

Preliminary Program

2009 North Carolina Geographic Information Systems Conference

Calendar

Thursday, February 19, 2009

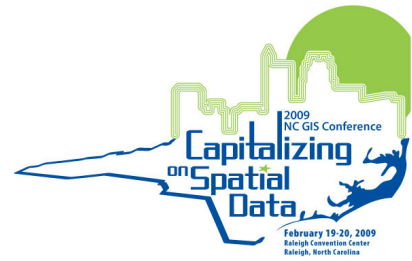
8:00 am — 7:00 pm	Registration / Exhibit Hall Open	<i>Ballrooms B & C</i>
10:00 am — 10:30 am	Plenary Session Welcome Honorable Charles Meeker, Mayor, City of Raleigh Welcome from URISA Susan Johnson, Past President, URISA Kristian Forslin, President, Carolina URISA Overview of Conference Tim Johnson, Conference Chair Director, Center for Geographic Information & Analysis Presentation of G. Herbert Stout Local Government Award Tim Johnson, Conference Chair Mrs. Lewanna Stout	<i>Ballroom A</i>
10:45 am — 11:30 am	Concurrent Sessions (see detailed program)	
11:30 am — 1:30 pm	Box Lunch	<i>Ballrooms B & C</i>
1:30 pm — 5:00 pm	Concurrent Sessions (see detailed program)	
5:00 pm — 7:00 pm	Poster Session and Social	<i>Ballrooms B & C</i>

Friday, February 20, 2009

8:00 am — 12:00 pm	Registration / Exhibit Hall Open	<i>Ballrooms B & C</i>
8:30 am — 12:00 pm	Concurrent Sessions (see detailed program)	
12:00 pm — 1:30 pm	Luncheon Presentation of G. Herbert Stout Student Awards Special Presentation – TBA TBA, Master of Ceremonies	<i>Ballroom A</i>
1:30 pm — 3:00 pm	Concurrent Sessions (see detailed program)	

Session Track Descriptions

Concurrent sessions are grouped into the eight tracks described below. Tracks 1-5 and the G. Herbert Stout Award-Winning Student Presentations cover both Thursday and Friday. Track 6, and several special sessions are on Thursday only and Tracks 7 and 8 are on Friday only.



Track 1 That's Cool! What's Hot?

Geospatial technology continues its explosive growth. This track explores some of the “hottest” new geospatial innovations – things that will make you say “Wow, that’s really cool! I need that!”

Track 2 Modeling the Environment

From the coast to the mountains, GIS is being used to model, monitor and better manage North Carolina's unique environment. Whether working to improve our water, land and air quality, guide our growth or manage our resources, North Carolina is developing innovative and effective GIS tools to improve our state's natural assets.

Track 3 Expanding Your GIS Footprint

Once the domain of geographers and workstation GIS commandos, spatial data and analysis are now part of a mainstream technology that is used and demanded by an ever increasing audience. This growth has led to new users and applications of the technology as well as new considerations about its use.

Track 4 Managing the Enterprise

The expanded use of GIS across an organization requires a holistic, agency-wide or enterprise approach for planning, implementing and managing geospatial investments. Components of enterprise GIS will be presented, including enterprise architecture planning, master data management, business process workflows, standards, best practices and geospatial integration with key business systems.

Track 5 Using Data to Do Your Job

Because data represent the basic building blocks for all work accomplished in the geospatial world, the care and feeding of this vital resource are of utmost importance. Topics include the collection, stewardship, sharing, documentation, archiving, storage and maintenance of geospatial content.

Track 6 Protect and Serve

In a time when communities face unanticipated and often climatic events, GIS technology plays an increasingly critical role in both anticipating and reacting to events. GIS tools and data enable responders to better analyze and fight crime and to better prepare for and respond to natural and man-made threats to our communities and citizens.

