW3 Engineering, Inc. <i>Jason Panicaro</i>	* Hitting the Target: Modeling Against Subsurface Strata Bentley <i>Kevin Jackson</i>	A Business Case for LiDAR in Road Rehab Design 5D Consulting <i>P. Funk/L. Donelson</i>	↓	* W-2-SC I FDOT Traffic Plans and Automated Quantities for OpenRoads Designer FDOT <i>K. Daffin / R. Roberts</i>	* W-2-SC II FDOT RRR Design with Civil 3D FDOT <i>Mike Racca</i>	* W-2-SH OBM to Leap Bridge Concrete and LEAP Bridge Steel and back Bentley <i>Alex Mabrich</i>	* W-2-H QuickStart for OpenRoads Designer Corridor Modeling Bentley <i>Bob Rolle</i>
15 Min	BREAK									
2:45-3:45	Combining Aerial Imagery and Ground Imagery in a Reality Model Bentley <i>Kurt Rasmussen</i>	* FDOT OpenRoads - Plan Development Workflow FDOT <i>Todd Holt / Chris Thorp</i>	Point Styles On Steroids Pigeon-Roberts & Associates <i>Roy Foren</i>	* Exploring gINT and gINT Civil Tools Bentley <i>Kevin Jackson</i>	* Emerging Technologies for virtual construction & application of the intelligent 3D model Trimble <i>S. Bridges/A. Patane</i>	Using the Autodesk AEC Collection: Drone to Point Cloud to usable Surface IMAGINiT Technologies <i>Leo Lavayen</i>	↓	↓	↓	↓
30 Min	"Snack with the SUPPORT PARTNERS !"									
4:15-5:15	How to Capture Data to Create a Reality Model Bentley <i>Kurt Rasmussen</i>	* Superelevation and Design Criteria with FDOT OpenRoads Designer FDOT <i>John-Mark Palacios</i>	↓	Ask an Expert - Subsurface Utilities Q&A Bentley <i>Christiana Holmes</i>	* OpenRoads Templates: Tips and Tricks RS&H <i>Andrew Poszich</i>	Leveraging GIS Data : Using InfraWorks IMAGINiT Technologies <i>Leo Lavayen</i>	↓	↓	↓	↓

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2019 FLUG Training Forum
General Sessions and Hands-On Workshops
 Thursday - Oct 10

