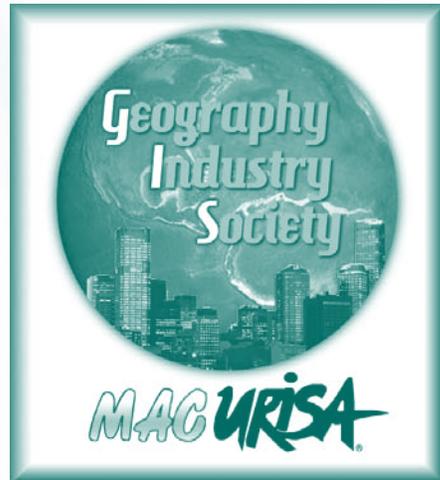


FINAL PROGRAM



The Mid-Atlantic Chapter of URISA's 14th Regional GIS Conference Geography • Industry • Society

**April 7-9, 2008
Burlington County College
Enterprise Center
Mount Laurel, NJ**

**GISCI Certification points
earned for attending one
workshop and the Conference
= 0.4 GISCI education points.**

MAC URISA 2008 Conference-at-a-Glance

Monday, April 7, 2008

8:30 AM–5:00 PM Pre-Conference Workshops (choose one of five):

(WK-1) Introduction to GIS <i>Pemberton A</i>	(WK-2) Introduction to GPS <i>Burlington</i>	(WK-3) GIS Program Management <i>Mount Holly</i>	(WK-4) 3D Geospatial Best Practices <i>Willingboro</i>	(WK-5) Quality Management and Intro to Issue Tracking <i>Pemberton B</i>
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Tuesday, April 8, 2008

7:00–10:00 AM	Breakfast and Registration			
7:00 AM–7:00 PM	Exhibit Hall Hours and Poster Display			
8:30–10:00 AM	Welcome & Keynote Address: Dr. David Robinson, NJ State Climatologist, Rutgers University, <i>Auditorium</i>			
10:00–10:30 AM	Morning Break, <i>Exhibit Hall</i>			
10:30 AM–12:00 NOON	Emergency Management <i>Auditorium</i>	Data Collection and Updating Techniques <i>Mount Holly</i>	Urban Redevelopment <i>Willingboro</i>	Interactive Expo <i>Evesham</i>
12:00–2:00 PM	Lunch, <i>Mount Laurel</i> and Vendor Theater presentations, <i>Auditorium</i>			
2:00–3:30 PM	Web Applications <i>Auditorium</i>	GIS for Planning <i>Mount Holly</i>	Community GIS <i>Willingboro</i>	
3:30–4:00 PM	Dessert Break, <i>Exhibit Hall</i>			
4:00–5:00 PM	GIS Jeopardy <i>Auditorium</i>	Panel Discussion: Women in GIS <i>Mount Holly</i>	County GIS Applications <i>Willingboro</i>	Interactive Expo <i>Evesham</i>
5:00–7:00 PM	Exhibit Hall Networking Event Poster Session			

Wednesday, April 9, 2008

7:00–10:00 AM	Breakfast and Registration			
7:00 AM–2:00 PM	Exhibit Hall Hours and Poster Display			
8:30–10:00 AM	Imaging <i>Auditorium</i>	Panel Discussion: Digital Subdivision Submissions <i>Mount Holly</i>	GIS Tools <i>Willingboro</i>	Interactive Expo <i>Evesham</i>
10:00–10:30 AM	Morning Break, <i>Exhibit Hall</i>			
10:30–12:00 NOON	Enterprise GIS <i>Auditorium</i>	Panel Discussion: Digital Tax Mapping <i>Mount Holly</i>	GIS in Transportation <i>Willingboro</i>	The Wild Side of GIS <i>Burlington</i>
12:00–2:00 PM	Lunch, <i>Mount Laurel</i> and Vendor Theater presentations, <i>Auditorium</i>			
2:00–3:00 PM	Unique GIS Applications <i>Auditorium</i>	Panel Discussion: From the Ground Up Affordable GIS for Nonprofits <i>Mount Holly</i>	Utilities Applications <i>Willingboro</i>	Interactive Expo <i>Evesham</i>
3:00–4:00 PM	Map Awards and Closing Plenary: John D. Landis, University of Pennsylvania, <i>Auditorium</i>			

Welcome to MAC URISA's 14th Regional Conference!

On behalf of the Mid-Atlantic Chapter of URISA and the Conference Planning Committee, it is our pleasure to welcome you to the 2008 MAC URISA Conference. This is our 14th regional conference. By now you have probably noticed some of the significant changes from our previous thirteen- changes we are excited to bring to you.

First is our theme – Geography • Industry • Society. As geospatial technology has evolved over the years, we are now at a point where people are interacting with GIS applications without even knowing it. The proliferation of web tools and the advent of vehicle navigation systems have brought geography to our society in ways we could have never imagined a few years ago. We hope that as you attend the variety of sessions and exhibits at our conference, you will see first hand examples of how our industry has benefited modern society.

Second is our format – we are now a multi-day conference. After the 2006 conference we had several meetings where we discussed the comments you gave us. The overwhelming message that we heard was 'too many breakout sessions -- too little time.' You encouraged us to spread the sessions out over the length of the conference, you requested more time for the interactive expo program and special time to meet our sponsors. We've incorporated all of those requests into this year's agenda. We hope you will be able to spend more time at our sessions, learn from the expertise of our speakers, and network with the region's leading vendors of GIS technology.

Third is our location – The Enterprise Center at BCC. We have had a wonderful experience with Rutgers University, especially their Busch Campus Center. But, as our conference grew in size we were rapidly outgrowing their facility. So we performed an exhaustive search and found The Enterprise Center, a brand new, one-stop conference facility that can accommodate a larger volume of attendees and exhibitors. We are pleased to have a large auditorium for our plenaries and Vendor Theater, dedicated rooms for our exhibitors and interactive expo presenters, and even a computer lab for our pre-conference workshops with wireless internet throughout the building. This facility is also more centrally located for our various constituents and we hope those of you from Delaware and Pennsylvania found this venue easier to reach.

Please remember this conference is yours. If you need any assistance, feel free to contact one of our committee members who will be glad to assist. And please take the time to fill out the comment sheets so we can plan our next conference to suit your needs. Thank you for attending and enjoy your time here.

Katy McSorley
MAC URISA President
Bergen County Health Services

Seth Hackman
Conference Chair
NJDEP

Tom Rafferty
Conference Co-Chair
NJSP - OEM

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Conference Summary

Monday, April 7, 2008

Workshops
MAC URISA Board Meeting

Tuesday, April 8, 2008

Welcome
Keynote Address – Dr. David Robinson
Educational Sessions
Exhibits
Buffet Luncheon
Vendor Theater
Exhibit Hall Networking Event
Poster Display

Wednesday, April 9, 2008

Educational Sessions
Exhibits
Plenary Session – Dr. John Landis
Poster Awards

Conference Sponsors

A Special Thank You to our Platinum, Gold, and Silver Sponsors of MAC URISA 2008:

PLATINUM



BAE SYSTEMS

GOLD



SILVER



CONFERENCE COMMITTEE

Conference Chair—Seth Hackman, New Jersey Department of Environmental Protection
Conference Co-Chair—Tom Rafferty, New Jersey State Police, Office of Emergency Management
Program Chair—Kathryn McSorley, Bergen County Department of Health Services
Workshop Chair—Sharon Mollick, Cumberland County Planning Department
Interactive Expo Coordinator—Merrilee Torres, Burlington County GIS
Exhibitor Coordinator—Dawn McCall, Princeton University
Registration Coordinator—Tom Tiner, Civil Solutions
Publicity Coordinator—Paul Caris, New Jersey Department of Environmental Protection
Volunteer Coordinator—Ken Sipos, City of Philadelphia
Poster Coordinator—Joan Leder, Fairleigh Dickinson University
Logistics Coordinator—Andy Rowan, New Jersey Office of Information Technology, Office of GIS

Additional Committee Members:

John Bocchino, New Jersey Department of Environmental Protection
Kiersten Gauntt, Cross County Connections
Alison Hayes, Geographic Magic
Miyuki Kawada, Passaic County Department of Health
Trish Long, Trenton City Department of Planning
Joseph McElwain, Bergen County Department of Health Services
Kate McGuire, New Jersey Office of Information Technology, Office of GIS
Andrew Pickford, BAE Systems
John Pavek, New Jersey Natural Gas
Stacey Stanley, Burlington County GIS
Gerry Taylor, New Jersey Department of Agriculture
Marc Zamkotowicz, Burlington County College

Registration Hours—

Monday, April 7 7:30 AM–10:00 AM
Tuesday, April 8 7:00 AM–10:00 AM
Wednesday, April 9 7:00 AM–10:00 AM

What is MAC URISA?

MAC URISA is a volunteer organization with a longstanding reputation for providing quality educational programs to the GIS community. The mission of the Mid-Atlantic Chapter of the Urban & Regional Information Systems Association (MAC URISA) is to:

- Provide a community to facilitate communication & education among the various GIS constituency groups within the Mid-Atlantic region;
- Promote the business of GIS by providing access to networking, new information and technology;
- Foster relationships with organizations with similar missions to further the profession of GIS.

For more information, visit www.macurisa.org

Conference Bytes

Poster and Map Hall

Posters are a great way to share your projects and experience with others along with a wonderful opportunity to get ideas for improving your own maps. Make sure to set aside some time to spend in the Poster and Map Hall. All attendees are invited to bring and register a map or poster for the contest. Prizes will be awarded for the best maps/posters at the conclusion of the conference.