Track 7
Planning for Growth

North Carolina, with a population that is approaching 10 million, ranks high nationally in growth rate and in-migration. Growth places a heavy burden on our environment and infrastructure. Around the state, GIS professionals are using their skills and expertise to help manage and plan for that growth.

Track 8
The GIS Professional

The GIS Professional faces a host of challenges and a constantly changing environment related to responsible data management and personal professional growth. Learn how GIS professionals are thriving.

Special Sessions
GIS in the Classroom

The 2009 conference again showcases K-12 students using GIS in the classroom. A special panel will explore the challenges and opportunities for enhancing GIS education at the K-12 level.

The 2010 Census

The 2010 Census is only months away. Representatives of the Bureau of the Census will describe the process and products that will be available to GIS users.

G. Herbert Stout Student Award Presentations	The NC GIS Conference once again features undergraduate and graduate student presentations. The 2009 conference anticipates a record number of students and participating universities and colleges since the awards began six conferences ago.
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AICP Certification - Session titles in blue indicate that the sessions qualify for AICP certification credit.

Preliminary Program

Concurrent Sessions – Thursday, February 19

Sessions highlighted in blue qualify for AICP certification credit.

10:45 am – 11:30 am

Track 1 **Brand New, Yet Still Mainstream**

306 A

This session features innovative new features from the traditional geospatial community.

Moderator TBA

“zigGIS and PostGIS: The Elephant in The Map Room,” Abe Gillespie, Obtuse Software
“Leveraging the Open Source Rapid Land Cover Mapper Application to Efficiently Create and Update High Resolution Land Cover Data,” Lloyd Edwards, Appalachian State University

Track 2 **Monitoring the Air**

302 A

Recent industrial accidents and power station permitting processes have highlighted the importance of modeling air flow and tracking air quality. Geospatial technologies provide a means to analyze air change and air movement.

Moderator Greg Dobson, RENCI at UNC Asheville

“GIS and Air Quality: PM2.5 Source Appointment Study for the HickoryMetro Area,” Lisa Murphy, Louis Berger Group
“Geospatial Tools for Smoke Management,” Scott Goodrick, US Forest Service

Track 3 **Geo-Launching Your Organization**

306 B&C

Organizations that have recently created or significantly enhanced their GIS presence describe their experience in implementing GIS and discuss lessons learned.

Moderator Chase Barnard, Town of Chapel Hill

“Geo-Launching Your Organization - Three Perspectives”
Panel
James Armstrong, Richmond County
Caroline Harper, Wake County
James Tortorella, NC DOT

Track 4 **GIS Governance**

305 A&B

As GIS becomes integral for service delivery across multiple lines of business, agencies experience challenges in developing a streamlined governance framework. This session examines two efforts that promise the benefits of enterprise GIS.

“Enterprise GIS Governance,” Twyla McDermott, City of Charlotte

“The GICC Governance Model,” Julie Stamper, Pasquotank County and GICC member

Moderator Chase Barnard, Town of Chapel Hill

Track 5 Making Data Work for Everyone

301 A&B

This session highlights activities that exemplify the decision-making framework for development of best practices and guidelines in our statewide community.

“Your GICC Working for You,” Lee Mandell, NC Geographic Information Coordinating Council Panel

“Data Sharing Guidelines,” Colleen Sharpe, City of Raleigh

“Archival and Long-Term Preservation Guidelines,” Anne Payne, Wake County

“Statewide Street Centerline Exchange,” Alex Rickard, Eastern Carolina Council

“Statewide Seamless Parcels,” Pam Carver, Henderson County

“Orthophotography Cost Share Program,” Zsolt Nagy, NC CGIA

“US National Grid – A Presentation Feature for Emergencies,” Harry Lee, Currituck County

Moderator Lee Mandell, Chair, NC Geographic Information Coordinating Council

Track 6 Disaster Management and Readiness

302 B

This session highlights examples of programs that have developed tools and data to manage critical situations.

