

Final Program



**Houston, Texas - March 17 - 19
21st Annual**

GEOSPATIAL INFORMATION SYSTEMS FOR TRANSPORTATION SYMPOSIUM

To provide a forum for transportation officials from State, Province, Federal, and
Municipal Agencies to discuss GIS and transportation issues

March 17 - 19, 2008

Workshops - March 16, 2008

**Westin Galleria & Westin Oaks Hotel
Houston, Texas**

Sponsored by:

American Association of State Highway and Transportation Officials



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The twenty-first annual GIS-T Symposium - *GIS-T 2008 Small Steps, Giant Leaps* – provides a forum for professionals interested in the design and use of GeoSpatial Information Systems for Transportation. It brings together individuals from education, the private sector, and all levels of government for a full day of workshops March 16, 2008, and three full days of conference activity, March 17 - 19, 2008.


Check www.gis-t.org for the most current information

GIS-T 2008 PLANNING COMMITTEE

Diane Pierzinski, Conference Chair

Jay Adams Oklahoma DOT	Debra Alfonso Michigan DOT
Lindsay Banks Chicago Metro Planning	Shawn Blaesing-Thompson Washington DOT
Rose Braun Nebraska DOR	Mark Bradford BTS
Frank Busch Retiree	Dave Blackstone Ohio DOT
Van Colebank Tennessee DOT	Dick Genrich Retiree
Connie Gurchiek GeoDecisions	Lou Henefeld Colorado DOT
Marvin Koleis Colorado DOT	Tammy Lang Colorado DOT
Brian Logan Kansas DOT	Daris Ormesher South Dakota DOT
Cindy Owings Maine DOT	Jim Patterson Texas DOT
Roger Petzold FHWA Liaison	James D. Ramsey AASHTO Rep.
Mark Sarmiento FHWA	Ben Williams FHWA
Frank Winters New York CSCIC	Dan Wyly Texas DOT

General Schedule


	Sunday March 16, 2008	Monday March 17, 2008	Tuesday March 18, 2008	Wednesday March 19, 2008		
7:00 AM	Registration Continental Breakfast	Registration Continental Breakfast	Registration Continental Breakfast	(Sleep In!!!)	7:00 AM	
8:00 AM	Morning Workshops 1. Bringing GPS Into Perspective- A Workshop for GIS Managers 2. A Six-Pack of Avoidable, Seemingly Difficult, Major RFP Problems and Solutions 3. 3D Geospatial for Transportation: Best Practices and Project Implementation Methods 4. Multi-Level Linear Referencing Systems (MLLRS) Maintenance for State Transp. Databases	Opening Session Welcome To Houston Judy B. Skeen, P.E. Texas DOT Keynote Speaker Dr. John J. Pelizza	Panel Discussion Disaster Response in Transportation Agencies Marvin Koleis - Moderator	Registration Continental Breakfast	Technology Hall Open	8:00 AM
9:00 AM				Break		Break
10:00 AM		State Summary & Roll Call of States	Session 3 1. Enterprise Data 2. Web GIS 3. Federal GIS 4. Safety			
11:00 AM				Lunch - Workshop Attendees Only		Lunch
12:00 PM	Afternoon Workshops 1. Requirements for a State-wide 3-D, Real-time Positioning Infrastructure to Support Transportation Systems 2. Enterprise Information Integration 3. Microsoft Virtual Earth - In Depth 4. Introduction to GIS Web Services	Session 1 1. State of Texas 2. Student Paper Contest Winners 3. GIS Planning 4. Mobile GIS	Session 4 1. GIS Data Sharing 2. GIS/CADD Integration 3. Imaging 4. GIS Planning		Box Lunch	
1:00 PM				Break	Break	Next Host State Presentation
2:00 PM		Session 2 1. Google Earth Apps 2. Enterprise GIS 3. ITS / GIS 4. LRS / LRM	Session 4 1. GIS Data Sharing 2. GIS/CADD Integration 3. Imaging 4. GIS Planning			Awards/Drawings
3:00 PM				Birds of a Feather & GIS Gallery	Tuesday Night Social 	Virtual Tour Session Microsoft Virtual Earth
4:00 PM	Technology Hall Reception	Technology Hall Reception	Symposium Wrap-Up Come join us for a debriefing of this year's symposium and planning for the next. Refreshments Provided!			4:00 PM
5:00 PM			Technology Hall Open	Technology Hall Open		5:00 PM
6:00 PM						6:00 PM
7:00 PM					7:00 PM	
8:00 PM					8:00 PM	
8:30 PM					8:30 PM	

GIS-T 2008 WORKSHOPS – SUNDAY, MARCH 16

7:00 AM - 8:00 AM

Registration

8:00 AM - 12:00 PM

Bringing GPS Into Perspective-A Workshop for GIS Managers and Practitioners	A Six-Pack of Avoidable, Seemingly Difficult, Major RFP Problems and Their Simple Solutions	 3D Geospatial for Transportation: Best Practices and Project Implementation Methods	Multi-Level Linear Referencing Systems (MLLRs) Maintenance for State Transportation Databases
Jonathan Cobb, Waypoint Technologies	Michael Asner, Michael Asner Consulting	Tim Case, Parsons Brinckerhoff Ben Williams, FHWA Resource Center	Gerald Dildine, ITIS Jeff Tomlinson, ITIS
Room: Chevy Chase Moderator: Darryl Zercher-TxDOT	Room: West Alabama Moderator: Frank Bushong-TxDOT	Room: Plaza I Moderator: Steven Michalek-TxDOT	Room: Plaza II Moderator: Dean Wilkerson-TxDOT