Interactive Expo Showcase

The Interactive Expo (IE) is composed of two components:

- informal, interactive, scheduled demonstrations/presentations
- ongoing table displays that are available for attendees to peruse throughout the conference days

Interactive Expo (IE) presentations are informal and much less structured than a paper presentation. At scheduled times, each IE presenter will give a 15 minute demonstration, summary of their project, or give a brief introduction and then field questions. The focus of IE is on providing attendees an opportunity to interact with the presenters and their displays. This format is especially conducive to demonstrating a process, technique or website.

Internet Access

Wireless Internet access is available throughout the Enterprise Center. We ask that you respect the speakers by refraining from typing on laptops during sessions and by setting other wireless devices on silent mode.

Exhibit Hall

Our Exhibit Hall will afford you the opportunity to explore current services and products that can enhance your GIS. Come see what's new and collect information that will answer your questions so that you can make better purchasing decisions. For more exhibitor information, go to Page 26.

Exhibit Hall Hours

Tuesday, April 8	7:00 AM – 7:00 PM
Wednesday, April 9	7:00 AM – 2:00 PM

Vendor Theater

Exhibitors are important contributors to the success of MAC URISA's education and outreach initiatives. As a vendor-neutral organization, MAC URISA does not permit sales promotions during educational sessions. Therefore, we are offering our premier sponsors the chance to bring you the latest in their services or products in a lunch session. Please join them in the Auditorium for this special opportunity.

Thanks to the Conference Committee for their time and dedication to making MAC URISA 2008 a success!

GIS Certification Institute – www.gisci.org



On December 31, 2008, the Grandfathering Provision of the GIS Certification Institute's (GISCI) certification program expires. A typical applicant for Geographic Information Systems Professional (GISP®) certification must claim and document achievement in three distinct categories:

Educational Achievement (formal and informal courses and conferences related to geospatial and GIS technology). Professional Experience (professional positions involving GIS). Contributions to the Profession (professional and personal activities designed to elevate and promote the GIS profession to others).

Points are awarded for achievement in each of these three areas. Minimum points, as well as an overall point minimum, are necessary for certification.

Grandfathering provisions are typical of new certification programs. The GISCI Grandfathering Provision is for experienced practitioners. A practitioner's experience is allowed to compensate for deficiencies in the other two achievement categories. If a minimum number of years and experience points are met, then the individual may obtain certification.

Due to the lack of widespread GIS-related educational and professional activities in years past, the Grandfathering Provision makes those areas optional for seasoned practitioners. If an applicant claims at least 200 Professional Experience points, the education and contributions sections of the application are noncompulsory. 200 points is three times the amount of professional experience that a traditional applicant must claim.

GISCI is an independent, non-profit organization providing the GIS community with a complete and voluntary certification program. There are 1,987 GISPs® as of January 25, 2008. For more information regarding the GISCI certification program, please visit www.gisci.org or call (847) 824-7768.

Exhibit Hall Networking Event

Tuesday, April 8

5:00–7:00 PM

Relax and enjoy some light refreshments and the company of your colleagues as you visit the Exhibit Hall after a long day of learning. Catch up with old friends and network with exhibitors in this stress-free environment. Don't miss this opportunity to share your experiences and unwind with colleagues and the region's top GIS technology vendors!

MAC URISA Leadership

MAC URISA Board

PRESIDENT

Kathryn McSorley, GISP
Bergen County Department of
Health Services
Paramus, NJ

VICE PRESIDENT

Kenneth Sipos
Public Property RE Division
City of Philadelphia, PA

PAST-PRESIDENT

Jim VanOstenbridge
ESRI
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SECRETARY

Seth Hackman
New Jersey Department of
Environmental Protection
Trenton, NJ

TREASURER

Paul Caris
New Jersey Department of
Environmental Protection
Trenton, NJ

TRUSTEES

Dawn McCall, GISP
Princeton University
Princeton, NJ

Sharon Mollick, GISP
Cumberland County Planning
Dept.
Bridgeton, NJ

Tom Rafferty, GISP
New Jersey State Police
West Trenton, NJ

Andrew Rowan
New Jersey Office of
Information Technology
Trenton, NJ

Tom Tiner
Civil Solutions
Branchburg, NJ

Merrilee Torres
Burlington County Department
of Information Technology
Mount Holly, NJ

Board Elections

Following this conference, MAC URISA will hold its annual election of half of the Chapter's board members. The following MAC URISA members will be up for election at the close of this conference. Please be sure to look for an email detailing the election procedure and vote in our online voting system. Candidate biographies will be posted on our website for your review. We welcome and look forward to our new Board!

Officer Candidates

President – Paul Caris
Secretary – Tom Rafferty
Treasurer – Seth Hackman

Trustee Candidates–

Tom Tiner (incumbent)
Matt Duffy
Mark Gatti
Alison Hayes
John Pavek
Andy Pickford

At the conclusion of the election, the terms of service for these Board members will conclude:

- Kathryn McSorley, GISP, Bergen County Health Services (President since 2004)
- Andrew Rowan, NJOIT-OGIS (Trustee since 2004)

We thank them for their dedication and service to MAC URISA and anticipate many more years of continued involvement.

Keynote Speaker

Dr. David Robinson



Dr. David A. Robinson is chairman of the Department of Geography at Rutgers University, and also serves as New Jersey's State Climatologist. His bachelor's degree is from Pennsylvania's Dickinson College and his doctorate from Columbia University. Before arriving at Rutgers in 1989, Dave was an associate research scientist at Columbia's Lamont-Doherty Earth Observatory and a visiting scientist at the National Climatic Data Center.

Professor Robinson's research interests are in applied climate, especially related to New Jersey, and in climate dynamics and change, particularly focused on global snow cover. He is a member of the 2007 Nobel Peace Prize sharing Intergovernmental Panel on Climate Change, having co-authored the snow section of the cryosphere chapter within the Science Assessment volume. Dave is also a member of the lead climate advisory committee for the National Oceanic and Atmospheric Administration, sits on the American Meteorological Society's Applied Climatology Committee, and is a member of Liberty Science Center's Learning and Teaching Advisory Committee. Dave recently completed chairing his second National Research Council panel, has chaired the American Meteorological Society's Polar Meteorology and Oceanography Committee, and was recently president of the American Association of State Climatologists.

Closing Plenary Speaker

Dr. John Landis



John Landis is the Crossways Professor of City and Regional Planning for the University of Pennsylvania. Prior to arriving at Penn in 2007, Prof. Landis was on the planning faculties of the University of California, Berkeley, Georgia Tech, and the University of Rhode Island. His research interests span a variety of urban development topics; his recent research and publications focus on growth management, urban infill development, and the geography of urban employment centers.

There is one firm New Jersey governments call to implement strategic GIS programs

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- Architected and implemented numerous municipal, county, and regional information management systems.
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- Equipped firefighters and emergency responders with state of the art equipment that expedites mobile access to vital information.
- Contracted by the New Jersey State Police to create and maintain a system to support their comprehensive Homeland Security initiatives.
- Designed, implemented and maintained applications enhancing economic development at the municipal and county levels.
- Contracted to map over 2.5 million parcels throughout New Jersey.
- Providing widespread and affordable access to spatial data and functions through a custom web-based application - the "iDV"
- Two time winner of New Jersey GIS services and software State contract and recipient of the ESRI Mid Atlantic Business Partner of the Year Award.

Call 800-924-0482 to learn how we can help your community.

MAC URISA 2008 Pre-Conference Workshops

MONDAY, APRIL 7, 2008

7:00–10:00 AM	Breakfast and Registration
8:30 AM–5:00 PM	Full-Day Workshops
12:00 NOON–1:30 PM	Buffet Lunch (provided)

MAC URISA 2008 Pre-Conference Workshops

Monday, April 7, 2008

8:30 AM–5:00 PM

Our schedule of expertly instructed workshops will provide classroom learning opportunities for all skill levels. Attendance at one workshop is included with full conference registration. If you registered for a workshop, be sure to bring your registration confirmation to the course. If you haven't signed up for a workshop, and wish to attend one, please stop by the Conference Registration Desk.

Workshop attendance certificates (useful when applying for or renewing your GIS certification) will be distributed at the end of each workshop.

(WK-1) Introduction to GIS

Instructors: Seth Hackman and Paul Caris

Room: Pemberton A, First Floor

This workshop is designed for those who are brand new to Geographic Information Systems (GIS). The workshop starts with the basics, such as defining GIS and discussing the hardware/software issues that must be considered. The related technologies of Global Positioning Systems (GPS) and Remote Sensing are also dealt with briefly, so students have an idea of the breadth of the Geographic Information field as a whole. The fundamentals of geographic data are covered with an emphasis on understanding the peculiarities of geospatial data in general as well as some of the specific types and formats of existing data sources. Students also will be introduced to some basic analysis techniques and will be encouraged to consider some more advanced analytical methods. During the day-long workshop, the instructors will endeavor to introduce important issues and resources (data, internet sites, organizations, etc.) that geospatial professionals need to be aware of in order to advance in this exciting field.

Topics Covered:

What is GIS, and what are the common hardware and software components

GIS software companies and software packages

Geographic scale and coordinate reference systems

Data collection and editing

Data storage and metadata

GIS display and data sharing

GIS organizational issues

Intended Audience: No prior experience with GIS is assumed.

(WK-2) Introduction to GPS

Instructor: Mike Popoloski

Room: Burlington, Second Floor

GPS is a widely used technology for collecting locational data for a GIS. Unfortunately many misconceptions exist about the technology and substantial errors are introduced into datasets as a result. This introductory workshop focuses on basic concepts of the NAVSTAR GPS, GPS receivers, accuracy variables, differential GPS, GIS related applications & project planning. Participants get hands-on experience through a basic GPS data collection exercise and creation of several GIS layers. By the end of the workshop participants will have experienced the GPS workflow and been made aware of the pitfalls in GPS data collection. Everyone is encouraged to bring their own Trimble GIS-grade instrument if available.