“Using GIS to Streamline Public Health Response,” Steve Ramsey, Guilford County

“Hazard Analyst - State Tool for Hazard Preparedness,” Hope Morgan, NC Floodplain Mapping Program and Richard Fogleman, AECOM

Moderator Tim Lesser, ROK Technologies

Special The Census is Coming!

302 C

The Census is coming! How will it affect your organization?

“You Can’t Take a Census without Geography,” David Wiggins, US Bureau of the Census

Moderator TBA

11:30 am – 1:30 pm

Box Lunch

Ballrooms B&C

1:30 pm – 3:00 pm

Track 1 Hot “Where-ware”

306 A

Exciting new hardware that helps bring the “Where” to your business process.

Moderator TBA

“The Homeland Emergency Response Exchange (HERE) Network Mobile Client,”
“Dennis Burling, State of Nebraska DEQ
“Tangible Geospatial Modeling System Using GRASS GIS,” “Helena Mitasova, NC State University
“Digital Aerial Sketchmapping - Heads Up Digitizing on the Fly,” Rob Trickle, NC Division of Forest Resources

Track 2 Water Quality and Quantity

302 A

Explore the effect of land use change on watersheds and programs to monitor groundwater and wells.

Moderator TBA

“GIS as an Investigative Tool: Point Source Contamination of Groundwater and Private Wells,” Kathy Wolfe, Iredell County
“Land Cover Change in the Catawba River Watershed,” Rodney Jackson, Central Piedmont Community College
“Analyzing Ground Water and Surface Water Data in Web Applications,” Melinda Chapman and Chad Wagner, USGS

Track 3 Better Government through Better GIS - Part I

306 B&C

Can government make better decisions? What about saving time? Or streamlining work flows? Or, most importantly, saving money or doing more for the same money?

Moderator TBA

“Balancing Land Development and Conservation with Suitability Maps,” Jon Parsons, Sustainable Sandhills
“Is Your Town Missing Out on \$450,000?,” Jeff Triezenberg, Town of Knightdale
“The North Carolina Economic Development Intelligence System,” John Correllus, NC Department of Commerce

Track 4 The Enterprise GIS Life Cycle

305 A&B

The potential of widely available geospatial information and improvements in productivity are driving enterprise GIS implementation.

Moderator Jun Wu, NC DOT

“Enterprise GIS Project Management: Principles and Practices,” Patrick Noonan, PJN Consulting
“Enterprise GIS Program Management – NC GIS Study,” Tim Johnson, NC CGIA
“Enterprise GIS Return on Investment,” Christian Carlson, ESRI

Track 5 Data for a Statewide Community

301 A&B

Session 1 explored how we solve problems and address opportunities as a community. A panel explores, in more detail, collaborative efforts to develop, maintain and provide access to commonly needed data in support of business requirements in the county, regions and across the state.

Moderator Zsolt Nagy, NC CGIA

“Data for a Statewide Community”
Panel
David Giordano, NC CGIA
Tom Morgan, NC Land Records Mgmt. Program
Anne Payne, Wake County
Alex Rickard, Eastern Carolina Council
TBA

Track 6 GIS Support Tools for Emergency Management

302 B

Emergency Management officials and first responders need tools in place to respond to security threats and natural disasters.

Moderator Todd Wilson, Mecklenburg County

“Charlotte-Mecklenburg Regional Urban Areas Security Initiative GIS Tool,” Lakshmanan Krishnan, Mecklenburg County
“Public GIS, Automated Vehicle Tracking, and the NC GIS Disaster Volunteer Program,” Scott Madry, RENCI. Co-author: Greg Dobson, UNC Asheville
“Improving Fire Response Times and Unit Protocol,” Alex Smith, Richland County, SC

Special GIS in the Classroom: K-12 Presentations

302 C

Students present exciting examples of how they are using GIS in the classroom.

