



GIS-T 2018 Preliminary Program

Monday, March 19 - Thursday, March 22, 2018, Little Rock, Arkansas

Program subject to change. Times and rooms not set.

Session: ADOT s Roadway Characteristics Full Extent Project

Topic: Asset Management1

Presenter(s):

Patrick Whiteford	Arizona Department of Transportation

Session: Adding MIRE elements to the enterprise network asset data model

Topic: Asset Management1

Presenter(s):

Marc Kratzschmar	Bentley Systems
Ciparelli, Gregory	Connecticut Department of Transportation

Session: Mobile Lidar for Intersection and ADA Inventories

Topic: Asset Management1

Presenter(s):

Craig Gooding	Continental Mapping Consultants, Inc.

Session: Using Data to Stay on Track - Program Management & GIS

Topic: Asset Management2

Presenter(s):

Amy Sorensen	HDR

Session: Data Driven Decision Making: ODOT s TAMDST

Topic: Asset Management2

Presenter(s):

Ian Kidner	Ohio Department of Transportation
Sovik, Brian	Data Transfer Solutions



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Session: Pierce County Maintenance and Operations NPDES and Vegetation Programs

Topic: Asset Management2

Presenter(s):

Bryan Chappell	Pierce County Planning and Public Works
Wagner, Bruce	Pierce County Planning and Public Works

Session: Moving Assets to ARNOLD in Arkansas

Topic: Asset Management4

Presenter(s):

Tyler Post	Arkansas Department of Transportation
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Session: ROW Property Estimations using Digitized Construction Plans

Topic: Asset Management4

Presenter(s):

Nathan Smith	Oklahoma Department of Transportation
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Session: Visualize the Enterprise

Topic: Asset Management4

Presenter(s):

Patrick Broussard	PMG Software Professionals
Grant, Dawson	Alabama Department of Transportation

Session: Coaxing GIS Data from Mandli Pavement Scans

Topic: Asset Management5

Presenter(s):

William Staats	Kentucky Transportation Center
Lammers, Erin	Kentucky Transportation Center

Session: Nationwide Mobile Mapping: TomTom Data for HPMS and Safety

Topic: Asset Management5

Presenter(s):

Mitch Caya	Mandli Communications, Inc.
Hjelm, Becky	Utah Department of Transportation



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Session: Prioritizing Barrier Replacement

Topic: Asset Management5

Presenter(s):

Kaitlin Marousis	Utah Department of Transportation
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Session: Oracle and Esri Point and Line Geometry Management and Performance

Topic: Data Management1

Presenter(s):

Matthew Allen	GeoDecisions
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Session: MAP-21 Data Validation: It takes a State

Topic: Data Management1

Presenter(s):

Bradley Stephens	Georgia Department of Transportation
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Session: Application of the North Carolina State and Local Government GIS Metadata Profile at NCDOT

Topic: Data Management1

Presenter(s):

Timothy Mulrooney	NC Central University, Department of Environmental, Earth and Geospatial Sciences
Duncan, Chelsea	North Carolina Department of Transportation

Session: Mobile Data Collection Workflows

Topic: Data Management2

Presenter(s):

Eric Rodenberg	Esri
Causseaux, Jared	Florida DOT

Session: No Data for You

Topic: Data Management2

Presenter(s):

Eric Abrams	Iowa DOT
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Session: A Day in the Life of NCDOT LRS Editors

Topic: Data Management2

Presenter(s):

Erin Lesh	NCDOT
Sheldon, Tim	Timmons Group

Session: Using ACS and CTPP Data for Market Segmentation of Households and Employment in the North Central Texas Regional Travel Model

Topic: Data Visualization1

Presenter(s):

Kathleen Yu	North Central Texas Council of Governments
Torres, Francisco	North Central Texas Council of Governments

Session: Using Delaunay Triangles to Display Results from a Travel Demand Model.