Intended Audience: Anyone who is interested in learning about this technology should attend.

(WK-3) GIS Program Management – URISA Certified Workshop

Instructors: Peter Crowell and Andrew Rowan

Room: Mount Holly, Second Floor

This URISA certified workshop is designed to provide insights and guidelines for public agency GIS programs. It will examine the various organizational and management issues that program managers must address in order to develop and manage a successful GIS program and projects. The course material will cover all aspects of GIS project and on-going program management including such areas as:

- strategic and implementation planning
- budgeting and financial management
- business case development and cost-benefit evaluation
- team building and human resources
- product/service procurement and vendor/contract management
- key technical management concerns and
- important legal and policy issues for GIS project and program management

The workshop will focus on practical issues and challenges faced by GIS managers. It includes examples from actual GIS implementations and students will receive access to a variety of supplemental digital references and templates useful for GIS planning and management. The workshop will include a number of short demonstrations and group exercises focusing on GIS management challenges. The workshop is structured to encourage interaction and provide opportunities for attendees to share their ideas and experiences.

Intended Audience: This workshop is most appropriate for the following types of people: a) current GIS management personnel seeking to polish their skills and examine approaches to management challenges, b) GIS or IT users and technical staff who are moving into management roles, c) IT management personnel who are becoming more involved with GIS program management or oversight.

(WK-4) 3D Geospatial Best Practices – URISA Certified Workshop

Instructor: Tim Case

Room: Willingboro, Second Floor

The convergence of new technologies and business requirements is fostering a new wave of 3D geospatial applications that allow users to access virtual built environments. Urban governments are using complex 3D data and visualization tools to support emergency preparedness, urban planning, and many other business practices. This course introduces the data, systems, and processes to be considered when implementing 3D applications. Using structured project management methodology and extensive case studies, attendees will learn how to navigate the dizzying array of options and prepare for a sustainable 3D geospatial practice. Specific topics include:

- Guidelines for project implementations using 3D technologies
- Introduction to 3D visualization, analysis, and simulation technologies
- Aerial and terrestrial 3D data creation methods, as well as update techniques
- Case studies of urban applications
- An introduction to 3D data models, including emerging standards and best practices

Intended Audience: Project managers creating or maintaining 3D data, geospatial data analysts considering integration of 3D technology, and local and regional government leaders implementing 3D geospatial programs.

(WK-5) Quality Management and Intro to Issue Tracking – URISA Certified Workshop

Instructor: David Lanter

Room: Pemberton B, First Floor

Geospatial applications and data “issues” are defects, errors, bugs, omissions, or usability problems that negatively impact a deliverable’s quality. Unresolved issues are important to find, prioritize, and resolve prior to reducing user satisfaction and blocking project completion. Issue tracking helps improve the quality of geospatial decision support products, applications, and databases. It does so with ways to document defects; measure quality, determine product and project status; and manage, prioritize, schedule, and communicate quality improvement tasks. This workshop will cover problem resolution with a web-enabled issue tracking database system, and techniques that can aid in improving the performance of geospatial product support and development teams, and increase the effectiveness of their quality management processes.

Specific topics covered in the workshop are:

- Geospatial Qualities
- Defect Detection Techniques
- Test Driven Development
- Issue Tracking Standard Operating Procedures
- Examples of Issue Tracking Systems
- Integrating Quality Reporting
- Quality Management Process Maturity

Intended Audience: Project managers, project directors, quality managers, and applications and data development professionals interested in coordinating project quality management efforts while attending to schedules and budgets.



CyberTech Systems and Software

CyberTech is a global IT services company specializing in Enterprise GIS Application Development and Integration, SAP Implementation and Post-Implementation Support, and Custom Business Application Development, using a cost-effective global delivery model. CyberTech is the leader in the integration of ESRI technology with enterprise IT systems such as SAP. www.CyberTech.com



**For more
information, visit
www.macurisa.org**



BAE SYSTEMS is putting the MAC URISA Region on the map with the solutions to solve your geospatial needs.

BAE SYSTEMS is a solution-driven company, dedicated to adapting the evolving world of geospatial technologies to your specific needs. We have provided counties, municipalities, regional consortiums, NJOIT, NJDOT, NJ Turnpike Commission, PAMAP, PennDOT, DVRPC and other clients with geospatial services ranging from planimetric & topographic mapping, digital orthophotography, LiDAR processing and Geospatial Systems Engineering & GIS design to E-911 & infrastructure mapping.

We can help you put the pieces in place to solve your geospatial needs.

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- Analytical triangulation
- Digital elevation/terrain models
- Planimetric and topographic mapping
- Digital orthophotography
- GIS database design and implementation

Mapping Program Management Services

Many different agencies, states, counties, municipalities, and local governments have relied on BAE SYSTEMS to provide professional program management services. Our expertise in this industry gives a unique vision for your mapping project. We are in the business of providing the critical geospatial solutions you are looking for.

GIS Services

Your Geographic Information System is a critical component of your information management strategy. BAE SYSTEMS has experience with designing, building and implementing GIS data models that are tailored to meet your specific business processes and application requirements. Our capabilities include GIS systems integration, data interoperability capabilities and both server and web-based applications.

With the challenging conditions surrounding our world, customers are demanding solutions that provide reliable access to accurate geospatial data. BAE SYSTEMS supports these requirements with comprehensive, end-to-end solutions.

For more information contact:

Andrew Pickford
Regional Manager
856-793-4316 – office
215-499-0983 – cell
andrew.pickford@baesystems.com

MAC URISA 14th Regional GIS Conference Program

TUESDAY, APRIL 8, 2008

7:00–10:00 AM	Conference Registration Desk Hours
7:00–10:00 AM	Breakfast
7:00 AM–7:00 PM	Exhibit Hall Hours
8:30–10:00 AM	Welcome and Keynote Address – Dr. David Robinson
10:00–10:30 AM	Morning Break in Exhibit Hall
10:30 AM–12:00 NOON	Educational Sessions and Interactive Expo
12:00 NOON–2:00 PM	Buffet Lunch and Vendor Theater
2:00–3:30 PM	Educational Sessions
3:30–4:00 PM	Dessert Break in Exhibit Hall
4:00–5:00 PM	Educational Sessions and Interactive Expo
5:00–7:00 PM	Exhibit Hall Networking Event

Breakfast and Registration

7:00–10:00 AM

Exhibit Hall Hours

7:00 AM–7:00 PM

Welcome and Keynote Address

8:30–10:00 AM

Room: Auditorium, First Floor

Gather at 8:30 for the Opening Ceremony. MAC URISA President, Katy McSorley will welcome attendees to the Enterprise Center and Conference Chair, Seth Hackman, will note some of the highlights of this year's conference.

Keynote Address

Dr. David Robinson, NJ State Climatologist, and Geography Department Chair, Rutgers University

Dr. Robinson will discuss the contemporary and future states of the Mid-Atlantic climate; including how global warming will affect sea levels, temperatures and, eventually, our society in the coming years. As the State Climatologist of New Jersey, Dr. Robinson uses many different tools to determine climate trends in our region. He will discuss some of these applications and how they relate to modern GIS technology.

We've all heard the many opinions as to the status of global warming. As a member of the 2007 Nobel Peace Prize-sharing UN Intergovernmental Panel on Climate Change, Dr. Robinson can offer details into the status of global climate change and the opinions of the international body. The address will detail the assessment and understanding of climate change particularly as they relate to human influences.

Morning Break in Exhibit Hall, Pemberton Room, First Floor

10:00–10:30 AM

Educational Sessions

10:30 AM–12:00 NOON

Emergency Management

Room: Auditorium, First Floor

This session showcases state, county, and regional approaches to utilizing GIS technology for Emergency Management. Explore how GIS is being leveraged for disaster preparation, assessment, mitigation and response.

Moderator: Miyuki Kawada, Passaic County Department of Health, Paterson, NJ

- New Jersey Hurricane Evacuation Study: How GIS can Keep You from Treading Water
Tom Rafferty, New Jersey State Police Emergency Management Section, West Trenton, NJ
- Storm Surge and Flood Vulnerability in Cumberland County NJ
Kimberly Brown and James Manski, Cumberland County Office of Emergency Management, Bridgeton, NJ
- Benefits of a GIS in Emergency Management, Planning and Response: An Update of NJMC's ERIS Program
Dom Elefante and Eric Yadlofski, New Jersey Meadowlands Commission, Lyndhurst, NJ

Data Collection

Room: Mount Holly, Second Floor

Data, data everywhere....This session will focus on strategies for building your data stockpile. Find out how to manage and convert large datasets, and how partnering opportunities can help you achieve your data goals.

Moderator: John Bocchino, New Jersey Department of Environmental Protection, Trenton, NJ

- Managing Large Watershed and Storm Water Data Sets
Michael J. Hill, Freehold Soil Conservation District, Freehold, NJ
- Local Resolution Hydrography in a National Framework: NJDEP's Project to Bring the National Hydrography Dataset to 1:2400 for New Jersey
Seth Hackman, New Jersey Department of Environmental Protection, Trenton, NJ
- 2010 US Census Bureau Geographic Partnership Programs for State, County, and Municipal Governments
William "Web" Adams, US Census Bureau, New York, NY

Urban Redevelopment

Room: *Willingboro, Second Floor*

Vacant properties are not just an eyesore, they can be hazardous to your health. GIS has become a vital tool in the management and rehabilitation of vacant lots and designated brownfields. See how your community could use GIS to reclaim your neighborhoods and control sprawl.