Moderator Pete Kennedy, Asheville-Buncombe Technical College

“Talking Trash,” Amy Durden, City of Elizabeth City, Andrew Bonn, Erin Dunn, Dylan Gries, Carson O’Dell, Robert Woodhouse and Tyler Woodhouse, CamTech High School
“The Alexander County Mapbook,” Eric Walker and Tyler Stafford, Alexander Central High School, George Brown, Alexander County
“TBA,” Centennial Campus Middle School, Betty Welsh and students to be named

Special Award-Winning Graduate Student Presentations **303**
This session recognizes the winners of the G. Herbert Stout Awards for Innovative Student Papers.

Moderator TBA

“Analysis of Housing Development Patterns in Watauga County, NC Derived from Density Surfaces of Tax Parcel Data,” Austin Chamberlain, Appalachian State University
“Indoor 3D Coverage Modeling to Optimize Defibrillator’s Placement,” Thi Hong Diep Dao, UNC Charlotte
“Presentation 3,” TBA, UNC Greensboro

3:00 pm – 3:30 pm

Break

3:30 pm – 5:00 pm

Track 1 FOSS4G Free for All **306 A**

Learn how to integrate open source GIS into your workflow.

Moderator TBA

“Presentation 1,” TBA
“Mecklenburg County's Geospatial Portal,” Tobin Bradley, Mecklenburg County
“Introduction to OSGEO's and MetaCarta's OpenLayers,” Chander Ganesan, Open Technology Group

Track 2 NC’s Dynamic Coast **302 A**

North Carolina’s coastal resources are vulnerable to many hazards. This session will explore geospatial tools and spatial and temporal data for evaluating resource availability and vulnerability to current and future hazards.

Moderator TBA

“Modeling and Visualization for the North Carolina Coastal Hazards Decision Portal,” J.P. Walsh, East Carolina University. Co-authors: Tom Allen, Tom Crawford, Stephen Sanchagrin, Scott Wade, East Carolina University
“2D and 3D Raster Analysis of Coastal LIDAR Data Time Series,” Margery Overton, NC State University
“The Digital Coast,” Rebecca Love, NOAA Coastal Services Center

Track 3 Better Government through Better GIS – Part II **306 B&C**

Can government make better decisions? What about saving time? Or streamlining work flows Or, most importantly, saving money or doing more for the same money?

Moderator Martha Wells, Spatial Focus, Inc.

“Using Geodata Web Services to Facilitate Inter-Jurisdictional Coordination,” Steve Averett, Orange County

“Presentation 2,” TBA

“Effectively Managing North Carolina’s Real Estate Portfolio,” John Cox, State Property Office

Track 4 Enterprise Architecture Planning

305 A&B

Architecture design is fundamental to enterprise GIS. Understanding technology alternatives and choosing the right architecture to support your specific business needs are essential.

Moderator Kelly Loughton, Davenport Group

“Enterprise Geospatial Architecture,” Doug Nebert, Federal Geographic Data Committee

“MSD of Buncombe County Serves as Model Project in System Architecture Assessment,” Kathryn Brewer, MSD of Buncombe County

“Gaston County’s Award-Winning Architecture Provides Business Continuity for GIS,” Brandon Jackson, Gaston County

Track 5 It’s All About the Land! – The Importance of Land Records

301 A&B

Parcel data is the basemap for many local data sets and provides the backbone for many others at the state, federal, and regional levels, as well as the private sector. This session covers the ways we develop, enhance and share this important resource.

Moderator TBA

“Using GIS to Locate the County Line,” Charles Friddle, Wake County

“Digital Data Submission: Improving Development Plan Review and Data Maintenance,” Pat Bresnahan, Mountain House Consulting

“Don’t Blame the Parcel – It Wants to Fit In! National and NC Initiatives for Seamless Parcels,” Pam Carver, Henderson County; Tom Morgan, NC Land Records Management Program; and Nancy von Meyer, Fairview Industries,

Track 6 GIS and Crime

302 B

GIS is becoming increasingly integral to crime analysis and criminal investigations.