Topic: Data Visualization1

Presenter(s):

Francisco Torres	North Central Texas Council of Governments
Mirzaei, Arash	North Central Texas Council of Governments

Session: USGS 3D Elevation Program

Topic: Data Visualization1

Presenter(s):

Chris Cretini	USGS
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Session: Intelligent GIS information extraction from point clouds for Transportation

Topic: Data Visualization2

Presenter(s):

Ramesh Sridharan	Autodesk
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Session: Traversing the Time Dimension in GIS

Topic: Data Visualization2

Presenter(s):

Howard Slavin	Caliper Corporation
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Session: Street-Level Imagery In The Cloud: Getting More Out Of Videologs

Topic: Data Visualization2

Presenter(s):

Janine Yoong	Mapillary
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Session: Broadway Bridge Replacement Unearths Little Rock History

Topic: Mobile2

Presenter(s):

Matthew Strawn	ARDOT
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Session: Mapillary for the DOT

Topic: Mobile2

Presenter(s):

Kyle Gonterwitz	Kansas DOT
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Session: Leveraging Workflows to Improve Geocortex Viewer Functionality

Topic: Mobile2

Presenter(s):

Mark McCart	Iowa DOT/HNTB
Close, Jason	Latitude Geographics

Session: Transfuture: A Scenario Planning Tool for Automated Vehicles and Other Emerging Trends

Topic: Data Visualization3

Presenter(s):

Frank Pisani	HDR
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Session: MassDOT Empowers Municipalities with Online GIS Tools

Topic: Data Visualization3

Presenter(s):

David DiNocco	Massachusetts Department of Transportation
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Session: Quantifying the Quality of Mobility: Development of a Comprehensive Mobility Metric

Topic: Data Visualization3

Presenter(s):

Yi Hou	National Renewable Energy Laboratory
Sperling, Joshua	

Session: Navigating the Flood: DriveTexas and Lessons Learned During Hurricane Harvey

Topic: Energy and the Environment1

Presenter(s):

Jenn Sylvester	Applied Geographics
Terner, Michael	Applied Geographics

Session: Using SPreAD-GIS to Model Construction Noise Impacts to Endangered Species

Topic: Energy and the Environment1

Presenter(s):

Catherine Ventling	Colorado Department of Transportation
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Session: GIS-Bases Assessment for Assessing Roadway Vulnerability to Extreme Weather and Geologic Hazards

Topic: Energy and the Environment1

Presenter(s):

Benjamin Blandford	Kentucky Transportation Center
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Session: Geospatial Online Transportation User Group, Who is it, what does it do?

Topic: GOTUG and AGOL1

Presenter(s):

Penelope Weinberger	AASHTO
Robinson, Matt	

Session: Geospatial Online Transportation User Group, Who is it, what does it do?

Topic: GOTUG and AGOL1

Presenter(s):

Penelope Weinberger	AASHTO
Robinson, Matt	



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Session: Geospatial Online Transportation User Group, Who is it, what does it do?

Topic: GOTUG and AGOL1

Presenter(s):

Penelope Weinberger	AASHTO
Robinson, Matt	

Session: Enterprise LRS & Business System Integration

Topic: LRS1

Presenter(s):

Jason Carr	Louisiana Department of Transportation and Development
Druen, David	Louisiana Department of Transportation and Development

Session: Leveraging NYSDOT's Enterprise Linear Referencing System

Topic: LRS1

Presenter(s):

Kevin Hunt	NYS Office of Information Technology Services
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Session: Title: Legacy System Integration: Sharing your wealth of data

Topic: LRS1

Presenter(s):

Andrea Compton	Transcend Spatial Solutions
Argall, Doug	Transcend Spatial Solutions

Session: Integrating Esri Roads and Highways with dTIMS

Topic: LRS2

Presenter(s):

Gary Ruck	Deighton Associates Limited
Litton, Adrian	ARCADIS



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Session: New Jersey Department of Transportation Mobile Inventory Application

Topic: LRS2

Presenter(s):

Kevin McElwain	Michael Baker International, Inc.
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Session: National Address Database Update

Topic: LRS2

Presenter(s):

Steve Lewis	United States Department of Transportation
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Session: The Cloudy Future of GIS-T: What we should know about cloud computing?

Topic: LRS3

Presenter(s):

Bo Guo	Gistic Research, Inc.
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Session: We're Done, so now what?!