Moderator: *Paul Caris, NJDEP, Trenton, NJ*

- Abandoned Property Management Using GIS in Trenton, NJ
Trish Long, City of Trenton, NJ
- Using GIS for Brownfields Inventory and Assessments in the City of Garfield, NJ
Mehmet Secilmis, Dewberry, Parsippany, NJ
- Enabling Participants in Planning, Budgeting, and Management of Redevelopment Projects
Brian J. Racin, South River Environmental and Shade Tree Commission, South River, NJ

Interactive Expo

Room: *Evesham, Second Floor*

Moderator: *Merrilee Torres, Burlington County Department of Information Technology, Mt. Holly, NJ*

- Flood Hazard Mitigation and Flood Control
Melanie Ruff, Matt Duffy, Atlantic County Office of GIS, Northfield, NJ
- GIS for Fire Departments
Eric Anderson, Monmouth County GIS, Freehold, NJ
- Mapping & GIS at the Delaware Valley Regional Planning Commission
Christopher Pollard, Delaware Valley Regional Planning Commission, Philadelphia, PA
- Using ESRI's ModelBuilder to Develop a GIS-based Methodology for Estimating Annual Surface Water Pollutant Loads from Nonpoint Source Pollution
David Kunz, GISP, Sussex County Office of GIS Management, Newton, NJ

Buffet Luncheon

12:00 NOON–2:00 PM

Room: *Mount Laurel, First Floor*

All registrants are invited to partake of a buffet luncheon on the first floor of the Enterprise Center. This is a great opportunity to network with your peers as well as visit the exhibit hall. Also during the lunch break, four of our premier sponsors will be offering programs in the Vendor Theater.

Educational Sessions

2:00–3:30 PM

Vendor Theater Showtimes, Auditorium

12:00 NOON–12:30 PM

Western Technologies

Western Technologies is a leading provider of property information based services. Quality service is our #1 priority. Come learn about our products including:

- NJ Parcel Map Online - a leading source for real property data
- Pinpoint Flood and Tidelands Search product
- Pinpoint Geocoding
- WTG GIS mapping interface
- Geodetic Elevation/Control Web Service
- Custom web services can be developed using your data and our seamless tax map layer.

Presenter: *Jerry Jones*

12:30 PM–1:00 PM

ESRI

ArcGIS 9.3: The Road Ahead

ArcGIS 9.3 is a significant release from ESRI that extend the capabilities of the ArcGIS platform. Users will see significant enhancements across ArcGIS Desktop, ArcGIS Server, ArcGIS Mobile and Geodatabase Management. This presentation will provide an early look in to these enhancements and preview what's to come for GIS User Community.

Presenter: *Seth Van Aken*

1:00 PM–1:30 PM

BAE Systems

An Overview of Geospatial Systems Engineering -This will be a general overview of the GIS services that the Geospatial Systems Engineering Group within BAE SYSTEMS can provide, as well as additional applications for various projects.

Presenter: *Andy Pickford*

1:30 PM–2:00 PM

Civil Solutions

Geo-collaboration: Data exchange and general business communication has been changing dramatically over the past few years. With the wide acceptance of email and text messaging, most people expect almost immediate response to their request. In order to facilitate communication and data-exchange for project related tasks, Civil Solutions is in the process of building a variety of geo-collaboration tools to support our clientele. Since communication is the key to ensuring the successful completion of a project, the presentation will focus on the means to use old and new web-based technologies to describe work requirements, check the status of your project on a daily basis, upload/download supportive documents and maps, as well as geospatial visualization utilizing Google Earth. When implemented correctly, these tools provide additional means for communication and data transfer to help support the problem-resolution process and thus keep projects on schedule.

Presenter: *Tom Tiner*

Web Applications

Room: Auditorium, First Floor

You won't want to miss this exciting session demonstrating the powerful tools available to showcase GIS data on the web. Discussions will highlight interactive mapping and reporting applications that deliver geographic data to the public.

Moderator: Andrew Rowan, NJ Office of GIS, Trenton, NJ

- Who Benefits from Placing Subdivision Development Application Information on the Web
Michael Shean, The Maryland-National Capital Park & Planning Commission, Upper Marlboro, MD
- Seeking Spatial Intelligence: NJDEP's NJ-GeoWeb
Lawrence L. Thornton and Lou Jacoby, New Jersey Department of Environmental Protection, Trenton, NJ
- Internet-Based GIS – Changing Roles in Government
Joseph Ptaszynski & Janice Peal, Morris County Dept. of Planning, Development & Technology, Morristown, NJ

GIS for Planning

Room: Mount Holly, Second Floor

This session will provide a wide view of the many uses of GIS by planners. How can GIS play an important role in decision-making? See how one city accesses traditional socio-economic indicators using GIS.

Moderator: Gerry Taylor, New Jersey Department of Agriculture, Trenton, NJ

- Changing Indecision Into Action
Mehmet Secilmis and Christina Gray, Dewberry, Parsippany, NJ
- Utilizing GIS for Zoning and Land Use
Sean Zhang, Bergen County Dept. of Planning and Economic Development, Hackensack, NJ
- Metropolitan Philadelphia Indicators Project: A Web-based Regional Indicators Application
David Elesh, Temple University Dept. of Sociology, Philadelphia, PA
Megan Heckert, Avencia Inc. Philadelphia, PA

Community GIS

Room: Willingboro, Second Floor

Community involvement using GIS is a growing trend. Come see how Public Participation GIS encourages citizens to interact with geographic data and engage in community activities using the Internet and Neighborhood Information Systems.

Moderator: Ken Sipos, City of Philadelphia, PA

- New Jersey Highlands Council Interactive Mapping
Roger Keren, New Jersey Highlands Council, Chester, NJ
- GIS Project Management in a Community Giving Campaign: A Journey for 9/11
Joan Leder, Fairleigh Dickinson University, Teaneck, NJ
- Cartographic Modeling Lab (CML) Project Highlights
Marlen Kokaz, University of Pennsylvania, Philadelphia, PA

Dessert Break Exhibit Hall, Pemberton Room, First Floor

3:30–4:00 PM

Educational Sessions

4:00–5:00 PM

GIS Jeopardy

Room: Auditorium, First Floor

Have a little fun and test your GIS knowledge in this hour-long session that will match you up against your peers. Prizes will be awarded.

Moderator: John Pavek, New Jersey Natural Gas, Wall, NJ

Panel Discussion: Women in GIS

Room: Mount Holly, Second Floor

Join in this panel discussion focusing on the professional experiences of women in GIS. We will raise some current issues and discuss the future roles of women in the field.

Moderator: Noemi Mendez, US Census Bureau, Philadelphia, PA

- Dawn McCall, GISP, Princeton University, Princeton, NJ*
- Kathryn McSorley, GISP, Bergen County Health Services, Paramus, NJ*
- Karen Mitchell, GISP, Civil Solutions, Branchburg, NJ*
- Kimberly Korejko, Delaware Valley Regional Planning Commission, Philadelphia, PA*

County GIS Applications

Room: Willingboro, Second Floor

This session will explore the development of applications that address county-wide needs. See examples of how two agencies are using GIS to assess and protect the environment.

Moderator: Sharon Mollick, Cumberland County Department of Planning, Bridgeton, NJ

- Building a Comprehensive GIS-based Environmental Health Solution
Kathryn McSorley, GISP, Joe McElwain and Matt Schneiderman, Bergen County Health Services, Paramus, NJ
- Using ESRI's ModelBuilder to Develop a GIS-based Methodology for Estimating Annual Surface Water Pollutant Loads from Nonpoint Source Pollution
David Kunz, GISP, Sussex County Office of GIS Management, Newton, NJ

Interactive Expo

Room: Evesham, Second Floor

Moderator: Kiersten Gauntt, Cross County Connections, Evesham, NJ

- ModelBuilder 101: the Basics of Creating a Model with ModelBuilder in ArcGIS
Merrilee Torres, Burlington County Department of Information Technology, Mt. Holly, NJ
- Alternatives to ArcGIS
Janel Bisacquino, Stony Brook-Millstone Watershed Association, Pennington, NJ
- Mount Laurel Townships Municipal Utilities Authority Implantation of ArcPad, 2007 Hydrant Flushing Program
Bill Zimmerman, Mount Laurel MUA, Mount Laurel, NJ

Exhibit Hall Networking Event

5:00–7:00 PM

This event will provide you with an opportunity to meet and discuss the topics of the day with other GIS professionals while viewing exhibits. Enjoy light refreshments while you network with old and new colleagues.

WEDNESDAY, APRIL 9, 2008

7:00–10:00 AM	Conference Registration Desk Hours
7:00–10:00 AM	Breakfast
7:00 AM–2:00 PM	Exhibit Hall Hours
8:30–10:00 AM	Educational Sessions and Interactive Expo
10:00–10:30 AM	Morning Break in Exhibit Hall
10:30 AM–12:00 NOON	Educational Sessions
12:00 NOON–2:00 PM	Buffet Lunch and Vendor Theater
2:00–3:00 PM	Educational Sessions and Interactive Expo
3:00–4:00 PM	Closing Plenary: Dr. John Landis, University of Pennsylvania

Educational Sessions

8:30 AM–10:00 AM

Imaging

Room: Auditorium, First Floor

See the world from a new perspective. Let our experts guide you through the exciting world of remote sensing and LiDAR with their creative use of technology.