Moderator TBA

“Intelligent Policing for a Safer Community,” Doug Hasman, City of Shelby

“The Effects of the 2006 Annexation of Winston-Salem on Urban Crime Patterns,” Tim Mulrooney, Winston-Salem State University

“Gangs, Guns, Drugs, & Delinquency: The Role of GIS in a Violent World,” Laurie Garo, UNC Charlotte

Special GIS in the Classroom: Challenges and Opportunities

302 C

Educators from inside and outside North Carolina explore the use of GIS in education nationally and in North Carolina.

Moderator DeeDee Whitaker,

“Presentation 1,” Allen Carroll, National Geographic Society
“Integrating GIS into K-12 Education: Curricula and Challenges,” Bob Kolvoord, James Madison University

Panel

Allen Carroll, National Geographic Society
Bob Kolvoord, James Madison University
Eric Walker, Alexander Central High School
Betty Welsh, Centennial Campus Middle School

Special Award-Winning Graduate Student Presentations

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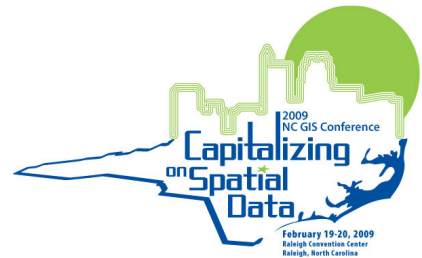
Moderator TBA

“Presentation 1,” TBA, NC State University
“Presentation 2,” TBA, UNC Wilmington
“Characterizing Jurisdictional Wetlands Using Aerial LIDAR,” David Shaeffer, East Carolina University

5:00 pm – 7:00 pm

Poster Session and Social

Ballrooms B & C



Concurrent Sessions – Friday, February 20

8:30 am – 10:00 am

Track 1 Using LIDAR to Measure the Weeds to the Treetops

306 A

Statewide LIDAR data provides GIS users with a wealth of information. We have moved beyond its use as a highly accurate elevation basemap to modeling, feature interpretation and fusion with other datasets. LIDAR-derivatives are used to produce products that are useful in planning, environmental monitoring and management.

“Using LIDAR To Determine Bridge Inundation for New Reservoirs,” Michael Schoen, NC DOT
“Using Multi-Return LIDAR for State-Wide Canopy Height Mapping,” Doug Newcomb, US Fish & Wildlife Service
“Water from Thin Air: Using LIDAR to Develop Baseline Stream Centerline Inventory,” Tom Colson, NC State University

Moderator Silvia Terziotti, USGS

Track 2 Suitability Modeling

302 A

What is the best use of land? Development often occurs on an “ad hoc” basis. This session showcases GIS-based modeling techniques for analyzing the “most suitable” current and future use of the landscape.

“Web-Based Analytics for Finding A Suitable Place: mapAsheville - Priority Places,” Jason Mann, City of Asheville
“NC Department of Agriculture's Farmland Preservation Model,” Dan Madding, NC Dept. of Ag&CS
“A Working Forest Lands Assessment for the One NC Naturally Conservation Planning Tool,” Andrew Bailey, NC Division of Forest Resources

Moderator Susan Pulsiper, NC Division of Community Assistance

Track 3 GIS for Citizens – Part I

306 B&C

Government agencies and other organizations are using innovative GIS applications to better serve citizens.

“Geotourism, LandScope Mapping and Map-Based Storytelling at National Geographic,” Allen Carroll, National Geographic Society
“A GIS-Based Natural Resource Conservation Planning Tool for a Sustainable NC,” Kim Douglass, NC DENR
“Mapping Your Ancestry: GIS and Genealogy,” Julie Stamper, Pasquotank County

Moderator Ron Hancock, NC Division of Community Assistance

Track 4 Master Data Management

305 A&B

This session introduces the principles of Master Data Management as an organizational commitment to secure and improve the accuracy and integrity of data and resolve inconsistencies.