	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	WORKSHOP	WORKSHOP	WORKSHOP	WORKSHOP
	MicroStation	OpenRoads	Civil3D / Drone	Survey	iModel Hub / Digital iTwins / General	ProjectWise	MicroStation / Trimble	Civil 3D	OpenRoads Drainage / OpenBridge	OpenRoads / MicroStation
	Dunes (60)	Sea Oates (120)	Sawgrass (60)	Starfish (30)	Sand Dollar (30)	Sundial (20)	Sandcastle I (20)	Sandcastle II (20)	Seahorse (20)	Horizon (40)
8:30-9:30	MicroStation CONNECT Edition: What's New and Improved? Bentley <i>Steve Rick</i>	Ask an Expert - Setting up Annotation in OpenRoads Designer Q&A Bentley <i>Jimmie Prow</i>	Drone Data and Real World applications through Autodesk and Bentley CONSOR Engineers <i>Oscar Castaneda</i>	** Survey Guidelines and Deliverables for FDOT OpenRoads and Civil 3D FDOT <i>John Hazlip</i>	Digital iTwins with iModel Hub Bentley <i>JP Gauthier</i>	What's New in ProjectWise Bentley <i>Rob Riley</i>	TH-1-SC I MicroStation CONNECT Edition Upgrade for CAD Managers - Configuration Bentley <i>Dave Mayer</i>	* TH-1-SC II Civil 3D: Corridor Modeling- Road Design Fundamentals Applied Software <i>Ken Driscoll</i>	* TH-1-SH Evaluating and Laying Out a Storm Network Bentley <i>Christiana Holmes</i>	* TH-1-H Practical Intersection Design and Modeling (Repeat) Bentley <i>Sonya Pieterse</i>
15 Min	BREAK									
9:45-10:45	Introduction to Parametrics and Constraints Bentley <i>Steve Rick</i>	* Computing Earthwork Volumes with OpenRoads Designer Bentley <i>Jimmie Prow</i>	* Solid Modeling using Autodesk Inventor for Bridge and Drainage (Repeat) 5D Consulting <i>Paul Carter</i>		Introducing iTwin Design Review Bentley <i>Taylor Gilmore</i>	Simplify Administration with ProjectWise CONNECT Edition Bentley <i>Rob Riley</i>				
15 Min	BREAK									
11:00-12:00	Reporting on Elements in the MicroStation CONNECT Edition Bentley <i>Steve Rick</i>	* Modeling ADA Compliant Ramps Bentley <i>Kevin Jackson</i>	From Flight to Finish – The latest in Drone Technology w/ 3DR site scan - FLIGHT Prosoft <i>S. Herring / B. Monsen</i>	** An Introduction to OpenRoads Designer Survey Bentley <i>Jimmie Prow</i>	Bentley Construction Bentley <i>Bob Rolle</i>	Configuring Your ProjectWise Project Bentley <i>Rob Riley</i>			* TH-2-SH Detailing of Bridge Elements using ProStructures Bentley <i>Alex Mabrich</i>	
1 1/2 Hr	LUNCH									
1:30-2:30	Manipulating and Modifying Elements Bentley <i>Steve Rick</i>	Ask an Expert - OpenRoads Designer Drawing Production Q&A Bentley <i>Jimmie Prow</i>	From Flight to Finish – The latest in Drone Technology w/ 3DR site scan - FINISH Prosoft <i>S. Herring / B. Monsen</i>	** Under the Hood: Survey Annotation Bentley <i>Kevin Jackson</i>	Capture and Manage your Field Photos - PhotogeoDGN and PhotogeoDWG Phocaz, Inc. <i>Mark Stefanchuk</i>	Field to Office using Navigator and Issues Resolution Bentley <i>Rob Riley / JP Gauthier</i>		* TH-2-SC II Civil 3D: Dynamic Corridor Cross Sections IMAGINIT Technologies <i>Leo Lavayen</i>		
15 Min	BREAK									
2:45-3:45	Customizing the MicroStation CONNECT Edition Bentley <i>Dave Mayer</i>	Ask an Expert - OpenRoads Designer Modeling Q&A Bentley <i>Jimmie Prow</i>	CAD Managers Tips and Tricks for Civil 3D and InfraWorks CAD Department <i>Nicholas Edwin</i>	** Ask an Expert - Moving SMD/XMLs or XINs to OpenRoads Designer Survey Bentley <i>Kevin Jackson</i>	Moving Forward With OpenRoads Designer RS&H <i>Andrew Poszich</i>	Using Managed Workspaces with Open Roads Designer Bentley <i>Rob Riley / JP Gauthier</i>	* TH-2-SC I DOT Volume calculations and Machine Control Data Prep Trimble/Sitech <i>Mike Eason</i>		* TH-3-SH OpenBridge Designer and LumenRT Bentley <i>Alex Mabrich</i>	TH-2-H Train the Trainer Master Class: MicroStation CONNECT Edition QuickStart for Existing Users Bentley <i>Steve Rick</i>
30 Min	"Snack with the SUPPORT PARTNERS !"									
4:15-5:15	MicroStation CONNECT Edition - Ask the Instructor (Repeat) Bentley <i>Dave Mayer</i>	OpenRoads Geometry - Where are my COGO Tools? Bentley <i>Christiana Holmes</i>	* 3D Driveway Modeling in Civil 3D FDOT <i>Mike Racca</i>	** Ask an Expert - Survey Q&A Bentley <i>Kevin Jackson</i>	* Integrating LiDAR and Image data for Bridges in the Bentley Environment (Repeat) TopoDOT <i>Michael Cook</i>	Ask an Expert - ProjectWise with OpenRoads Designer Q&A Bentley <i>Rob Riley / JP Gauthier</i>				

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2019 FLUG Training Forum
General Sessions and Hands-On Workshops
 Friday - Oct 11