Moderator: Andrew Pickford, BAE Systems, Mt. Laurel, NJ

- Airborne Laser Scanning System (LiDAR) A General Overview
Dr. Ing. Ricardo M. Passini, BAE Systems GP&S, Mt. Laurel, NJ
- Balloon Imagery for Assessing Wetlands Sites and Invasive Species Distribution
Ildiko Pechmann and Francisco Artigas, PhD, New Jersey Meadowlands Commission- Meadowlands Environmental Research Institute, Lyndhurst, NJ
- LiDAR: Practical techniques for quality assurance and analysis
Michael Umansky, Applied Imagery, Silver Spring, MD

Panel Discussion: Digital Subdivision Submissions

Room: Mount Holly, Second Floor

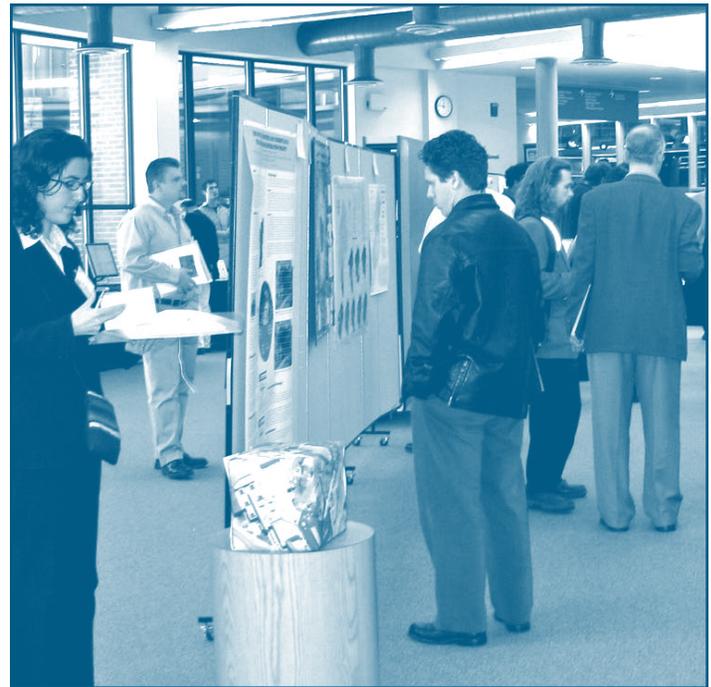
Maintaining a county-wide parcel layer is a time-intensive task especially in this time of urban sprawl and rapid development. One way to expedite the process is through the procurement of digital data sources as opposed to traditional hard copy maps. This panel will discuss the process of instituting digital subdivision submission standards within several counties of New Jersey. The two County panelists will share their experiences and challenges in their efforts to achieve this goal while the private sector panelist will offer the perspective of a developer who would need to meet the digital subdivision standard.

Moderator: Merrilee Torres, Burlington County Department of Information Technology, Mt. Holly, NJ

Patricia Leidner, Hunterdon County GIS, Flemington, NJ

David Kunz, GISP, Sussex County Office of GIS Management, Newton, NJ

Bill Leonard, Canuso Communities, Haddonfield, NJ



GIS Tools

Room: Willingboro, Second Floor

Explore innovative ways to view your GIS data in this helpful session. From interactive maps to portable document files – this session will encourage you to think outside the box.

Moderator: Paul Caris, New Jersey Department of Environmental Protection, Trenton, NJ

- Enhancing Parcel Exploration with Historical Images and Information
Joan Decker, Philadelphia Department of Records, Philadelphia, PA
Megan Heckert, Avencia Inc., Philadelphia, PA
- Utilizing Adobe Portable Document Files (PDF) to Bring Maps to Your Audience
David Kraiker, US Census Bureau, New York, NY
- Mapping Philadelphia History: Public Access to Historic Images
Joan Decker, Philadelphia Department of Records, Philadelphia, PA
Megan Heckert, Avencia Inc., Philadelphia, PA

Interactive Expo

Room: Evesham, Second Floor

Moderator: Stacey Stanley, Burlington County Dept of Information Technology, Mt. Holly, NJ

- OpenLayers Open Source Mapping Demo
DeJung Gewissler, NJ Office of GIS, Trenton, NJ
- NJDEP's NJ-GeoWeb and Other Geospatial Projects
Lou Jacoby and Dnyanada Bhide, New Jersey Department of Environmental Protection, Trenton, NJ
- Land Use Analysis Decision Support System (LANDS)
Carl Figueiredo and Nathan McLean, NJ Highlands Council, Chester, NJ
- Internet-Based GIS - Changing Roles in Government
Joseph Ptaszynski & Janice Peal, Morris County Dept. of Planning, Development & Technology, Morristown, NJ

Morning Break in Exhibit Hall, Pemberton Room, First Floor

10:00–10:30 AM

Educational Sessions

10:30 AM–12:00 NOON

Enterprise GIS

Room: Auditorium, First Floor

This session will encourage you to broaden your GIS horizons by taking on large scale projects to accommodate multiple agencies. Our experts will demonstrate how to leverage your resources through smart systems using a variety of techniques and web services.

Moderator: Kate McGuire, NJ Office of GIS, Trenton, NJ

- City of Philadelphia – Unified Land Records System: Towards a Long-term User-centered Development Strategy
Thomas Neiryck and Julia Jia, Mayor's Office of Information Services, City of Philadelphia, PA
- The Re-engineering of County and Local Government Through Enterprise Information Management Systems
Dan A. Freed and David Kunz, GISP, County of Sussex, Newton, NJ
- Geographic Web Services – Open Solutions for Local Government
Jim Hall, Bowne Management Systems, Mineola, NY

Panel Discussion: Digital Tax Mapping

Room: Mount Holly, Second Floor

The NJ Department of Treasury, Division of Taxation has formed an advisory committee to help the division move toward accepting digital submissions of tax maps. Members of the committee will be present to discuss the group's progress. Issues that are being addressed are format standards, content standards, and automated processing of the submissions to transform and load data into a statewide GIS cadastral layer.

*Moderator: Andrew Rowan, NJ Office of GIS, Trenton, NJ
Richard Rehmann, Civil Solutions, Hammonton, NJ
Patrick McDonald, Montgomery Township, NJ
Robert Marmion, Montgomery Township, NJ*

GIS in Transportation

Room: Willingboro, Second Floor

Choosing transit routes, performing highway safety analysis and prioritizing transportation projects are three classic applications of GIS highlighted in this session. Learn how these tri-state studies (NY, NJ and DE) were conducted and their outcomes.

Moderator: Trish Long, City of Trenton, NJ

- Utilizing GIS to Understand the Potential Ridership and Social Equity of Bus Rapid Transit Route Selection: Examples from New York City
Jonathan Peters, PhD and Michael Kress, PhD, The College of Staten Island, NY
- Using GIS for Safety Assessment Analysis
Jason Hahn, Michael Baker Jr. Inc., Princeton, NJ
- Using GIS to Prioritize Transportation Projects
William Swiatek, Wilmington Area Planning Council, Newark, DE

The Wild Side of GIS

Room: Burlington, Second Floor

New Jersey's Endangered and Nongame Species Program (ENSP) utilizes GIS to implement many of its species preservation strategies. In an effort that links GIS technology with wildlife biology and landscape ecology, the ENSP has worked on mapping projects to aid in the protection of threatened and endangered species. Major projects include the Landscape Maps, the bobcat habitat modeling and survey effort and the American kestrel nest box program.

Moderator: Joan Leder, Fairleigh Dickinson University, Teaneck, NJ

- Bobcat Modeling and Survey Efforts
Gretchen Fowles, New Jersey Department of Environmental Protection, Trenton, NJ
- The NJ Landscape Project
Patrick Woerner, New Jersey Department of Environmental Protection, Trenton, NJ
- The American Kestrel Nest Box Program
Peter Winkler, New Jersey Department of Environmental Protection, Trenton, NJ

Buffet Luncheon

12:00 NOON–2:00 PM

Room: Mount Laurel, First Floor

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Presenter: Jerry Jones

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Presenter: Tom Tiner

MAC URISA 14th Regional GIS Conference Program (continued)

Educational Sessions

2:00–3:00 PM

Unique GIS Applications

Room: Auditorium, First Floor

Interested in unusual applications of GIS? This session will interest a broad range of attendees as our speakers share their unique projects.

Moderator: Ken Sipos, City of Philadelphia, PA

- Property Conveyance Fraud Tracking and Mapping
Joan Decker, Philadelphia Department of Records, Philadelphia, PA
- Mapping the Dead: A Unique Approach to GIS
Megan Heckert, Avencia Inc., Philadelphia, PA
- Mapping the Dead: A Unique Approach to GIS
Sharon Mollick, GISP, Cumberland County Department of Planning & Development, Bridgeton, NJ

Panel Discussion: From the Ground Up – Affordable GIS for Nonprofits

Room: Mount Holly, Second Floor

This will be a discussion on the pitfalls and successes involved in working with GIS in the nonprofit sector. Data availability and usage, procurement of software, horror stories and strokes of luck or genius or both will be discussed. Hear from those who have been through it what has and hasn't worked in attempting to work with GIS on a low budget with minimal time allowed.

Moderator: Alison Hayes, Geographic Magic, Red Bank, NJ

- Derek Ziegler, Camconnects, Camden, NJ*
- Fred Akers, Great Egg Harbor Watershed Association, Great Egg Harbor, NJ*

Utilities Applications

Room: Willingboro, Second Floor

The applications of GIS for utilities abound. Come see how efficiency can be increased by using GIS for mark-outs and learn a strategy to share services.