Moderator Twyla McDermott, City of Charlotte

“Introduction to Master Data Management,” Twyla McDermott, City of Charlotte,
“Developing a Standards Compliant Enterprise Address Repository,” Martha Wells, Spatial Focus and Ted Cisine, Cabarrus County
“The North Carolina Master Address Data Set,” Joe Sewash, NC CGIA and Bob Coats, NC State Data Center

Track 5 National Directions and Guidelines

301 A&B

North Carolina is affected by programs and tools and standards adopted for the nation. This session describes national activities and their impact on the North Carolina GIS community.

Moderator Lynda Wayne, GeoMaxim

“The U.S. National Grid,” Jeff Brown, NC CGIA
“How Federal Programs Affect Your Job”
Panel
Susan Johnson, Charlotte Mecklenburg Schools
Zsolt Nagy, NC CGIA
Ken Shaffer, Federal Geographic Data Committee
Steve Strader, USGS National Geospatial Programs Office
TBA

Track 7 Managing Utilities with GIS

302 B

How are private and public utilities using GIS to deal with the growth that our State is experiencing? From storm water to natural gas to sanitary sewer, GIS is being used in new, creative and effective ways.

Moderator Rob Floyd, ARCADIS

“Evaluating Feature-Extracted Impervious Surfaces in Support of Stormwater Utility Billing,” Nick Harvey, City of Asheville and Frank Obusek, NC CGIA
“Satellite Imagery: A Crucial Resource in Municipal Stormwater Billing,” Edward Cherry, City of Durham
“Landbase Replacement & Asset Conflation,” Andrew Vondrak, Piedmont Natural Gas

Track 8 Responsible Data Management

302 C

Managing data responsibly is perhaps the biggest challenge GIS Managers face. How do your colleagues meet this challenge?

Moderator TBA

“Best Practices for Data Sharing,” Kathryn Brewer, MSD of Buncombe County
“Best Practices for Archival and Retention of Geospatial Data,” John Gallimore, Davie County
“Geodesy for GIS Professionals,” Gary Thompson, NC Geodetic Survey

Special Award-Winning Undergraduate Student Presentations

303

This session recognizes the winners of the G. Herbert Stout Awards for Innovative Student Papers.

Moderator TBA

“Understanding Canopy Characteristics for Mapping Deciduous Forest Land in Jackson County, NC,” Staci Mellon, Western Carolina University

“Bank Geomorphology of the Haw River, NC,” Paul Robinette, Elon University

“A Comparison of Image Enhancement and Classification Techniques to Aid Feature Detection in Arid Environments,” Ray Aull, Appalachian State University

“Presentation 4,” TBA, Haywood Community College

10:00 am – 10:30 am

Break

10:30 am – 12:00 pm

Track 1 Mashing Your Way through the Mapping API Maze

306 A

A healthy collection of commercial and open source mapping APIs and earth browsers are available and allow developers to embed many different types of spatial and visualization functions into applications with surprising ease.

“Applying Lessons Learned from Neogeography to GIS,” Andrew Turner, FortiusOne

“Empowering Environmental Communities with Google Maps API: The North Carolina Muddy Water Watch Project,” Wansoo Im, VERTICES

“Mashing Up ArcGIS Server Services with Google Maps,” Nianwei Liu, City of Charlotte

Moderator TBA

Track 2 Analyzing Growth Effects

302 A

Learn how agencies, large and small, are using GIS to manage the impact of human development.

“Mecklenburg County Park and Recreation Greenprint Model,” Scott Black, Mecklenburg County

“The Effect of Disturbance on the Spread of Invasive Plant Species in the Haw River Watershed,” Ashley Steele, Elon University

“Looking into the Future with CommunityViz,” Camille Barchers, Urban Resource Group

Moderator Paul Black, Triangle J COG

Track 3 GIS for Citizens – Part II

306 B&C

Mapmakers and GIS users help citizens better understand their community.