12:00 PM - 1:00 PM

Lunch

1:00 PM - 5:00 PM

Requirements for a Statewide 3-D, Real-time Positioning Infrastructure to Support Transportation Systems	Enterprise Information Integration	Microsoft Virtual Earth - In Depth	Introduction to GIS Web Services
Dr. Roy Dokka Louisiana State Univ. Dr. Jim Mitchell, Louisiana DOTD	Bill Boland & Dr. Max Wyman, Terra Genesis	Marc Schweigert, Microsoft Corp.	Frank Winters, New York State Office of Cyber Security & Critical Infrastructure Coordination
Room: Chevy Chase Moderator: Darryl Zercher-TxDOT	Room: West Alabama Moderator: Frank Bushong-TxDOT	Room: Plaza II Moderator: Steven Michalek-TxDOT	Room: Plaza I Moderator: Dean Wilkerson-TxDOT

SUNDAY, MARCH 16

TECHNOLOGY RECEPTION – TECHNOLOGY EXHIBITS OPEN – WOODWAY HALL

(SUNDAY 5:30 PM TO 7:30 PM)

(MONDAY 6:30 PM TO 8:30 PM)

The Technology Hall opens on Sunday evening at 5:30 pm in with a reception for all Symposium attendees and guests. On Monday, Symposium participants are welcome to attend another reception starting at 6:30 pm.

In addition, the technology showcase will be open at these times:

Monday—12 NOON to 8:30 PM

Tuesday—7:00 AM to 4:00 PM

Wednesday—7:30 AM to 12 NOON

GENERAL SESSIONS

MONDAY, MARCH 17

Opening Session / KEYNOTE SPEAKER – GALLERIA BALLROOM

(MONDAY 8:00 AM TO 10:00 AM)

Dr. John J. Pelizza

Nationally known, Dr. Pelizza is a leading authority on wellness, change process, stress management, productivity, team building and personal growth. He is a dynamic speaker to over 2000 business, professional and civic groups throughout North America.

John J. Pelizza, Ph.D., received his Bachelor of Science Degree from Pittsburg State University, Pittsburg, Kansas and his Master's Degree from Temple University, Philadelphia, Pennsylvania. John received his Doctor of Philosophy Degree from the University of New Mexico at Albuquerque, Albuquerque, New Mexico.

The founder of Pelizza & Associates, an organization designed to help people grow personally and professionally, Dr. Pelizza has dedicated himself to helping others . . . feel BETTER and do BETTER -- to helping people maximize their personal wellness and growth.

John's books include: [A Journal to Live By](#), [The Big Secret](#), [There's Magic in Discovery](#), [Foot in the Door](#) and [Thoughts to Make You Think and Feel Better](#). He has also recorded three audio tapes, titled "Keys to High Energy Living", "Staying Motivated During Change" and "21 Ways to Get Up & Go!" He also publishes a quarterly newsletter, "Pelizza's Positive Principles for Better Living". <http://www.pelizza.com>

STATE SUMMARY AND ROLL CALL OF STATES

(Monday 10:30 AM to 12:00 NOON)

Summary results from a survey sent to GIS representatives in each state will be presented. The Roll Call of States features one representative from each country, state, province, or local agency to briefly mention the status of their GIS implementations and challenges that they face.

STUDENT PAPER SESSION – GALLERIA II

(Monday 1:30 PM to 3:00 PM)

This year GIS-T presents the third annual Student Paper Session. Student winners, selected by the planning committee, will present their technical research papers focused on developing solutions for current GIS-T issues. The students will take home a \$250 or \$500 award.

BIRDS OF A FEATHER – GALLERIA I & II
(Monday 5:00 PM to 6:00 PM)

Each year at GIS-T the planning committee schedules concurrent sessions under the heading of *Birds of a Feather*. These sessions are designed to give Symposium participants an opportunity to present questions as well as issues of concern to some of the leading technology companies that serve our GIS in Transportation niche. Past symposiums have featured two or three of these companies.

For GIS-T '08 we would like to encourage participants to submit their questions and concerns in advance of the symposium. The GIS-T Symposium planning committee will then forward those questions to the technology companies. The planning committee will also be able to determine how many concurrent sessions we should accommodate, based upon the number of questions directed at each technology company. **When you register, please take a few minutes to identify those areas of concern or interest that you have, and thank you for your participation.**

GIS GALLERY – WOODWAY III
(Monday 5:00 PM to 6:30 PM)

The GIS-T Symposium provides a showcase for attendees to display GIS-generated mapping and poster products. This is an opportunity to share techniques and applications with peers in the transportation GIS community. A dedicated time will be made available on Monday evening to browse and discuss the various entries. Come see how States are using GIS to advance their work. A panel of judges evaluates each submission, and awards are given within each category [Transportation Publication; Information Usage; Public Presentation; and Effective Cartography] during the Wednesday Symposium lunch. Every state and transportation organization is strongly encouraged to submit examples of their work. Attendees will be able to view maps for the duration of the Symposium.

