



# Florida Local Users' Group

## 2019 FLUG Training Forum

October 8<sup>th</sup> – October 11<sup>th</sup>, 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

## 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	<b>Key Note: The Future of Engineering Technology</b> <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
	<b>6:30 - 9:30</b> <i>Tiki Bar</i>	<b><i>Evening Social: Refreshments Served!</i></b> <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
	7:45 - 8:15	<b>TechTalk: Embracing the Change</b> <i>Presented by IMAGINiT-Harvey Pruit</i>
	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 (15)	Sandcastle II (15)	Seahorse (15)	Horizon (30)
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  David Douglas <i>Jason Panicaro</i>	T-1-SH MicroStation Quick Reference Guide for AutoCAD and MicroStation Users  Bentley <i>Steve Rick</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>Ray Filipiak</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>Sonya Pieterse</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>Christiana Holmes</i>	Taking Field Notes To A New Level!  Pigeon-Roberts & Associates <i>Ray Foren</i>	* T-2-SC I Beyond Centerline Geometry  Bentley <i>Ray Filipiak</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>Sonya Pieterse</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 Group <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	FDOT OpenRoads	Civil 3D	Subsurface Utilities	OpenRoads / LiDAR / Construction	InfraWorks	OpenRoads	FDOT Civil 3D	OpenBridge	FDOT OpenRoads
	Dunes (60)	Sea Oates (120)	Sawgrass (60)	Starfish (30)	Sand Dollar (30)	Sundial (20)	Sandcastle I (15)	Sandcastle II (15)	Seahorse (15)	Horizon (30)
9:45-10:45	What's new in ContextCapture  Bentley <i>Kurt Rasmussen</i>	* FDOT Traffic Design Tools for FDOT OpenRoads Designer  FDOT <i>Kandi Daffin</i>	* Civil 3D Tips, Tricks and Troubleshooting  ASI + 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 QuickStart for OpenRoads Designer Geometry  Bentley <i>Jimmie Prow</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 FDOT Survey and Existing Features for OpenRoads Designer  FDOT <i>OpenRoads Team</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>Ray Filipiak</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  David Douglas <i>Jason Panicaro</i>	* Hitting the Target: Modeling Against Subsurface Strata  Bentley <i>Ray Filipiak</i>	A Business Case for LiDAR in Road Rehab Design  5D Consulting <i>P. Funk/L. Donelson</i>	↓	* W-2-SC I QuickStart for OpenRoads Designer Corridor Modeling  Bentley <i>Kevin Jackson</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 FDOT Traffic Plans and Automated Quantities for OpenRoads Designer  FDOT <i>K. Daffin / R. Roberts -</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>Ray Foren</i>	* Exploring gINT and gINT Civil Tools  Bentley <i>Bob Rolle</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  ASI + 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 Tempaltes: Tips and Tricks  RS&H <i>A. Poszich/J. Williams</i>	Leveraging GIS Data : Using InfraWorks  ASI + 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 2.0 - Navigator / General	ProjectWise	OpenRoads / Trimble	Civil 3D	OpenRoads Drainage / OpenBridge	MicroStation
	Dunes (60)	Sea Oates (120)	Sawgrass (60)	Starfish (30)	Sand Dollar (30)	Sundial (20)	Sandcastle I (15)	Sandcastle II (15)	Seahorse (15)	Horizon (30)
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>Bob Rolle</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>	iModel 2.0 and the iModel Hub  Bentley <i>Ray Filipiak</i>	What's New in ProjectWise  Bentley <i>Rob Riley</i>	* TH-1-SC I Practical Intersection Design and Modeling  Bentley <i>Sonya Pieterse</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 MicroStation CONNECT Edition Upgrade for CAD Managers - Configuration  Bentley <i>Dave Mayer</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 Bentley Navigator 10.2  Bentley <i>Ray Filipiak</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>Bob Rolle</i>	Using iModel Hub and Bentley Navigator for Quality Control  Bentley <i>Ray Filipiak</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>Bob Rolle</i>	Capture and Manage your Field Photos - PhotogeoDGN and PhotogeoDWG  PHOCAZ <i>Mark Stefanchuk</i>	Field to Office using Navigator and Issues Resolution  Bentley <i>Rob Riley</i>		* TH-2-SC II Civil 3D: Dynamic Corridor Cross Sections  ASI + 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>A. Poszich/J. Williams</i>	Using Managed Workspaces with Open Roads Designer  Bentley <i>Rob Riley</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  CONSOR Engineers <i>Oscar Castaneda</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</i>				

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

	GENERAL SESSION MicroStation / Reality Modeling Dunes (60)	GENERAL SESSION OpenRoads Sea Oates (120)	GENERAL SESSION FDOT Sawgrass (60)	GENERAL SESSION Civil 3D Starfish (30)	GENERAL SESSION OpenRoads Drainage Sand Dollar (30)	GENERAL SESSION General Sundial (20)	WORKSHOP TopoDOT / OpenRoads Sandcastle I (15)	WORKSHOP Civil 3D Sandcastle II (15)	WORKSHOP Reality Modeling / Open Roads Survey Seahorse (15)	WORKSHOP FDOT OpenRoads Horizon (35)
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>Bob Rolle</i>	* FDOT Bridge Modeling in OpenBridge Modeler  FDOT <i>Dongming White</i>	* Drainage Design and Modeling with FDOT Civil 3D and SSA  FDOT <i>M. Sexton / V. Danforth</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 TopoDOT - Feature Extraction - Newer and Important Tools - Best Practices / Q&A  TopoDOT <i>Michael Cook</i>	* F-1-SC II Civil 3D: Advanced Subassemblies - Using Generals and Conditionals  ASI + IMAGINiT Technologies <i>Leo Lavayen</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>M. Sexton / V. Danforth</i>	* Superelevation and Design Criteria with FDOT Civil 3D  FDOT <i>John-Mark Palacios</i>	* QuickStart - Laying out a Drainage Network in OpenRoads Designer  Bentley <i>Ray Filipiak</i>	First Coast Expressway: Lessons Learned on the 22 Mile Path to OpenRoads  RS&H <i>A. Poszich/J. Williams</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>Jimmie Prow</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>	* Designing and Extending Culverts  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, Augement Reality and Mixed Realities for Production  FDOT <i>John-Mark Palacios</i>	Leveraging GIS Data Part 1 : Using Map 3D  ASI + IMAGINiT Technologies <i>Leo Lavayen</i>	* Pond Design: Layout and Hydraulics  Bentley <i>Bob Rolle</i>	Surveying the World - Importing Survey Field Book Data into Civil 3D  David Douglas <i>Jason Panicaro</i>	* F-2-SC I Creating and Manipulating the Corridor  Bentley <i>Sonya Pieterse</i>	* F-2-SC II Site and Residential Grading with Civil 3D  Applied Software <i>Ken Driscoll</i>	F-2-SH QuickStart for Survey  Bentley <i>Ray Filipiak</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  ASI + IMAGINiT Technologies <i>Leo Lavayen</i>	* Using Subsurface Utility Quality Control Tools to Ensure 100% Confidence  Bentley <i>Christiana Holmes</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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