Moderator: John Pavek, New Jersey Natural Gas, Wall, NJ

- Dig-Smart: GIS for Intelligent Underground Utility
Robert Berardo, RSB Spatial Associates, Matawan, NJ
Jim Schoenberg, Dig-Smart LLC, Rio Rancho, NM
- Mapping Sewer and Stormwater Pipelines: A Case Study on a Regional Approach to Equipment Sharing
Alex Marti and Jonathan Martin, New Jersey Meadowlands Commission – Meadowlands Environmental Research Institute, Lyndhurst, NJ

Interactive Expo

Room: Evesham, Second Floor

Moderator: Merrilee Torres, Burlington County Department of Information Technology, Mt. Holly, NJ

- Utilizing Google Earth for Emergency Management
Eric Yadloviski and Dom Elefante, New Jersey Meadowlands Commission, Lyndhurst, NJ
- Assisting in LUCA (Local Update of Census Addresses); Using GIS to Identify New Construction
Stacey Stanley, Burlington County Department of Information Technology, Mount Holly, NJ
- Brick Township MUA - Evolution of an Enterprise GIS
Richard E. Garnett and Christopher McClain, Brick Twp. MUA, Brick, NJ

Closing Plenary Session and Poster Contest Awards

3:00–4:00 PM

Room: Auditorium, First Floor

Complete your conference experience by attending the Closing Plenary and Poster Contest Awards.

Dr. John Landis will discuss how to use GIS to determine urban infill areas for development. While he was in California, he worked on a project that queried over four million records. This presentation will focus on how potential infill parcels were located and how the initial set was then analyzed to determine the development potential along with any constraints that could limit the value and usefulness of the site.

GIS—Better Decisions through Modeling and Mapping Our World

Geographic information system (GIS) technology is an important and proven decision-making tool for governments to respond to challenges efficiently, enhance business functions, improve service delivery, and plan successfully for the future. By using ESRI's scalable family of ArcGIS® software, governments can unite information from many departments to create a common, map-based data display, analysis, and dissemination platform, enabling staff to visualize data in new ways. This geographic data can be used across all departments, in the field, and on the Internet, resulting in more comprehensive policies and a better informed and engaged community.



ESRI Philosophy

ESRI believes that better information makes for better decisions. Our reputation is built on contributing our technical knowledge, our special people, and our valuable experience to the collection, analysis, and communication of geographic information. Contact us today to learn how ESRI's GIS is helping to manage and improve government operations around the world.



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Interactive Expo Directory:

Atlantic County Office of GIS

Department of Regional Planning & Development
P.O. Box 719
Rt. 9 & Dolphin Avenue
Northfield, NJ 08225-0719
609-645-5898

Melanie Ruff - ruff_melanie@aclink.org
GIS Specialist III
Matt Duffy - duffy_matt@aclink.org
GIS Specialist II

Flood Hazard Mitigation and Flood Control

Participation from 100% of the municipalities within Atlantic County made it possible to develop an inventory that highlights areas of concern along the transportation network. Possible corrective measures were then developed and factors such as: cost, population, elevation, traffic volume, emergency response and public safety were used to prioritize potential mitigation projects. Utilizing the pmf file format and the ArcReader software allowed the Office of GIS to more easily put the GIS products in the hands of each municipality.

Bergen County Department of Health Services

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201-634-2780
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GIS Specialist
Joe McElwain – jmcelwain@co.bergen.nj.us
Senior Environmental Health Specialist
Matt Schneiderman – mschneiderman@co.bergen.nj.us
Environmental Compliance Investigator

Building an Environmental Health Solution using GIS

The Bergen County Health Department Environmental Division has endeavored to build a comprehensive GIS-Based Environmental Health Solution for its Sanitarians and Environmental Health investigators. The process of transitioning from a traditional paper-based reporting system to a state-of-the-art GIS-enabled flexible computing system has led to changes in business processes for several of the department's programs. The application integrates mobile and back-office technologies for a staff of over 40 field and office personnel.

Brick Township MUA

1551 Route 88
Brick, NJ 08724
732-458-7000
Richard Garnett - rgarnett@brickmua.com
GIS Program Manager
Christopher McClain - cmcclain@brickmua.com
GIS Specialist

Brick Township MUA - Evolution of an Enterprise GIS

The Brick Township Municipal Utilities Authority implemented GIS development in the early 1990s. The original effort was a multi-agency, cost-shared effort, lead by the Authority and The Township of Brick. For many of the early years this development focused on data development. The Authority has used multiple different data capture methods to help build its GIS catalog of data. Once this data started to take shape, it was used (primarily) by GIS staff for the analysis needs of the Authority. As new people were introduced to the data available in the GIS, new non-GIS users were provided access through reports and web based maps. The focus today is on integrating the GIS into the day to day business processes of the Authority.

Current projects at The Authority concentrate on growing the GIS into a true, Township-wide, Enterprise Class, GIS. One of the primary 2008 goals is to select and deploy a GIS based Enterprise Asset Management System that will function as an informational hub for multiple departments. As for utilities, the Authority is using the vast amounts of GIS data to populate and assist in the building of a Water Distribution model. The Authority is also currently researching options for creating a mobile GIS to be deployed with its field employees, providing access to the tools necessary for improving their day-to-day efficiency and effectiveness. In cooperation with the Township of Brick, The Authority is about to award an implementation contract that will utilize ArcGIS server to provide live and direct GIS services and mapping applications to the remotely located Township of Brick administration complex, using an existing T1 connection. The Authority and Township are also presently involved with producing a new set of parcel-based Tax Maps generated entirely from native GIS data for State of New Jersey Division of Taxation approval and certification.

Burlington County

Department of Information Technology
PO Box 6000
49 Rancocas Rd, Room 111
Mount Holly, NJ 08060
609-702-7067
Merrilee Torres - mtorres@co.burlington.nj.us
GIS Specialist I

ModelBuilder 101: the Basics of Creating a Model with ModelBuilder in ArcGIS

ModelBuilder in ArcGIS can be used to automate geoprocessing steps that need to be done repeatedly by building and saving a model. This presentation explains the basics of working with ModelBuilder and steps through building a model with user input.

Burlington County

Department of Information Technology
PO Box 6000
49 Rancocas Rd, Room 111
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609-265-5968
Stacey Stanley - sstanley@co.burlington.nj.us
GIS Specialist Trainee

Assisting in LUCA (Local Update of Census Addresses); Using GIS to Identify New Construction

In order to prepare for a Decennial Census, the US Census Bureau asks local governments to assist in updating the Census Bureau's Address List. Burlington County signed on to assist in the 2010 LUCA Program as an Option 2 Participant. Under this option the County can supply addresses for new construction since the last census in 2000 and update the Census' roads. This presentation will talk about the steps and data sources that Burlington County used to locate the new construction. (No actual addresses will be displayed or discussed).

Delaware Valley Regional Planning Commission

190 N. Independence Mall West
8th Floor
Philadelphia, PA 19106-1520
215-238-2815
Christopher Pollard - cpollard@dvrpc.org
GIS Specialist

Mapping & GIS at the Delaware Valley Regional Planning Commission

Serving the Greater Philadelphia region for more than 40 years, the Delaware Valley Regional Planning Commission (DVRPC) works to foster regional cooperation in a nine-county, two state area. City, county and state representatives work together to address key issues, including transportation, land use, environmental protection and economic development.

DVRPC provides services to member governments and others through planning analysis, data collection, and mapping services. Aerial photographs, maps and a variety of publications are available to the public and private sector.

Brief overviews of various projects that utilize mapping/GIS technology will be given. DVRPC's aerial imagery, land use, and environmental resource inventory programs will be highlighted, as well as their web-mapping applications and efforts to foster data sharing among member governments.

Monmouth County GIS

3000 Kozloski Road
Freehold, NJ 07728
732-683-2194
Eric Anderson - eanderso@co.monmouth.nj.us
GIS Coordinator

GIS for Fire Departments

Through the Monmouth County GIS Municipal shared services program, GIS software is implemented in a wide variety of departments at the local level. In the past year, many of our Fire Departments have started using GIS for response and preplanning. This Interactive Expo presentation is geared to beginners looking for guidance on getting started with GIS. Another aspect of the demo is emphasizing the benefits of GIS tools to decision-makers and the public.

Hydrants, Addresses, Roads and Aerial Photography are naturally some of the base datasets for First Responders. With accurate hydrants and addresses, precious seconds are saved through accurate routing, choosing the nearest hydrant and placing the truck in the optimal location. Response preplanning for critical facilities such as schools, business, stores, apartments creates a plan for the most difficult buildings allowing drills before an incident occurs. Tools in this demo include Pictometry's Electronic Field Study and ESRI's ArcGIS though the basics ideas relate to any GIS software.

Morris County, New Jersey

Department of Planning, Development & Technology
30 Schuyler Pl., 4th Floor
P.O. Box 900
Morristown, NJ 07963-0900
973-829-8120
Joseph Ptaszynski - mcgis@co.morris.nj.us
Web Application Developer
Janice Peal - jpeal@co.morris.nj.us
GIS Specialist

Internet-Based GIS - Changing Roles in Government

Internet-based GIS applications are cost-effective tools placing real GIS in the hands of large user bases. Rich Internet Applications (RIAs) function similar to desktop applications, without the expense and maintenance of desktop applications. Larger internet bandwidths and RIA capabilities are leading to a paradigm shift in GIS operations. Whereas most GIS departments traditionally consist of a few GIS technicians and analysts only capable of serving small client bases, some departments are evolving into technical coordinators who manage access to GIS across much wider "client" bases. GIS departments will continue to handle system design and overall GIS operations; however data maintenance and analysis is increasingly becoming an end user role. This change has numerous implications on the roles and responsibilities of GIS departments and on the quality and availability of GIS data.

Growing demand for GIS has led the Morris County GIS Department to develop an RIA called MCPRIMA (Morris County Public Resource Mapping Application). MCPRIMA ties the County's spatial data to interactive mapping, reporting and multimedia tools. This session will highlight current MCPRIMA capabilities and future development/design strategies of MCPRIMA. It will also describe the effects that web based GIS have had on the Morris County GIS department.