SPOUSE TOURS

Monday, March 17 - Houston Livestock Show and Rodeo
(8:30 AM to 3:00 PM)

Bring your hat and boots! The [Houston Livestock Show](#) is the world's largest livestock exhibition as well as the world's largest rodeo event. The 20 day event is held at Reliant Park in Houston, Texas and features bull riding, livestock judging, concerts, a parade, a carnival, trail rides, barbecue and wine competitions, shopping, sales, and auctions. Although the rodeo performance is in the evening, there are continuous activities during the day.

In this gigantic, one-of-a-kind Western shopping mall, show patrons can purchase everything from Western clothes, horse trailers and gourmet food to unique arts and crafts and agricultural machinery. All types of food can be found as well, from traditional barbecue to fine cuisine. There is something to please everyone's palate in Reliant Center, Reliant Arena and throughout Reliant Park. Also visit Agventure to learn about agriculture and how it affects you every day. Nearly every species of livestock can be found inside this fun and educational area with live animal exhibits.

We will spend the majority of the day at Reliant Park departing from the hotel at 8:30 am, arriving at approximately 9:00 am with lunch on your own, and returning to the Westin by 3:00 pm.

Tuesday, March 18 – Museum of Natural Science
(8:30 AM to 2:30 PM)

The [Houston Museum of Natural Science](#) is the 4th most visited museum in the nation. The Museum is a five part complex housing the Burke Baker Planetarium, Wortham IMAX Theatre, Cockrell Butterfly Center and three floors of natural science halls and exhibits including the world famous Cullen Hall of Gems and Minerals. There is much to see and learn! You will have the opportunity to visit one of three special exhibits.

Lucy's Legacy, the Hidden Treasures of Ethiopia - Discover the rich history and culture of Ethiopia, the cradle of mankind. From the rock-hewn churches of Lalibela and the massive, ancient obelisks at Axum to the beautiful highlands of Gondar and the arid desert in which the famous fossil Lucy was discovered, *Lucy's Legacy* tells the amazing story of Ethiopia over the past 5 million years. In addition to the fossil of Lucy, over 100 artifacts such as ancient manuscripts and royal artifacts from a dynasty Ethiopians believe stretches back to the son of the biblical King Solomon and the Queen of Sheba will be on display.

Leonardo da Vinci: Man, Inventor, Genius - Leonardo da Vinci was one of the greatest geniuses the world has ever known. More than 500 years ago, Da Vinci designed flying machines, robots, submarines, underwater breathing gear and solar powered industries. This remarkable internationally acclaimed exhibition displays over 60 models of Da Vinci's famous machines, inventions and designs based on ancient codices.

CSI: The Experience: The Experience is a completely immersive exhibit that invites visitors to enter "crime" scenes where they identify and record evidence. It takes them inside "laboratories" for scientific testing and to "autopsy" rooms for pathology analysis. Then it returns them to the "office" to build their case, based on the scientific evidence. The exhibit brings to life real scientific principles and the most advanced scientific techniques used today by crime scene investigators and forensic scientists.

We will depart from the hotel at 8:30 am, arrive at the museum at approximately 9:00 am, and depart from the museum at 12:30 pm. Lunch will be provided at the legendary El Patio Mexican Restaurant prior to returning to the Westin by 2:30 pm.

The Galleria Mall (Anytime)

With its stunning architecture, exceptional store mix and distinctive style of entertainment, the [Galleria Mall](#) has established itself as the #1 shopping and tourist destination in Houston with over 24 million annual visitors. Set beneath spectacular glass atriums, The Galleria features more than 375 fine stores and restaurants and an impressive ice rink. This world-class shopping complex showcases the best names in retailing including Neiman Marcus, Cartier, Gucci, Macy's, Tiffany & Co., Saks Fifth Avenue, The Sharper Image, Ralph Lauren Collection, Louis Vuitton and Houston's only Nordstrom. The Galleria is the fourth largest mall in the nation highlighted by nine types of stone, suspended glass balconies, three types of wood, glass skylights, and plush leather seating. With three office towers, two hotels, 2.4 million square feet of retail space, and a variety of restaurants, The Galleria is a city within a city.

TUESDAY, MARCH 18

PANEL DISCUSSION – GALLERIA BALLROOM

Disaster Response in Transportation Agencies (Tuesday 8:00 AM to 10:00 AM)

Moderator: Marvin Koleis – Colorado DOT

Events over the past decade have placed a spotlight on the complex nature and numerous challenges faced by transportation practitioners as it relates to dealing with disasters. Forced to the forefront during these events is the importance of the nation's transportation infrastructure in supporting daily life and commerce, as well as the critical role transportation plays in rendering necessary aid to areas impacted by a disaster. Panelists will use the recently published report titled *Disaster Response in Transportation Planning*, which was prepared as part of *NCHRP Project 08-36, Task 69 (03)*, National Cooperative Highway Research Program, Transportation Research Board, as a foundation upon which to discuss their experiences and perspectives relative to disaster preparedness and response.

Panelists include:

- Henry Cordova - Broward Metropolitan Planning Organization
- Chris Van Slyke - Houston-Galveston Area Council
- Gerald Schumacher - California DOT
- Jim Mitchell – Louisiana DOTD

TUESDAY NIGHT SOCIAL

Space Center Houston

(Tuesday 4:00 PM to 10:00 PM)

The [Space Center Houston](#) offers a myriad of interactive fun and adventure at Houston's #1 attraction.