Moderator TBA

“Utilization of GIS Mapping and Technology to Increase Community Capacity for Physical Activity,” Perver Baran, NC State University
“Community GIS: What We Have Learned from mapAsheville,” Jason Mann, City of Asheville
“Geographic? Information? Systems?,” Denis Wood

Track 4 Business System Integration

305 A&B

Learn how geospatial data enhances non-GIS applications to deliver greater economic value to the enterprise.

Moderator TBA

“Geospatial Service Oriented Architecture (SOA),” Dale Loberger, ESRI
“A SOA Approach for Extending GIS for Customer Relationship Management,” Todd Ferguson, City of Greensboro

Track 5 It’s All About the Imagery – Perspectives on Raster Data

301 A&B

Imagery and raster data are proving to be an invaluable resource for GIS database development, data analysis and supplying end user information.

Moderator Gary Thompson, NC Geodetic Survey

“Digital Cameras vs. Traditional Film for Orthophotos,” Keith Johnston, NC DOT
“Modernizing Historic Aerial Photography for the GIS World,” Ted Cisine, Cabarrus County
“Finding Imagery to Meet Your Needs”
Panel
Dan Madding, NC Dept. of Ag&CS
Hope Morgan, NC Floodplain Mapping Program
Frank Obusek, NC CGIA
Steve Strader, US Geological Survey

Track 7 Managing Transportation with GIS

302 B

Managing, routing and maintaining our transit and transportation assets have become increasingly important in a growing State. Learn how GIS is being used at local and state levels to improve efficiency.

Moderator TBA

“GIS in the Charlotte Area Transit System,” Neil Hohmann, City of Charlotte
“Automated Asset Inventory Data Collection,” Daniel Findley, NCSU ITRE
“Finding the Sidewalks: Bicycle & Pedestrian Facility Inventory Using GPS/GIS,” Chris Lukasina, Jacksonville MPO

Track 8 The Evolving World of the GIS Professional

302 C

The world of the geospatial professional has changed dramatically over the last decade. This session provides an overview of technical, social and management changes and a review of a GIS service delivery model that illustrates the positive aspects of these changes.

Moderator TBA

“The Changing Geospatial Landscape,” David Cowen, University of South Carolina, Retired
“The URISA GISCorps and the Myanmar Cyclone Project,” Scott Madry, RENCI

Special Award-Winning Undergraduate Student Presentations

303

This session recognizes the winners of the G. Herbert Stout Awards for Innovative Student Papers.

Moderator TBA

“Incorporating Spatial Methods into a Malaria Vaccine Trial in Lilongwe, Malawi,” Cameron Taylor, UNC Chapel Hill
“Creating Geospatial Decision Support Tools for Regional Decision Makers,” Clay Tabor, UNC Asheville
“Investigating LIDAR Data at the Bent Creek Experimental Forest,” Christopher Fusting, Warren Wilson College
“Effects of Spatial Grain on Performance of Urban Growth Models,” Jessica Edwards, UNC Charlotte

12:00 pm – 1:30 pm Luncheon

Ballroom A

Tim Johnson, Conference Chair and Host

Presentation of G. Herbert Stout Awards for Innovative Student Papers

“LUNCH Presentation” - TBA

1:30 pm – 3:00 pm

Track 1 The GeoWeb @ Your Service

306 A

Web service platforms and protocols abound, many with sophisticated geospatial capabilities. Take a look at the future of GIS services.