	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	GENERAL SESSION	WORKSHOP	WORKSHOP	WORKSHOP	WORKSHOP
	MicroStation / Reality Modeling Dunes (60)	OpenRoads Sea Oates (120)	FDOT Sawgrass (60)	Civil 3D Starfish (30)	OpenRoads Drainage Sand Dollar (30)	General Sundial (20)	FDOT OpenRoads Sandcastle I (20)	TopoDOT / OpenRoads Sandcastle II (20)	Reality Modeling / Open Roads Survey Seahorse (20)	FDOT OpenRoads Horizon (40)
8:30-9:30	Introducing the MicroStation CONNECT Edition (Repeat) Bentley <i>Dave Mayer</i>	Clash Detection - Your Chance to be the Hero Bentley <i>Sonya Pieterse</i>	* FDOT Bridge Modeling in OpenBridge Modeler FDOT <i>Dongming White</i>	FDOT Civil 3D - Updates and Tips and Tricks FDOT <i>Mike Racca</i>	* Under the Surface with Subsurface Utilities Bentley <i>Christiana Holmes</i>	Link Excel and Word into Revit, MicroStation and AutoCAD! Axiom <i>Eiren Smith</i>	* F-1-SC I FDOT Traffic Plans and Automated Quantities for OpenRoads Designer (Repeat) FDOT <i>K. Daffin / R. Roberts</i>	* F-1-SC II TopoDOT - Feature Extraction - Newer and Important Tools - Best Practices / Q&A TopoDOT <i>Michael Cook</i>	* F-1-SH Creating Reality Models and Integrating them into Civil Designs Bentley <i>Kurt Rasmussen</i>	* F-1-H FDOT Design and 3D Modeling with Plans Development for OpenRoads Designer (Repeat) FDOT <i>OpenRoads Team</i>
15 Min	BREAK									
9:45-10:45	Controlling the Display of Designs for Civil Designers (Repeat) Bentley <i>Dave Mayer</i>	* Creating and Managing Plan, Profile, and Cross Section Drawings Bentley <i>Jimmie Prow</i>	* Drainage Design and Modeling with FDOT OpenRoads Designer and SUDA FDOT <i>J. Oestreich / A. Shepard</i>	* Superelevation and Design Criteria with FDOT Civil 3D FDOT <i>John-Mark Palacios</i>	* Designing and Extending Culverts Bentley <i>Christiana Holmes</i>	First Coast Expressway: Lessons Learned on the 22 Mile Path to OpenRoads RS&H <i>Andrew Poszich</i>				
15 Min	BREAK									
11:00-12:00	The MicroStation CONNECT Edition - Configuration 101 (Repeat) Bentley <i>Steve Rick</i>	* Modeling Techniques - Ramps and Gores Bentley <i>Bob Rolle</i>	3D Project Review : Tips and Tricks for Reviewers FDOT <i>M. Sexton / V. Danforth</i>	* Pipe Networks in Civil 3D Applied Software <i>Ken Driscoll</i>	* Using Subsurface Utility Quality Control Tools to Ensure 100% Confidence Bentley <i>Christiana Holmes</i>	Storm and Sanitary Analysis 101 (SSA) - Getting started CAD Department <i>Nicholas Edwin</i>				
1 1/2 Hr	LUNCH									
1:30-2:30	* Utilizing Descartes for Ground Extraction of Reality Meshes and Point Clouds Bentley <i>Kurt Rasmussen</i>	* Modeling Techniques - Retaining Walls, Benching, and Complex End Conditions Bentley <i>Kevin Jackson</i>	3D Engineered Model Project Reviews: Virtual Reality, Augment Reality and Mixed Realities for Production FDOT <i>Matt Sexton</i>	Leveraging GIS Data Part 1 : Using Map 3D IMAGINIT Technologies <i>Leo Lavayen</i>	* QuickStart - Laying out a Drainage Network in OpenRoads Designer Bentley <i>Sonya Pieterse</i>	** Surveying the World - Importing Survey Field Book Data into Civil 3D CW3 Engineering, Inc. <i>Jason Panicaro</i>	* ** F-2-SC I FDOT Survey and Existing Features for OpenRoads Designer (Repeat) FDOT <i>J. Hazlip / J.M. Palacios</i>	* F-2-SC II Creating and Manipulating the Corridor Bentley <i>Jimmie Prow</i>	* F-2-SH Evaluating and Laying Out a Storm Network (Repeat) Bentley <i>Christiana Holmes</i>	
15 Min	BREAK									
2:45-3:45	* Reality Modeling for Transportation Projects (Repeat) Bentley <i>Kurt Rasmussen</i>	* OpenRoads Best Practice - Making the Model More Visual Bentley <i>Kevin Jackson</i>	* Automated Quantities updates in OpenRoads Designer FDOT <i>Kandi Daffin</i>	Leveraging GIS Data Part 2 : Using Civil 3D IMAGINIT Technologies <i>Leo Lavayen</i>	* Pond Design: Layout and Hydraulics Bentley <i>Sonya Pieterse</i>	Autodesk Vault - A must tool for anyone who uses Autodesk products and Microsoft office CAD Department <i>Nicholas Edwin</i>				

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