

November 1-3, 2005

Renaissance Hotel, International Plaza
Tampa, Florida



NCTR GIS in Transit Conference

WELCOME

CUTR's National Center for Transit Research at the University of South Florida in Tampa is pleased to present a conference on GIS in Transit on November 1-3, 2005, at the Renaissance Hotel International Plaza in Tampa. This year's agenda provides opportunities for GIS and transit personnel to attend learn about new and relevant issues associated with GIS as it relates to transit. Participants will learn from experts in the GIS in transit industry, interact with creative minds, network, meet vendors, and gain knowledge from people who have experience and understand the challenges faced in this industry.

Please make sure to visit the vendor display area, which is open until 5:30 daily. Vendors displaying are ESRI, Cambridge System, Trapeze, ETC...

SCHEDULE-AT-A-GLANCE

TUESDAY, NOVEMBER 1, 2005

12:15-1:30 pm	Opening Session Luncheon
1:30-2:00 pm	Vendor Displays
2:00-3:30 pm	State of the Practice
3:30-3:45 pm	Break & Refreshments
3:45- 5:00 pm	Data Integration

WEDNESDAY, NOVEMBER 2, 2005

8:30-9:00 am	Continental Breakfast/ Networking
9:00-10:30 am	Market Research
10:30-10:45 am	Break & Refreshments
10:45-12:15 pm	Concurrent Sessions <ul style="list-style-type: none">■ Advanced Techniques■ Bus Stop Inventories, the Backbone of GIS in Transit
12:15-1:30 pm	General Session Luncheon
1:30-2:00 pm	Vendor Displays

2:00-3:30 pm	Concurrent Sessions <ul style="list-style-type: none">■ GIS in Planning■ Advanced Techniques II
3:30-3:45 pm	Break & Refreshments
3:45-5:15 pm	Application Development and Training
3:45-5:15 pm	GIS in Planning II

THURSDAY, NOVEMBER 3, 2005

8:30-9:00 am	Continental Breakfast/ Networking
9:00-10:30 am	Visualization and 3D Technology
10:45-12:00 pm	Conference Closing General Session

CONFERENCE SCHEDULE

TUESDAY, NOVEMBER 1, 2005

12:15-1:30 pm **Opening Session Luncheon** *Salon E*

Moderator: Amber Reep, USF Center for Urban Transportation Research

Join us for an authentic Mediterranean-style lunch and network with your peers and industry vendors. Industry experts from local, state and federal government officials and private industry consultants will discuss the state of GIS throughout the world, and speakers will provide insights to the opportunities GIS can offer the transit industry.

- Barbara Sisson, Associate Administrator, Federal Transit Administration
- Ron Boenau, Transportation Systems Manager, Federal Transit Administration
- Ike Ubaka, Program Manager, Florida Department of Transportation
- Martin Catalá, GIS Manager, USF Center for Urban Transportation Research
- Ed Mierzejewski, Director, USF Center for Urban Transportation Research
- Joel Volinski, Director, National Center for Transit Research at CUTR

1:30-2:00 pm **Vendor Displays** *Foyer*

Vendors will display and discuss their products and services so participants can learn more about what the industry has to offer. Don't miss this valuable opportunity to see what is new and innovative in the world of GIS in Transit products and services.

2:00-3:30 pm **State of the Practice** *Salon F*

Moderator: Dr. Steve Polzin, USF Center for Urban Transportation Research

This session will feature presentations on the current utilization of GIS technology in the transit industry. Presenters will provide insights and an overview of applications throughout the country, and participants will review the opportunities that GIS offers transit properties.

- *"Advanced GIS Applications in Transit: Case Studies of Five Large Transit Agencies"*
—Dr. John Sutton, Cambridge Systematics
- *"2005 National Transit GIS Survey Results"*—Larry Harman, Geographics Laboratory

3:30-3:45 pm **Break** *Foyer*

3:45- 5:00 pm Data Integration

Salon G

Moderator: William Morris, USF Center for Urban Transportation Research

With the advancement of data collection efforts in the transit industry, the need to integrate the multiple streams of information has become increasingly important. This session will feature presentations from agencies that are integrating GIS with data collection and management efforts, such as integration with automatic passenger counters (APC) and scheduling software.

- *“Stanford University’s Transportation Management System”*—Kevin Mathy, Stanford University
- *“Using GIS to Improve Regional Public Transit Service Through Comprehensive Data Management and Analysis”*—Todd Plesko and Hope Johnson, St. Louis Metro
- *“Integrating APC Data with GIS for Automated Reporting and Internet Mapping”*—Stanimira Bourova, LYNX; Jill Stanford, Data Transfer Solutions

WEDNESDAY, NOVEMBER 2, 2005

8:30-9:00 am Continental Breakfast/Networking

Foyer

A continental breakfast will be served in the vendor display area. Participants will have the opportunity to network with peers and review the latest products and services.

9:00-10:30 am Market Research

Salon G

Moderator: Dr. Jeremy S. Wu, U.S. Bureau of the Census

The use of market research to improve transit service has always been a regular part of service planning efforts, and integrating GIS with these efforts is a natural fit. This session will feature presentations on cutting edge techniques and unique data sources.