Topic: LRS3

Presenter(s):

Nicole Hanson	Idaho Transportation Department
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Session: Migrating a Single Centerline LRS to Dual Centerline LRS: A case study of Maryland Department of Transportation s R&H Implementation

Topic: LRS3

Presenter(s):

Michel Sheffer	MD SHA
Day, Jesse	Transcend Spatial Solutions

Session: LRS Enabled Parallel Field Data Collection

Topic: Mobile1

Presenter(s):

Gregory Ciparelli	Connecticut Department of Transportation
Day, Jesse	Transcend Spatial Solutions



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Session: Dirty Data Done Dirt Cheap

Topic: Mobile1

Presenter(s):

Mark McCart	Iowa DOT/HNTB
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Session: Integrating Pavement Data Entry from Contract to Post Installation Inspection

Topic: Mobile1

Presenter(s):

Matt McCracken	Timmons Group
Duke, William	Spy Pond Partners

Session: Levering mobile ESRI technology at VDOT to move into the 21st Century

Topic: Process Improvement1

Presenter(s):

Matt Kabak	Esri
Fults, Michelle	Virginia Department of Transportation

Session: WVDOT s Roads to Prosperity: A View into the Future of WV Highways

Topic: Process Improvement1

Presenter(s):

Nate Reck	GeoDecisions
Wu, Ph.D., GISP, Yueming	West Virginia Department of Transportation

Session: DC2RVA: Engineering Collaboration and Decision Support through ArcGIS Online

Topic: Process Improvement1

Presenter(s):

Karen Harrington	HDR
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Session: Cartographically Speaking - Re-creating ARDOT's County and City Map Series in a Dynamic Environment

Topic: Process Improvement2

Presenter(s):

Sharon Hawkins	Arkansas Department of Transportation
Dailey, Don	Arkansas Department of Transportation



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Session: HPMS - The Next Generation

Topic: Process Improvement2

Presenter(s):

MaryGail Broussard	PMG Software Professionals
Formby, John	Alabama Department of Transportation

Session: Leveraging Network Analyst and Developing a Python Tool to Automate Production of Commodity Flows

Topic: Process Improvement2

Presenter(s):

Elise Pletroniro	Transport Canada
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Session: DelDOT Transportation System Data Management (TSDM) Tool for Managing Road Features

Topic: Process Improvement3

Presenter(s):

Jason Vogl	Delaware Department of Transportation
Raghunath, Madduri	Delasoft Inc.

Session: Modernizing NCDOT Project Delivery with GIS

Topic: Process Improvement3

Presenter(s):

Ryan Arthur	North Carolina Department of Transportation
Wilson, Eric	KCI

Session: Connecting Local and State transportation planning with GIS and custom workflow management

Topic: Process Improvement3

Presenter(s):

Matthew Long	PennDOT
Ulp, Greg	GeoDecisions

Session: Louisiana Roadway Network

Topic: Road Network1

Presenter(s):

Chris Cannaday	Louisiana DOTD
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Druen, David	Louisiana DOTD
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Session: Practical uses for pgRouting

Topic: Road Network1

Presenter(s):

Evan Wright	Mississippi Department of Transportation
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Session: Ubiquitous Volume Estimation Using GPS data - A Machine Learning Approach

Topic: Road Network1

Presenter(s):

Yi Hou	National Renewable Energy Laboratory
Young, Stanley	

Session: Linearly Reference TMC to HPMS

Topic: Road Network2

Presenter(s):

Vincent Fang	MacroSys, LLC
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Session: Digging into Roads and Highways: QA and QC - WMX, Data Reviewer, and Custom Queries

Topic: Road Network2

Presenter(s):

Ray Chilcote	NCDOT
Duncan, Chelsea	NCDOT

Session: Workflow for Publishing LRS Based Road Network Data

Topic: Road Network2

Presenter(s):

Yueming Wu, Ph.D., GISP	West Virginia Department of Transportation
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Session: Navigating the QuagMIRE: An LRS-based approach to capturing FHWA's MIRE safety data items

Topic: Traffic, Safety, and Crash Analysis1

Presenter(s):

James Graham	District Department of Transportation
O'Connell, Matt	Sabra, Wang & Associates, Inc.