Moderator Julia Harrell, NC DENR

“Filling Potholes in the Spatial Data Infrastructure: Geodata Sync and Subscribe with GeoAtom,” Raj Singh, Open Geospatial Consortium

“From Local to Community Schemas - Lessons from the Cross-Border SDI Project,” Jeff Harrison, The Carbon Project

“Transitioning your ArcIMS Applications to ArcGIS Server with the JavaScript and REST APIs,” Jason Harris, ROK Technologies

Track 2 Geospatial Tools in the Regulatory Process

302 A

This session examines how GIS technology can improve access to data that are needed for the regulatory process.

Moderator Jim Fox, RENCi at UNC Asheville

“Cutting Edge Collaboration and Technology,” Gene Hume, Buncombe County. Co-authors: Greg Dobson, Jim Fox, RENCi at UNCA, Jason Mann, City of Asheville, Vicki Magness, Buncombe Co

“City-County Tree Canopy Project: Classification, Generation, Analysis and Benefits,” Lori Quinn, City of Charlotte

“Online Geographic Document Distribution System Using GIS and Google Earth,” Melanie Williams, NC Division of Water Quality

Track 3 Discovering Our History through GIS

306 B&C

Three fascinating and innovative uses of GIS that improve our understanding of history and how we experience it.

Moderator Jeff Essic, NC State University

“The Use of Spatial Modeling and Ray Casting to Determine the Camera Locations of Historic Gettysburg Photographs,” Thomas Danninger, NC State University

“Opening the Appalachians: 200 Years of Transportation Changes in WNC,” Ryan Kirk, Elon University

“Going to the Show - Using GIS to Contextualize Movie Going,” Elise Moore and Kevin Eckhardt, UNC Chapel Hill

Track 4 Information Dissemination Principles

305 A&B

Information has little value unless it can be communicated effectively. Well designed maps and user interfaces require knowledge of design principles to effectively communicate with all types of users.

“Mashups - The Impacts of Commercial Internet Applications,” Wansoo Im, VERTICES
“Book Design as a Paradigm for User Interface Design,” Michael Waltuch, ESRI
“Enhancing Cartographic Communication With Basic Design Principles,” Jeff Simpson, simpsonmaps

Moderator Julie Stamper,
Pasquotank County

Track 5 Tools and Techniques for Data Management

301 A&B

GIS users face a growing challenge of effectively managing and analyzing large and increasingly complex datasets. This session will explore tools and techniques for data management and data processing.

“Implementing National Geospatial Models,” Steven Johnson, Traverse Technologies
“Enterprise Geodatabase Performance Testing,” Dana Nibby, NC DOT
“GPS Data Management and Processing in Transportation,” David Johnson, NC DOT

Moderator TBA

Track 7 Work Order and Asset Management Systems

302 B

Work Order and Asset Management Systems provide tools for effectively managing geospatial data. Which system best fits my organization's needs and goals? Users discuss the functionality of several popular systems and share their integration experiences.

“CityWorks at the City of Raleigh,” Beth Stagner, City of Raleigh
“Asset Management Using Hansen IMS,” Ray Kurtiak, City of Gastonia
“Maximo and the City of Asheville, NC,” tony Reed, City of Asheville
“Enterprise Solutions for GIS and Asset Management-Info EAM Integration,” Steve Sherman, City of Greensboro

Moderator TBA

Track 8 Certification, Licensing and Surveying – Issues for the GIS Professional

302 C

GISCI/GISP/PLS/GPS/NCBELS – If this makes sense to you, we have the PERFECT session for you! If not, better come and find out.

“The Future of GIS Professional Certification,” Al Butler, MilePost Zero
“The Model Law – Who Has the Right-of-Way?” Panel
Al Butler, MilePost Zero
Alex Fuller, The Wooten Company
Alex Rickard, Eastern Carolina Council

Moderator Janet Jackson,

McKim & Creed

Special Award-Winning Undergraduate Student Presentations

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“Presentation 1,” TBA, NC State University

“Presentation 2,” TBA, UNC Greensboro

“Presentation 3,” TBA, UNC Wilmington

“Presentation 4,” TBA