- *“GIS for Transit Market Research and Service Planning”*—Tejaswi Tharakabhushanam, Cambridge Systematics
- *“Calculating/Analyzing Transit Dependent Populations Using 2000 Census Data and GIS”*—Todd Steiss, Parsons Brinckerhoff
- *“Using GPS-Enabled Cell Phones to Improve Multimodal Planning and Facilitate Travel Behavior Change”*—Sean Barbeau, USF Center for Urban Transportation Research

10:30-10:45 am Break

Foyer

10:45-12:15 pm **Concurrent Sessions**

Advanced Techniques I

Salon F

Moderator: Dr. Beverly Ward, University of South Florida

As GIS has evolved, its utilization has increased from simple model mapping to predictive models that continue to improve the decision making process. Participants in this session will learn about advanced planning and programming techniques. This session is a must for those looking to expand their GIS capabilities to include customized GIS applications.

- *“New Jersey TRANSIT’s Pattern-Bus Stop Association Automated Process”*—Nate Reck, GeoDecisions
- *“T-Best: A Comprehensive GIS-Based Stop-Level Transit Boarding Estimation and Simulation Tool”*—Rodney Bunner, GeoDecisions
- *“Evaluating the Impact of Changing Bus Stop Locations: A Parcel Level GIS-Based Demand Modeling Approach”*—Peter Furth and Maaza Mekuria, Northeastern University

Bus Stop Inventories, the Backbone of GIS in Transit

Salon G

Moderator: Brad Thompson, Regional Transportation Authority, Chicago

A transit agency’s bus stop inventory serves as a critical element in service planning and resource allocation. The collection and management of this important data resource is a challenge to many transit agencies. This session will examine techniques and experiences with bus stop inventory collection and management.

- *“Bus Stop Inventory and Data Management: A Spatial Database Approach”*—Donna Huey, PBS&J
- *“Automated Transit Stop Inventory Model”*—Ike Ubaka, Florida Department of Transportation
- *“Mobile Data Collection: Lessons for a Bus Stop Inventory”*—Martin Catalá, Center for Urban Transportation Research

12:15-1:30 pm **General Session Luncheon**

Salon E

“Longitudinal Employer-Household Dynamics (LEHD) Program”—Dr. Jeremy S. Wu, Manager, U.S. Bureau of the Census

“On The Map” is a new, online, interactive mapping tool from the Census Bureau that is in its final stage of beta testing. This powerful tool depicts new information on worker origin-destination (home-work) patterns at the block-group level for 14 pilot states. By integrating data from multiple sources, including administrative records, surveys, and censuses, this information has not been available before. The discussion will cover a demonstration of the program, its data infrastructure, and its potentials for transit planning and analysis.

1:30-2:00 pm

Vendor Displays

Foyer

2:00-3:30 pm

Concurrent Sessions

GIS in Planning I

Salon G

Moderator: Kris Bezdecny, USF Center for Urban Transportation Research

GIS provides transit agencies with a wealth of data and analytical approaches. This session will detail how the data is used in the planning process, such as measured impacts from policy choices and safety concerns. Participants will learn techniques for using GIS to assist with the planning process.

- *“Are Transit Stops Safe and Accessible?”—Srinvas Pulugurtha University of North Carolina-Charlotte*
- *“Evaluation of Regional Impacts of Transit Signal Priority Using a Dynamic Traffic Assignment and Simulation Model”—Elaine Chang, University of South Florida*
- *“Deconcentration and Access: Assessing the Transportation Impacts of Public Housing Relocations”—Dr. Beverly Ward, University of South Florida*

Advanced Techniques II

Salon F

Moderator: Joel Volinski, National Center for Transit Research

- *“LiDar and Video Logging-Based Rail GIS Applications at NJ Transit”—Louis Millan, New Jersey Transit Corporation*
- *“Reorganization of the Public School Transport System in a Specific Area of Bogotá, Colombia”—Liliana Lucia Lyons, Carlos Andres Vargas, and Alejandro Machado Valencia; National University of Colombia*
- *“A Trip Planner Interface with ArcGIS and HASTUS”—Kelly Chan, Geographia Generalis*

3:30-3:45 pm

Break

Vendor Display Area

3:45-5:15 pm

Application Development and Training

Salon F

Moderator: Dr. Steve Polzin, USF Center for Urban Transportation Research

The dissemination of information is at the core of GIS's strength. The use of maps to quickly and effectively communicate data and information is what make GIS such a powerful tool. Participants will see examples of how GIS has been used on the web to share information and findings, including on-line GIS training, accessing GIS data online, and web-based mapping

applications. This session is essential for all transit agencies that are looking to take the next step with GIS utilization.