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Session: ARNOLD, MIRE, and Safety: Finding the Intersection

Topic: Traffic, Safety, and Crash Analysis1

Presenter(s):

John Hudler	Transcend Spatial Solutions
Hawkins, Sharon	Arkansas Department of Transportation

Session: Assembling MIRE Data the Vermont Experience

Topic: Traffic, Safety, and Crash Analysis1

Presenter(s):

Johnathan Croft	Vermont Agency of Transportation
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Session: TransPed - An Interactive Pedestrian and Bicycle Planning Tool

Topic: Traffic, Safety, and Crash Analysis2

Presenter(s):

Michael Schmedt	HDR
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Session: Locating Areas Suitable for Bicycle Transportation

Topic: Traffic, Safety, and Crash Analysis2

Presenter(s):

Hans Haustein	Metroplan
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Session: Oregon DOT Safe Routes to School Map Journal

Topic: Traffic, Safety, and Crash Analysis2

Presenter(s):

Chad Crockett	Oregon Department of Transportation
Bourson, Becca	Oregon Department of Transportation

Session: Spatial Analysis of Rural Crashes and Their Effect on Crash Severity

Topic: Traffic, Safety, and Crash Analysis3

Presenter(s):

Bethany Campbell	LSU Highway Safety Research Group
Dickey, Jeffrey	LSU Highway Safety Research Group



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Session: Analysis of Irregular Crash Patterns in Midland, Texas and Development of a Web-Based GIS Traffic Safety Assessment Tool

Topic: Traffic, Safety, and Crash Analysis3

Presenter(s):

Dayong Wu	Texas Tech University
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Session: Using GIS/LRS to Develop Transportation Management Plan (TMP) Decision Support Capabilities

Topic: Traffic, Safety, and Crash Analysis3

Presenter(s):

Steven Parker	University of Wisconsin-Madison
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Session: KY Transportation Cabinet Using GIS to Support Performance Based Planning and Programming

Topic: Traffic, Safety, and Crash Analysis4

Presenter(s):

Keith Dotson	Kentucky Transportation Cabinet
Vaughan, Eileen	Kentucky Transportation Cabinet

Session: Extracting Actionable Information from the National Performance Management Research Data Set

Topic: Traffic, Safety, and Crash Analysis4

Presenter(s):

Glenn Vorhes	University of Wisconsin - Madison
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Session: Data Management Assessment

Topic: Traffic, Safety, and Crash Analysis4

Presenter(s):

Robert Scopatz	VHB
Harmon, Tim	VHB

Session: Canadian GIS-T Survey 2017 Results

Topic: Transit, Freight, and Surveys

Presenter(s):

david loukes	Opus International Consultants
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Session: TBD

Topic: Transit, Freight, and Surveys

Presenter(s):

Student TBD	
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Session: Large-scale transit field data collection using GIS

Topic: Transit, Freight, and Surveys

Presenter(s):

Matt von Wahlde	Geonetics, Inc
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Session: Lessons Learned Migrating from a Custom Solution to COTS

Topic: Web Maps1

Presenter(s):

Nicole Miller	Johnson, Mirmiran and Thompson, Inc. (JMT)
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Session: Pennsylvania Turnpike Pavement Data Collection & Web Application

Topic: Web Maps1

Presenter(s):

Kenneth Contrisciane	Michael Baker International
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Session: Routing for Bridge Permitting of Oversize Vehicles

Topic: Web Maps1

Presenter(s):

Miles Wacker	Montana Department of Transportation
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Session: The Matrix

Topic: Web Maps1

Presenter(s):

Eric Abrams	Iowa DOT
McCart, Mark	Iowa DOT/HNTB

Session: Transitioning to the Cloud - What you need to know before you go Cloud

Topic: Web Maps2

Presenter(s):

Matt McCracken	Timmons Group
Flahan, Mark	Arizona Department of Transportation

Session: Analytical Research on Minor Structures in North Dakota for GRIT Database

Topic: Web Maps2

Presenter(s):

Mingwei Guo	UGPTI, North Dakota State University
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