Mount Laurel MUA

1201 S. Church St.
Mount Laurel, NJ 08054
856-722-5900
Bill Zimmerman - BZimmerman@mltmua.com

Mount Laurel Township's Municipal Utilities Authority Implementation of ArcPad, 2007 Hydrant Flushing Program

The Mount Laurel Township, Municipal Utilities Authority (MUA) is located in the Southern portion of Burlington County, New Jersey. The (MUA) currently supplies water service to approximately 18,000 customers and maintain over 183 miles of water mains, 1322 fire hydrants and 2593 water valves thought the township. In October 2006, the (MLTMUA) Water Department began implementing their yearly fire hydrant flushing program in an effort to incorporate their newly developed GIS Geo-database and linking information obtained during the hydrant flushing process. The project was then expanded in 2007 in include hydrant flow testing, and painting procedures, though this paper will focus on the hydrant flushing program. Fire hydrant maintenance is performed by the (MLTMUA) Water Department on an annual basis. It was decided that a geospatial based system would help to improve the accuracy of imputed data as well as cut down on the redundancy factors typically occurred during data entry. The solution proposed was to purchase a few laptop computers and ArcPad 7.1 from ESRI. The existing fire hydrant database, street rights-of-way, street centerlines, and miscellaneous layers were then loaded on to an Acer Aspire laptop which was mounted in one of the department's maintenance vehicle and set up in ArcPad. A custom form was also created for faster input of hydrant data collection and updates. The (MLTMUA) Hydrant Flushing Program clearly illustrated how the use of ArcPad, GPS and mobile technology might be utilized for asset management projects or other projects which require field data collection activities and GIS integration. With accurate attribute information of both hydrant condition and locations, the (MLTMUA) GIS Department will be better service it customers as well as provide the necessary tools to make cost effective decisions. Although the full value of the project has yet to be realized, the payoff is already apparent and it is our hope that future expansions of the program will be of further benefit to our staff, customers, and community.

New Jersey Department of Environmental Protection (NJDEP)

Bureau of GIS
P.O. Box 428
Trenton, NJ 08625
609-633-1203
Lou Jacoby - Lou.Jacoby@dep.state.nj.us
GIS Specialist
Dnyanada Bhide - Dnyanada.Bhide@dep.state.nj.us
GIS Programmer

NJDEP's NJ-GeoWeb and Other Geospatial Projects

A major initiative of the NJDEP is the building of a "next generation" GIS Internet viewer, NJ-GeoWeb. In NJ-GeoWeb, ESRI's ArcIMS has been coupled with an easy-to-use enterprise administration software, Orion's OnPoint6.1, to provide users with new exciting features a new interface. Now, NJDEP will be able to more easily and rapidly assist programs that regulate air, water and land, in developing customized mapping applications for both Internet and Intranet communities.

"What's in My Neighborhood" is the first NJ-GeoWeb profile released to the public. This profile allows the public and regulated community to look around their neighborhood for regulated sites and be able to query the NJDEP's live enterprise database to see parametric data associated with releases, violations and enforcement actions. Many more profiles (roles) will be developed and the NJDEP has hopes that this application will be used by other agencies to support interactive mapping from different points of view.

In addition to NJ-GeoWeb, NJ DEP will display information on other recent geospatial projects, including new or updated data.

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Land Use Analysis Decision Support System (LANDS)

The LANDS model is necessary to address the requirements of the Highlands Water Protection and Planning Act (Highlands Act) and provide regional guidance for the implementation of the policies in the Regional Master Plan. The Highlands Council developed the LANDS model recognizing the range and nature of land throughout the Highlands Region in order to create overlay zones that best represent the requirements of the Highlands Act and the policies of the Plan.

New Jersey Meadowlands Commission

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Utilizing Google Earth for Emergency Management

The New Jersey Meadowlands Commission (NJMC) is a regional planning agency for the Hackensack Meadowlands District (HMD), located six miles west of New York City. The NJMC is responsible for protecting the delicate balance of nature, providing for orderly development, and managing solid waste activities across portions of fourteen municipalities.

In 2002, the NJMC's Board of Commissioners initiated a directive to provide GIS infrastructure to constituent

municipalities. As a result, the NJMC updated the regional information collected over the years and now provides a stable and secure system from which to distribute spatially explicit information about the region.

With the District's dense population and close proximity to New York City, an important component of the system is focused on emergency management. As a result, the NJMC developed the Emergency Response Information System (ERIS), which is a collection of tools that emergency officials and first responders utilize to manage, plan, and respond to emergency situations. The latest component of the ERIS involves integrating spatial and tabular information into Google Earth. The NJMC extracted all critical information from their enterprise geodatabase, packaged the data with symbology and labeling, and imbedded it into Google Earth. Fire officials, police officers, fire departments, and other emergency responders have access to the data via wireless internet technologies. The data resides on servers at the NJMC which allows for continual updates and enhancements to the system. Google Earth was chosen to visually represent the information for many reasons including speed, availability, user-friendliness, recognizable interface, and cost-effectiveness.

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GIS Specialist

OpenLayers Open Source Mapping Demo

NJ OGIS will present a live demonstration of the work that has been done to marry OpenLayers and ArcGIS Server to provide a lightweight, highly customizable JavaScript plug-in for anyone's website.

OpenLayers is an Open Source map viewing library, written in pure JavaScript. The OpenLayers library provides a JavaScript API which makes it easy to incorporate maps from a variety of sources into your webpage or application. OpenLayers currently has support for OGC WMS layers, map caches, navigation, spatial queries, icons, markers, and layer selection.

In addition to OpenLayers, ExtJS (another Open Source JavaScript API) is used to provide windowing support within a browser to create a rich application interface for more advanced websites.

Stony Brook-Millstone Watershed Association

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Alternatives to ArcGIS

Many organizations would like to benefit from the use of GIS tools and abundantly available data but don't have the funding to purchase expensive software. This presentation takes a look at alternatives to traditional GIS packages by comparing low priced or free softwares such as ArcExplorer free viewer, Manifold GIS, Grass, and MapWindow Open Source GIS.

Sussex County

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Using ESRI's ModelBuilder to Develop a GIS-based Methodology for Estimating Annual Surface Water Pollutant Loads from Nonpoint Source Pollution

Nonpoint source (NPS) pollution, unlike pollution from industrial and sewage treatment plants, comes from many diffused sources. NPS pollution is transported by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into lakes, rivers, wetlands, coastal waters, and even our underground sources of drinking water.

ESRI's ModelBuilder provides a graphical modeling framework for designing and implementing geoprocessing models. The Sussex County of GIS Management has developed a GIS-based methodology / model for estimating annual surface water pollutant loads utilizing freely available land use, HUC14, municipal zoning GIS data and pollutant load coefficient values from the NJDEP Stormwater Best Management Practices (BMP) manual. This intermediate-level presentation will demonstrate how ModelBuilder is being used for the quantification of annual total phosphorus, nitrogen, and sediment loads for the Papakating Creek and Clove Brook watersheds within the Wallkill River watershed in Sussex County, New Jersey, under present, future (100% build-out), and natural state conditions for a single or multiple, contiguous HUC 14s sub-watersheds.

MAP 1

Historic Aerial Views of Atlantic County

Adding to the existing NJ digital archive for Atlantic County, years of aerial views will include 1930s, 1963, 1977, 1983, 1995, 2000, 2002, 2004 & 2007. This data development is almost complete and it will soon be incorporated into the county's IMS Site Investigator site.

MAP 2

Flood Hazard Mitigation and Flood Control

A glance at the development of a comprehensive plan to identify areas of recurring flooding, develop mitigation strategies to address these areas of flooding, prioritize and then implement actions to alleviate areas of recurring flooding along Atlantic County's transportation network.

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MAP 3

2010 Local Update of Census Addressees (LUCA) Participation by Governmental Units (GU) in the Philadelphia Region

The Local Update of the Census Addresses (LUCA) program works with local governments to update lists of physical addresses and maps of streets and boundaries. The map of the LUCA program in the Philadelphia region shows which municipalities are participating in the program and the kinds of address list and maps they selected. The LUCA program is one the largest programs in the Geography Division within the Census Bureau funded by Congress.

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MAP 4

Freehold Soil Conservation District- Field and Office Data Collection for the Monmouth and Middlesex County Area

The Freehold Soil Conservation District has been collecting field data on several items over the years. The main item that started the data collection was the construction of storm water management systems, i.e. Detention basins, Retention basins, infiltration basins and underground storage structures.

A two person team used an ESRI /Trimble system to go to the

field and record the condition of the structures. We then saw the importance to track the project information that built them. We initiated an in house Map Objects program to map the location of the projects that receive certification of the Soil Erosion Control Plans under our jurisdiction.

The stream line data available did not contain a lot of local name information, so we initiated a stream new name field. The ongoing goal is to create a modified stream layer that will contain the location of the studies. The information is used by the District to review the projects submitted.

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MAP 5

How do the original Monopoly™ property values compare to modern times

Monopoly™ is a board game that was created in the 1930s where players compete against each other to accumulate property. GIS is a contemporary technology that can be used to track property values. The properties used in the game are based upon the streets of Atlantic City, New Jersey. A system has been developed to see if the 1930s property values assigned to the game board would still be valid using the 2000s era property values.