Six different major activities open on to an immense five-story Plaza, which is the focal point for a variety of ever changing exhibits. Large format space films in the "Mazda – Space Center Theater". See actual space suits from the many years in the "Astronaut Gallery". Learn more about life on the International Space Station in "Living in Space". Investigate the various levels of the Space Shuttle inside an actual space shuttle mockup. Feel the force of a Space Shuttle launch and learn more about NASA and the space program in the "AAA –Texas Mission Status Center". Touch an actual moon rock or walk inside the Skylab Trainer in the "Destiny Theater and Starship Gallery". Also "behind the scenes" tram tours of NASA's Johnson Space Center including the historic Apollo era Mission Control and the astronaut training facilities.

We will depart from the hotel at 4:00 pm and arrive at the Space Center approximately 5:00 pm. A Texas barbeque buffet dinner will be served in the Astronaut Gallery at approximately 7:45 pm. Snacks and beverages will be available earlier in the evening. Buses will depart from the Space Center beginning at 9:00 pm returning to the Westin by 10:00 pm.

WEDNESDAY, MARCH 19
Virtual Tour – Galleria I & II
Microsoft Virtual Earth

Enabling Data Access, Visualization, Analysis and Insight
(Wednesday 1:30 PM to 3:00 PM)

Government agencies are challenged to provide an ever-expanding palette of services to their constituents while making critical decisions in a complex world. Microsoft Virtual Earth is a robust platform for building cost-effective, flexible and accurate spatial solutions that disseminate data quickly, streamline processes, and improve users' decision making and response time. This session will demonstrate how to extend ESRI investments and will include real world Public Sector solutions built on the Virtual Earth platform.

SYMPOSIUM WRAP-UP - GALLERIA IV
(WEDNESDAY 3:00 PM TO 5:00 PM)

Come join us for a debriefing of this year's symposium and planning for the next.

Refreshments Provided!

Host: Diane Pierzinski

START PLANNING NOW TO ATTEND
The Twenty-Second Annual








GEOSPATIAL INFORMATION SYSTEMS FOR
TRANSPORTATION SYMPOSIUM


To provide a forum for transportation officials from State, Province, Federal, and Municipal Agencies to discuss GIS and transportation issues

April 6 - 8, 2009
Workshops—April 5, 2009

CONCURRENT SESSION 1

1:30 PM MONDAY, MARCH 17

1.1 State of Texas		Galleria I	
Moderator: Michael Chamberlain			
 1.1.1	From Space to Database at the Speed of Light	James Johnson Texas DOT Austin, TX	Andre Fuegner Texas DOT
 1.1.2	Enterprise Information Integration: Many Small Steps for One Giant Leap	Jim Patterson Texas DOT Austin, TX	
 1.1.3	Managing TxDOT Highway Improvement Projects in a Web-based GIS Environment	Nicholas Koncz Texas Transportation Institute San Antonio, TX	Cesar Quiroga
1.2 Student Paper Contest		Galleria II	
Moderator: Cindy Owings			
 1.2.1	Utilizing GIS to Measure Street Connectivity and Pedestrian Accessibility: Comparing Cul-De-Sac and Grid Neighborhoods in the Houston Metropolitan Area	Chang Yi University of Texas Austin, TX	
 1.2.2	Carsharing in Austin: A Service Based Approach Using GIS to Locate Carshare Typical User and Non Typical User Groups in Travis County	Martin Thomen University of Texas Austin, TX	
1.2.3	Using Geographic Information Systems to Determine Street, Road, and Highway Functional Classification Accuracy	Eric Foster Northwest Missouri State University Maryville, MO	
1.3 GIS Planning		Galleria III	
Moderator: Kevin Hunt			
1.3.1	VDOT Strategic Planning -Revisiting the Mission	Lowell Ballard Timmons Group Richmond, VA	Melaine Seigler Virginia DOT
1.3.2	Using GIS for Pedestrian and Bicycle Planning	Kirk Weaver Michael Baker Jr., Inc. Princeton, NJ	
1.3.3	Bicycle Level of Service-The first GIS Decision Support System in Maryland DOT	Michel Sheffer Maryland State Highway Administration Baltimore, MD	
1.4 Mobile GIS		Galleria IV	
Moderator: Bruce Spear			
1.4.1	Benefits of Spatially-enabled Mobile Workforce Management to the Transportation Enterprise	Bruce Aquila Intergraph Corp. Huntsville, AL	
1.4.2	The Application of Mobile Mapping Technology and AVI Video Log Assets For Government Data Collection Projects	Doug Von Koenig Tele Atlas Lebanon, NH	
1.4.3	Real-Time Enterprise GPS Tracking Solution of New Jersey Transit: Scalability and Performance Consideration	Yu "Bud" Luo Michael Baker Jr. Inc. Horsham, PA	

The  symbol indicates a session from Texas, the Host State.