- *“Regional Transportation Asset Management System”*—Brad Thompson, Regional Transportation Authority
- *“Florida Transit Geographic Information System (FTGIS)”*—Albert Gan, Florida International University

3:45-5:15 pm GIS in Planning II

Salon G

Moderator: Matt Goddard, Trapeze Group

- *“The Three-Legged Stool: Integrating Geographics, Scheduling, and Bus Stop Information”*—Mike Berman, King County Metro Transit
- *“Multimodal Accessibilities Analysis: Using GIS to Integrate Multimodal LOS and Land Use”*—Demian Miller, Tindale-Oliver & Associates

THURSDAY, NOVEMBER 3, 2005

8:30-9:00 am Continental Breakfast/Networking

Foyer

9:00-10:30 am Visualization and 3D Technology

Salon F

Moderator: Martin Catalá, USF Center for Urban Transportation Research

As GIS has moved from the 2D (map) to the 3D world, many opportunities and applications have arisen. The power of a 3D rendering of a transit corridor or even a simple map can serve as a powerful tool for transit agencies that are communicating a vision. Participants in this session will see examples of 3D GIS integration.

- *“GIS in Support of Transit Mobility”*—Mary Stallings, Grimail Crawford, Inc.
- *“3D Visualization Tools In Planning: An Interactive, Internet-Based Approach”*—Jamie Robe, Hillsborough Planning Commission

10:45-12:00 pm Conference Closing General Session

Salon E

The final session will serve as a wrap-up and reflect on the state of GIS in transit. Through open discussion, participation will interact with a panel of experts to discuss future opportunities and existing pitfalls to GIS in transit, including barriers to success, institutional opportunities, data sharing, mobile mapping integration with intelligent transportation systems (ITS), and GIS customization, as well as a look to the future, focusing on applications that need to be developed and support from FTA.

PLACES OF TAMPA BAY

Busch Gardens Tampa Bay is the ultimate family adventure park offering an array of fascinating attractions based on exotic encounters with the African continent. A unique blend of thrilling rides, one of the country's premiere zoos featuring more than 2,700 animals, live shows, restaurants, shops and games, Busch Gardens Tampa Bay provides unrivaled "real" excitement for guests of every age. (www.buschgardens.com, 813/984-4043)

Adventure Island, Tampa Bay's 30 acres of water-drenched fun in the sun, features the ultimate combination of high-speed thrills and tropical, tranquil surroundings for guests of all ages. Within a Key West atmosphere awaits an unrivaled blend of slides, corkscrews, waterfalls, a wave pool, children's water playground and other family attractions. (www.adventureisland.com, 888/800-5447)

The Museum of Science & Industry (MOSI) is a community-based institution and educational resource dedicated to advancing a knowledge and understanding of science, industry, and technology featuring hands-on activities and experiments. The IMAX Dome at MOSI is a motion picture system of unsurpassed size, sound, clarity, and impact on a 10,500 SF dome-shaped screen. (www.mosi.org, 813/987-6100)

Florida Aquarium at Channelside features more than 10,000 aquatic plants and animals, and sea life native to Florida and from all over the globe. Child-friendly exhibits including petting tanks abound. (www.flaquarium.net, 813/273-4042)

Lowry Park Zoo offers enjoyment for the young and young at heart. Visit more than 1,600 animals in lush habitats and enjoy our rides, water play areas, shows and restaurants. (813/935-8552)

Salvador Dali Museum in St. Petersburg is the permanent home of the world's most comprehensive collection of the renowned Spanish artist's work. Compiled by the A. Reynolds Morse and Eleanor Morse over a 45-year period, it is celebrated for its 95 oil paintings, and features excellent examples from Dalí's four major periods. (727/823-3767)

Henry B. Plant Museum is housed at the University of Tampa campus in the 1891 Tampa Bay Hotel and is now a National Historic Landmark. Built by Henry Plant, the transportation magnet instrumental in the development of Florida. (813/254-1891)

MALLS

International Mall—Tampa's newest upscale shopping mall, anchored by Neiman-Marcus, Nordstrom, and Dillard's. Unique stores such as Coach, Cole Haan, Versace, Tiffany's, and Brighton. An outdoor mall coincides with International Mall featuring the Cheesecake Factory and other eateries and vendors.

RESTAURANTS

BERN'S: 1208 S. Howard Avenue

CHEESECAKE FACTORY: International Mall

LANDRY'S SEAFOOD HOUSE: 7616 Courtney Campbell Causeway

LEE ROY SELMON'S: 4302 W. Boy Scout Road

PELAGIA TRATTORIA: Renaissance Marriott-International Plaza

RUTH'S CHRIS' STEAKHOUSE: 1700 Westshore Boulevard

TOOJAY'S ORIGINAL GOURMET DELI: International Mall

TRAVEL INFORMATION

Tampa International Airport (TIA) www.tampaairport.com (813.870.8700)

St. Petersburg/Clearwater International Airport (www.fly2pie.com, 727/453-7800)

VENDORS

The National Center for Transit Research would like to officially recognize and thank the vendor sponsors for supporting the NCTR, GIS in Transit Conference.

Each of the vendors provide products and services which have helped to move geographic information systems into a new age. Their innovations and expertise are unparalleled.

Please take this opportunity to visit with some of the leading GIS in transit vendors.



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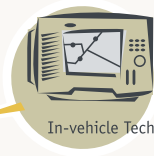
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