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MAP 6

Spatio-temporal Analysis of Land use/Land cover, Surface Temperature and Urbanization – A RS-GIS Approach

New York metropolitan area, the largest urbanized hub on the US East coast, has been experiencing a rapid growth of population in the last few decades. Due to a phenomenon called the urban heat island (UHI), the air/surface temperatures in the metropolitan area are higher than the neighboring suburbs. The higher air/surface temperature can impact air quality, public health and the demand for energy. This study seeks to map and investigate the patterns of land use/land cover (LU/LC) changes causing increase in air/surface temperature and their relationship to population density using remote sensing/GIS data and technology. The objective is to establish a geodatabase for NY metropolitan area integrating physical and demographic attributes acquired from variety of sources including Census Bureau, NASA, USGS and NJDEP.

Patterns of LU/LC and air/surface temperature were derived from Landsat TM and ETM+ images of 1988 and 2002. LU/LC classification was performed using Boolean operators on spectral

signatures of the land surface features and selected physical indices. Biophysical indices (i.e. Normalized Difference Vegetation Index (NDVI), Normalized Difference Water Index (NDWI), Normalized Difference Bareness Index (NDBal) and Normalized Difference Build-up Index (NDBI)) were computed and integrated into LU/LC classification system. The TIGER (demographic) data were obtained from US census bureau were added in order to study the contribution of population concentrations on air/surface temperature and its relationship with LU/LC changes. The results of analyses along with ancillary data derived from NJDEP and USGS will be integrated into a geodatabase for establishment of correlation among the physical and demographic attributes. The geodatabase provides a reference baseline which can be utilized in future investigation of global warming as related to air quality, public health and ultimately demand for energy.

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MAP 7

Patterns of Animal Shelter Intakes in Burlington County of Burlington

The Burlington County Animal Shelter receives 7,000-10,000 animals per year. In 2008, the Burlington County Health Department asked the IT, GIS Section to help them visualize patterns in this data spatially. To do so, the owner's address or pick up location for each animal was address matched using a tiered approach. Addresses were first attempted to match to the county-wide parcel layer and, if that was unsuccessful, another attempt was to match the address to TeleAtlas roads.

This map shows the resulting data which is being examined at by animal species (dog, cat, feral cat, other) and being compared to locations of rabies incidents.

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MAP 8

8 Years of Change: Finding New Addresses for LUCA

"The Local Update of Census Addresses program is a decennial census geographic partnership program that will allow the Census Bureau to benefit from local knowledge in developing the 2010 Census. Allows tribal, state, and local governments to contribute to a more complete and accurate census for their community by reviewing and commenting on the list of housing unit and group quarters addresses that the Census Bureau will use to deliver questionnaires within their community."

Local Updated of Census Addresses (LUCA) Program Training Workshop. 2010 Decennial Census Program. U.S. Census Bureau, March 2007. [ch. 1 pg. 6].

How is Burlington County participating in LUCA?

Burlington County GIS Department is using aerial photography from 1995/1996 and 2000, and comparing it with 2005 imagery to evaluate which areas of the county has innovative housing developments. Along with aerial photography, we have also been looking at new roads and tax parcels since 2000. Once new development is eminent, we select those new parcels and copy/paste them into a LUCA attribute table to identify which municipality it is located in. After the selecting is completed throughout the county, the final method is to provide the US Census Bureau with local updated addresses.

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CyberTech Systems and Software is a global information technology services and solutions provider. We have worked extensively with public and private sector organizations throughout the country since 1998. We are recognized as a valuable provider of resources and solutions in the web, client server, database, and GIS space.

CyberTech is a New Jersey contract vendor for GIS Enterprise and Application Development Services (see NJ term contract T-2158). Contact Steve Faluvegi at 215-208-5809.

CyberTech's practices are engaged with several industry solution groups, including Government, Utilities, Media, Health Care, and Transportation in developing joint solutions for the marketplace.

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Applied Imagery is a geospatial software company specializing in 3-D visualization and exploitation of LiDAR data. Applied Imagery's software, the Quick Terrain Modeler, is a powerful but easy to use tool that quickly builds enormous point cloud and/or gridded elevation models, navigates through them in real time, and provides valuable Quality Assurance and analysis tools. The Quick Terrain Modeler performs change detection, cross section analysis, line of sight/viewshed analysis, volume calculations, photo draping, and a variety of other analytical tools. The Quick Terrain Modeler imports and exports a wide variety of data formats and can serve as a supplement to GIS workflows or as a standalone exploitation tool. While optimized for LiDAR, the Quick Terrain Modeler can also be used with any 3-D data such as Synthetic Aperture Radar (SAR), DTED's, USGS DEM's, and/or elevation data extracted from photogrammetry. Applied Imagery's software is in use in the US Department of Defense, US federal and state government agencies, the surveying community, academia, and industry in the US and internationally.

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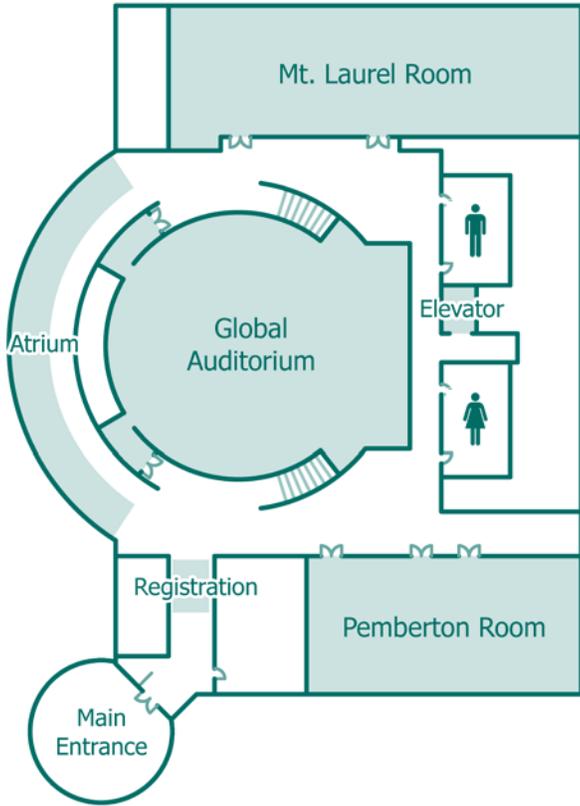
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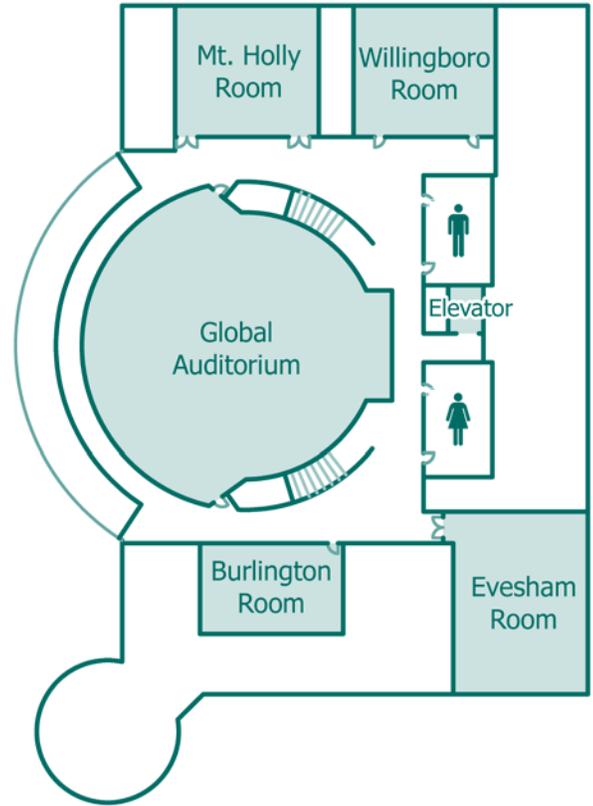
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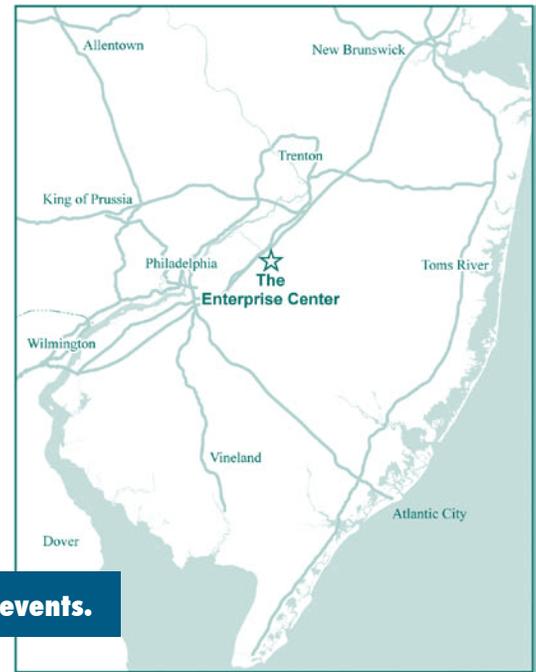
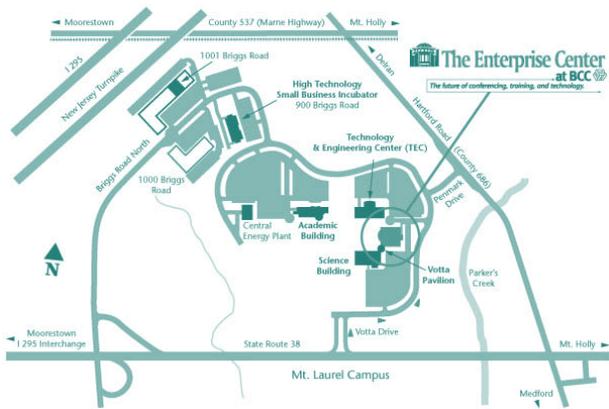
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