CONCURRENT SESSION 2

3:30 PM MONDAY, MARCH 17

2.1	Google Earth Applications		Galleria I
	Moderator: Jim Vitale		
2.1.1	How Iowa DOT use Google Earth and Maps	Eric Abrams Iowa DOT Ames, IA	
2.1.2	Exposing Manitoba Highway Conditions in Google Earth	Shawn Cruise Manitoba Infrastructure and Transportation Winnipeg, Manitoba	
2.1.3	GRIP Goes Google	Jay Adams Oklahoma DOT Oklahoma City, OK	Jesse Jay GeoDecisions
2.2	Enterprise GIS		Galleria II
	Moderator: Kirk Weaver		
2.2.1	Washington DOT-Spatial growing pains in a dynamic Enterprise environment	Shawn Blaesing-Thompson Washington State DOT Olympia, WA	
2.2.2	Florida DOT Enterprise GIS – Establishing a Business Case	Jared Causseaux Florida DOT Tallahassee, FL	Tejaswi Tharakabhushanam Cambridge Systematics
2.2.3	Enterprise GIS Transportation Solutions for the Navajo Nation	Bryan McFadden Data Transfer Solutions Charlotte, NC	
2.3	ITS / GIS		Galleria III
	Moderator: Drew Davis		
2.3.1	GIS Lane Closure Management Application	Mike Pordes Patrick Engineering, Inc. Chicago, IL	
2.3.2	Traffic Management Centers; The Confluence of ITS and GIS	Wayne Spaulding GeoDecisions Philadelphia, PA	Connie Gurchiek GeoDecisions
2.3.3	GIS and ITS for Integrated Corridor Management	Yushuang Zhou Cambridge Systematics Oakland, CA	
2.4	LRS / LRM		Galleria IV
	Moderator: Drew Rifkin		
2.4.1	Data Maintenance of a multi-level LRS as practiced in the Geo Trans data model	Phil Hardy Intergraph Corp. Mission Viejo, CA	
2.4.2	GIS Maintenance Tools to Support a Multi-Year Linear Reference Network used for Transportation Planning	Brian Hoeschen Jacobs Carter & Burgess Denver, CO	Lavanya Vallabhaneni Maricopa Assoc. of Gov.
2.4.3	Implementing the Canadian National Road Network linear referencing data model at New Brunswick DOT	Marc Kratzschmar Exor Corp San Diego, CA	




CONCURRENT SESSION 3


10:30 AM TUESDAY, MARCH 18

3.1	Enterprise Data		Galleria I
	Moderator: Bill Schuman		
3.1.1	The Pennsylvania Turnpike Commission's Executive Information System: A True Geospatial Information Management System	James E Vitale W.E.C. Engineers, Inc. Bridgeville, PA	
3.1.2	Breaking down the silos (Location, Location, Location)	Cindy Owings Maine DOT Augusta, ME	
3.1.3	Improving National Transportation Geospatial Information	Reginald R. Souleyrette Iowa State University Ames, IA	
3.2	Web GIS		Galleria II
	Moderator: Dwayne Mills		
3.2.1	GIS 2.0:Web 2.0 Meets GIS	Mark Alexander ISC Tallahassee, FL	
3.2.2	Web Portals for Sharing and Integrating GIS Data (WA-Trans One-Road Pilot)	Michael Leierer Washington State DOT Olympia, WA	
3.2.3	Using Enterprise Data to Support Oversize Vehicle Permitting	Kevin Hunt New York State DOT Albany, NY	
3.3	Federal GIS		Galleria III
	Moderator: Auroop Ganguly		
3.3.1	What's going on at FRA?	Raquel Wright USDOT/Federal Railroad Administration (FRA) Washington, DC	
3.3.2	Latest Efforts in updating the Census Transportation Planning Package (CTPP)	Mark Bradford US DOT Bureau of Transportation Statistics Washington, DC	
3.3.3	How Freight Moves: Estimating Mileage and Routes Using an Innovative GIS Tool	Steve Lewis USDOT / BTS Washington, DC	Felix Ammah-Tagoe E-Ternational Research
3.4	Safety		Galleria IV
	Moderator: Athar Naqi		
3.4.1	Using GIS for Analyze Crash Data in the I-95 Corridor	Bruce Spear Cambridge Systematics Bethesda, MD	
3.4.2	Improving Work Zone Traffic Analysis with GIS – the Development of an Enterprise Application at the Oregon Department of Transportation	Robert Kirkman HDR Engineering, Inc Salem, OR	
3.4.3	A Crash Mapping and Analysis Application	Feng Lu PB Americas Inc. New York, NY	Jim Hubbell Mid-America Regional Council

CONCURRENT SESSION 4


1:30 PM TUESDAY, MARCH 18


4.1	GIS Data Sharing		Galleria I
	Moderator: Ali Roshannejad		
4.1.1	Roadway Network System (RNS)	Russell Minich Timmons Group Richmond, VA	Melanie Seigler Virginia DOT
4.1.2	Developing and Implementing a project requiring collaboration to succeed	Tami Griffin Washington State DOT Olympia, WA	
4.1.3	Ohio's Linear Based Referencing System, a true State and Local Government Partnership	Ron Cramer Digital Data Technologies Columbus, OH	Mark Wilcoxon
4.2	GIS / CAD Integration		Galleria II
	Moderator: Bryan Thompson		
4.2.1	From GIS data to CAD graphics-Iowa DOT's workflow utilizing GeoMedia and MicroStation to develop map products	Nick Meurer Iowa DOT Ames, IA	Mark Hanson Iowa DOT
4.2.2	Integrating / Extracting Geospatial Data in a Stereo Base Map Environment for Transportation Corridors	John E. Matthews HSA Consulting Group, Inc. Tallahassee, FL	
4.2.3	CAD/GIS Integration-How to make them fit	Vince Hamilton Michael Baker Jr. Inc. Houston, TX	
			
4.3	Imaging		Galleria III
	Moderator: Darryl Zercher		
4.3.1	Trials and Tribulations of Completing the World's Largest Orthophotography Project	Brad Adams Bohannon Huston, Inc. Garland, TX	
4.3.2	Fusing LiDAR and Imagery: Providing effective solutions for Ohio's Transportation Infrastructure	Brian Stevens Woolpert, Inc. Dayton, OH	
4.3.3	The PA Map Program - Ortho and Lidar	Frank Desendi PennDOT Harrisburg, PA	
			
4.4	GIS Planning		Galleria IV
	Moderator: Xiahong Ju		
4.4.1	Emergency Evacuation Plans; Timelines- Why you need Them and Why They Don't Work	James E. Mitchell Louisiana DOTD Baton Rouge, LA	
4.4.2	Florida DOT's Strategic Investment Tool	Greg Yarbrough Wilbur Smith Associates Columbia, SC	
4.4.3	TxDOT's Statewide Planning Map	Michael Chamberlain Texas DOT Austin, TX	
			

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CONCURRENT SESSION 5



8:30 AM WEDNESDAY, MARCH 19

5.1 Management Systems		Galleria I	
Moderator: James Johnson			
5.1.1	Measuring and GIS-referencing of Network-level Pavement Deterioration in Post-Katrina Louisiana	Allan Venema Roadware Group, Inc. Paris, ON	Jason Trotter Roadware Group, Inc.
5.1.2	A Pavement Management System for Pitkin County, CO	Jason Amadori Data Transfer Solutions Orlando, FL	
5.1.3	The Navajo County Integrated Information System	Max M Wyman Terra Genesis, Inc. Chandler, AZ	
5.2 Data Collection		Sage Room	
Moderator: Suhag Kansara			
 5.2.1	Efficient Collection of Pavement Distress Data in an Urban Environment, A Case Study - Dallas	Jason Dong Enterprise Information Solutions, Inc. Columbia, MD	
5.2.2	Data Acquisition For Better Roads -- Best Practices & New Technologies	Patrick Melancon Tele Atlas North America Inc. Lebanon, NH	
5.2.3	Alaska DOT&PF Photolog/GPS Data Collection – Year 2	Larry Mattke Mandli Communications, Inc Madison, WI	Kerry Kirkpatrick Alaska DOT&PF
5.3 Right-of-Way GIS		Galleria II	
Moderator: Anthony Pietropola			
5.3.1	Nevada DOT's Integrated Right-of-Way Information Network (IRWIN)	Eric Warmath Nevada DOT Carson City, NV	David Doyle Smart Data Strategies
5.3.2	Right-of-Way and Real Property Intelligence: Sustainable Enterprise Solutions for Transportation Agencies and beyond.	Pierre le Roux Intergraph Corporation Huntsville, AL	
5.3.3	Washington DOT – Digital Archiving and Spatial enabling Real Estate Management	Shawn Blaesing-Thompson Washington State DOT Olympia, WA	
5.4 Routing		Westchester Room	
Moderator: Jesse Day			
5.4.1	Case Study - Ohio Franklin County Engineer's Snow Plow Routing Project	Howard Luxjho Transmap Columbus, OH	
5.4.2	Towards Secure Transportation Corridors: A GIS-based Framework for Knowledge Discovery	Auroop R Ganguly Oak Ridge National Laboratory Oak Ridge, TN	Budhendra Bhaduri
5.4.3	Development of Diversion Routes for Interstate Highways in the Baton Rouge Area	John Wells Louisiana DOTD Baton Rouge, LA	Glen Graham G.E.C., Inc.

The  symbol indicates a session from Texas, the Host State.

CONCURRENT SESSION 6

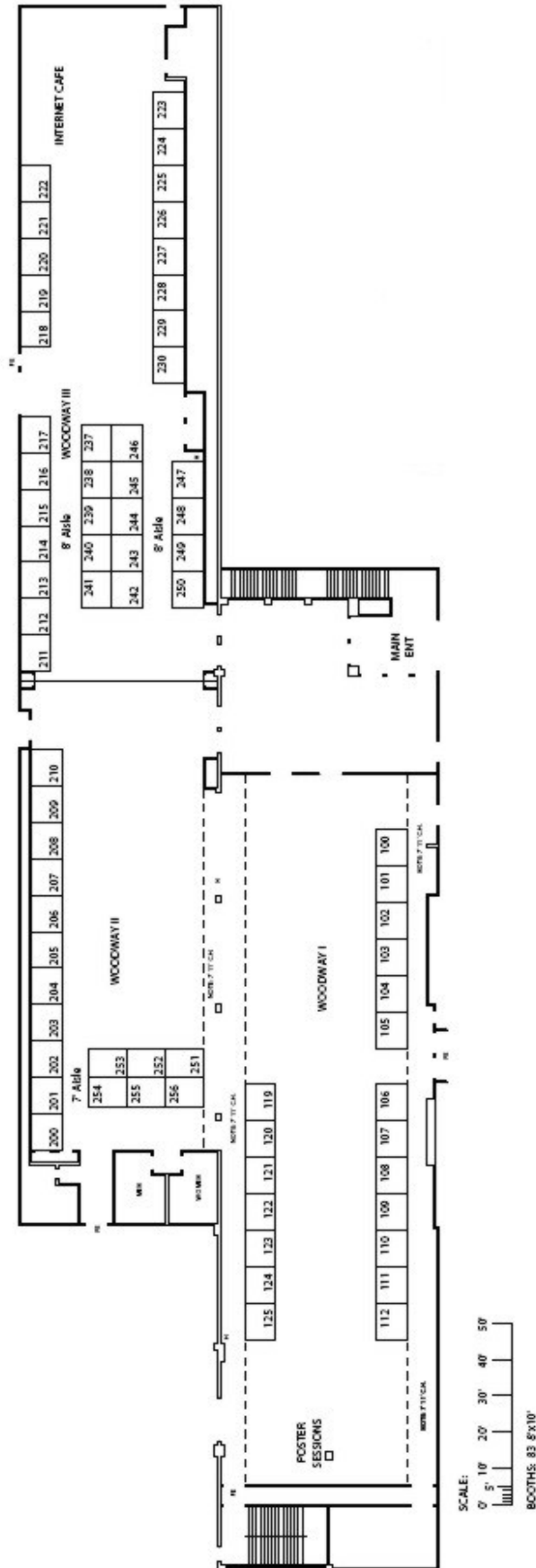
10:30 AM WEDNESDAY, MARCH 19

6.1 Data Management		Galleria I	
Moderator: Mark Bradford			
6.1.1	Preserving the Past	Al Butler MilePost Zero Orlando, FL	
6.1.2	INCOG Transportation Planning Department Spatial Data Management Workflow	Kevin Tartar Indian Nations Council of Governments Tulsa, OK	
6.1.3	Making the Leap-Left Brain, Right Brain-Meeting the Data Needs of All of Your Customers	Drew Davis Larimer County Road and Bridge Department Fort Collins, CO	Russell Page Exor Corporation
6.2 LRS / LRM		Galleria II	
Moderator: Allen Ibaugh			
6.2.1	Montana Department of Transportation (MDT) Location/Linear Referencing System (LLRS) Design Process	Marlin Sanders Montana DOT Helena, MT	Bill Schuman GeoDecisions
6.2.2	How Iowa DOT is using it's Linear Referencing System	Eric Abrams Iowa DOT Ames, IA	
6.2.3	Illinois Tollway LRS Implementation Strategy	Brian Fee Patrick Engineering, Inc Chicago, IL	Scott Lueck PB Americas
6.3 Database Design		Galleria III	
Moderator: Yushuang Zhou			
6.3.1	Geodatabase Design Considerations for Linear Assets in Roads Asset Management System	Ali Roshannejad City of Calgary Calgary, Alberta	
6.3.2	Translating Disparate GIS data to and from a Standardized GIS database: A Case Study	Michael Leierer Washington State DOT Olympia, WA	
6.3.3	Colorado DOT's Roadway Geodatabase – Project Stopped	Lou Henefeld Colorado DOT Golden, CO	
6.4 Local Government GIS		Galleria IV	
Moderator: Steven Michalek			
6.4.1	Building a GIS Fanbase	Gwen Ford City of High Point DOT High Point, N.C.	
 6.4.2	Planning Programs at the Houston MPO	Suhag Kansara Houston-Galveston Area Council MPO Houston, TX	Ernie Ott Citilabs
 6.4.3	Analysis and Integration of Spatial Data Used for Long-Range Transportation Planning Activities	Cesar Quiroga Texas Transportation Institute San Antonio, TX	Nicholas Koncz

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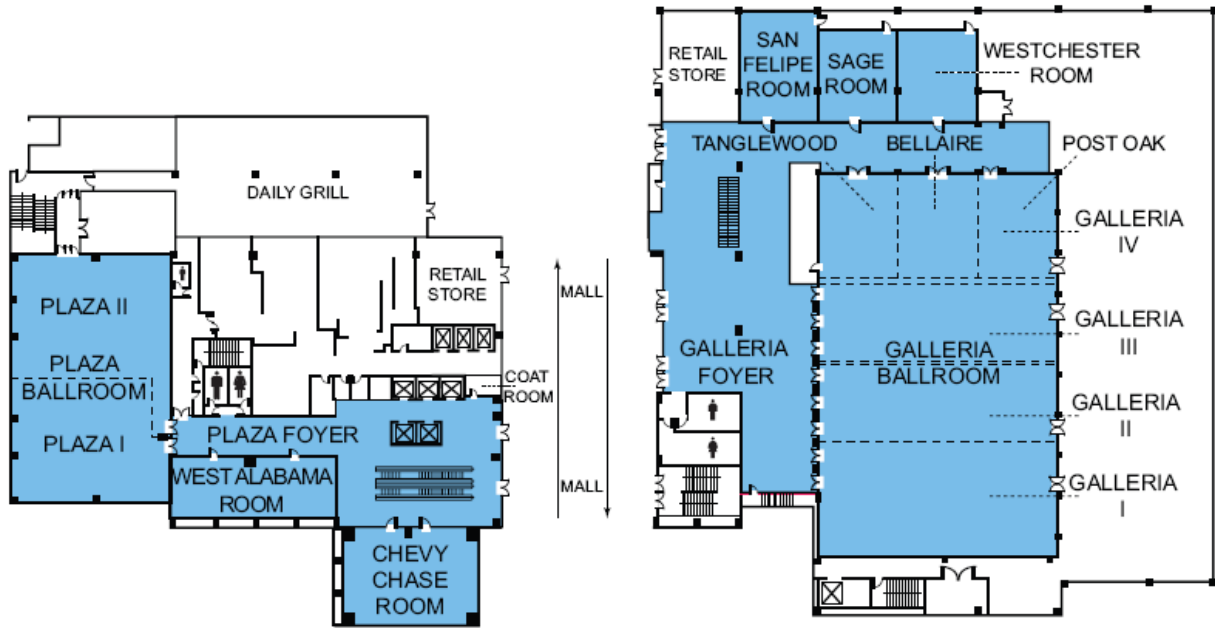


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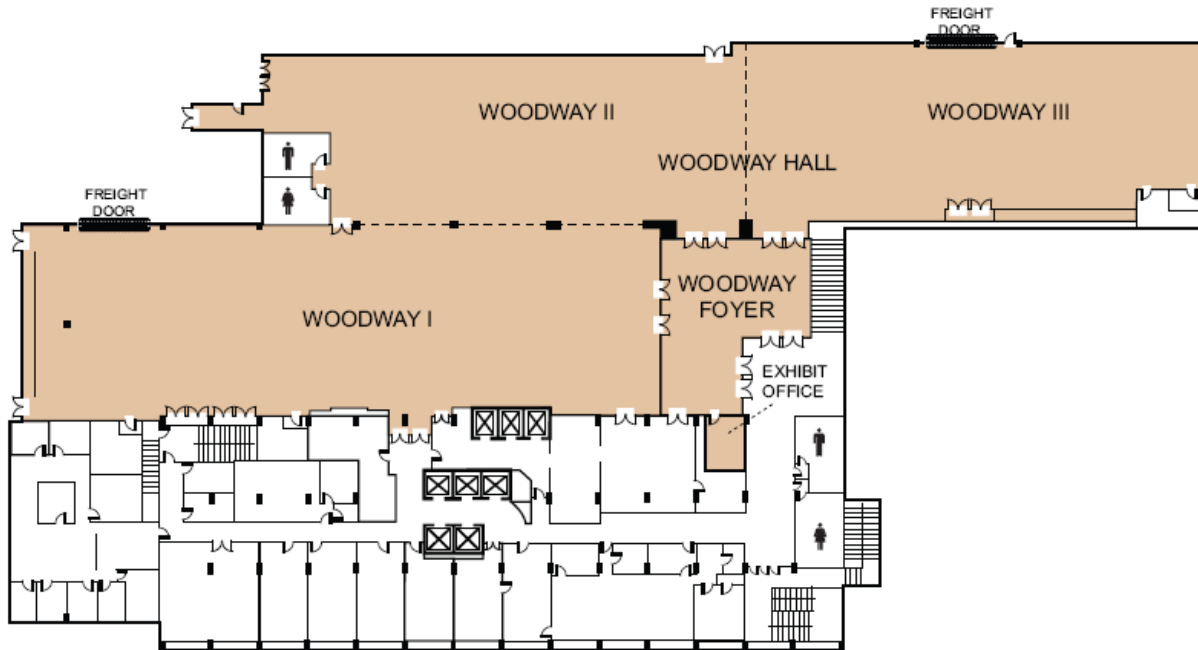
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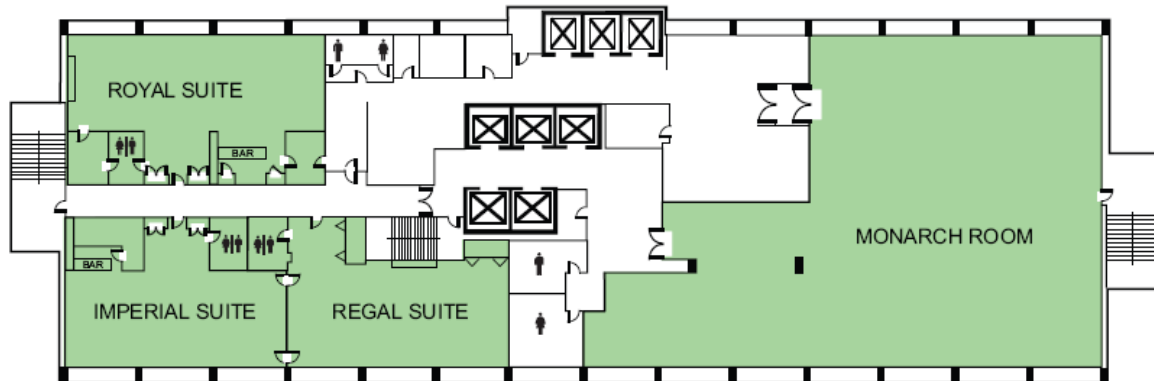
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THE WESTIN GALLERIA, HOUSTON THIRD LEVEL



THE WESTIN GALLERIA, HOUSTON FOURTH LEVEL



THE WESTIN GALLERIA, HOUSTON TWENTY-FOURTH LEVEL

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