

CONFERENCE

PROGRAM

Exhibits

GIS Lab

MACURISA 2012

Map Gallery

Techspo

Atlantic City

Oct 22-24, 2012

Workshops

Moderated Sessions

# Monday October 22, 2012

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

Measuring NJ: People, Places and our Economy <i>Hatteras 4</i>	Advanced GPS <i>Biscayne A</i>	Cloud Based Mapping Applications <i>Grand III</i>	An Overview of Open-Source GIS Software <i>*A URISA certified Workshop</i> <i>Grand I</i>	Land Record Integration with GIS/CAMA <i>Biscayne C</i>	LIDAR: Mid-Atlantic Availability, Useful Applications, and Hands-On Practice <i>Hatteras 1</i>
---	-----------------------------------	--	---	--	---

# Tuesday October 23, 2012

7:00 AM – 10:30 AM	Registration					
8:00 AM – 9:00 AM	Breakfast in Exhibit Hall					
9:00 AM – 10:00 AM	Welcome & Keynote Address <i>Exhibit Hall</i>					
10:00 AM – 10:30 AM	Break in Exhibit Hall					Esri Mobile Learning Lab  Open 10am to 5pm  Hatteras 2
10:30 AM – 12:00 PM	Get the Facts on Tax Mapping <i>Biscayne A</i>	Digital Submissions <i>Biscayne C</i>	Natural Resource Management <i>Hatteras 4</i>	GIS Management Strategies: Working Within Your Budget <i>Hatteras 1</i>	Techspo <i>Grand I</i>	
12:00 PM – 1:30 PM	Lunch in Exhibit Hall					
1:30 PM – 3:00 PM	Introduction to Tax Mapping Procedures <i>Biscayne A</i>	Data Accuracy and Standards <i>Biscayne C</i>	Using GIS for Asset Management <i>Hatteras 4</i>	Environmental Applications of GIS <i>Hatteras 1</i>	Techspo <i>Grand I</i>	
3:00 PM – 3:30 PM	Dessert Break in Exhibit Hall					
3:30 PM – 5:00 PM	Spark Your Interest: Lightning Talks <i>Hatteras 1</i>	GIS Education & Community Outreach <i>Biscayne C</i>	Government Operations Panel <i>Grand III</i>	Regional Planning Initiatives <i>Biscayne A</i>	Techspo <i>Grand I</i>	
6:00 PM – 10:00 PM	Exhibit Hall Networking Banquet					

# Wednesday October 24, 2012

8:00 AM – 11:00 AM	Registration					
8:00 AM – 9:00 AM	Breakfast in Exhibit Hall					Esri Mobile Learning Lab  Open 8am to 2pm  Hatteras 2
9:00 AM – 10:30 AM	Records, Maintenance, and Workflows <i>Biscayne A</i>	Legalities of Boundaries <i>Biscayne C</i>	Spatial Analysis and Tools <i>Grand I</i>	Emerging Technologies <i>Hatteras 1</i>		
10:30 AM – 11:00 AM	Break in Exhibit Hall					
11:00 AM – 12:30 AM	Ask the Experts: Digital Tax Mapping Panel <i>Grand III</i>	Data Integration and Projects <i>Biscayne C</i>	Public Safety GIS Implementation <i>Grand I</i>	GIS Solutions <i>Hatteras 1</i>		
12:30 PM – 1:30 PM	Lunch in Exhibit Hall					
2:00 PM – 4:00 PM	New Jersey Geospatial Forum Fall Quarterly Meeting ( <i>open to the public</i> ) <i>Grand III</i>					

# WELCOME TO MAC URISA'S 16TH 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 MAC URISA 2012 Conference at the newly renovated Golden Nugget Atlantic City. Our goal for this, our 16th regional GIS conference, is to provide you with exceptional opportunities for you to learn, network, and achieve continuing education credits in your discipline. We have created an exciting multi-day conference format which includes workshops, technical sessions, technology exposition, and learning laboratory.

We invite you to visit our Exhibit Hall which features some of the premier geospatial technology and services available today. Our event would not be possible without our exhibitors and sponsors. We would like to recognize and thank our Premier Sponsors: Esri, JMT Technology Group, Civil Solutions, and Michael Baker Corp. We appreciate the support of all of our exhibitors.

We thank you for choosing to attend our conference and aim to provide you with a comprehensive learning experience. In this regard, we have partnered with the APA-NJ and NJSPLS to pursue accreditation of our technical sessions to support your continuing education needs. As always, attendance at MAC URISA 2012 will also earn GISCI Certification points. As a bonus, the New Jersey Geospatial Forum will hold its public quarterly meeting on site at the end of the conference. This is an exciting opportunity to increase exposure for both of our organizations.

To start this conference, we have selected Mr. Timothy Boucher, Senior Conservation Geographer at The Nature Conservancy, as our Keynote Speaker. Tim will be illustrating how spatial science is used to inform decisions on how and where this unique organization works. He will illustrate the depth of their commitment to using GIS with examples that span the globe in this opening session.

As you look over the details of the program we think you will recognize that our conference offers a rewarding opportunity for professional growth. This could not be achieved without the hard work and dedication of our conference committee and supporters whose commitment to upholding our mission is unmatched.

Enjoy the conference!

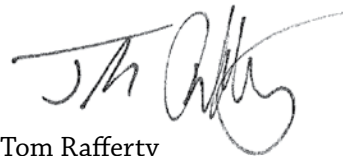
Sincerely,



Paul Caris  
President



Kathryn McSorley  
Conference Chair



Tom Rafferty  
Conference Co-Chair

## TABLE OF CONTENTS

Conference At-A-Glance	2	Premier Sponsors	9
Table of Contents	3	Monday, Pre-Conference Workshops	10
MAC URISA Leadership	4	Tuesday Program	12
Remembering Ken Sipos	5	Wednesday Program	17
Keynote Speaker	6	Techspo Directory	20
Conference Highlights	7	Exhibitor Listing	22
Conference Committee	8	Golden Nugget Floor plan	back cover

## MAC URISA LEADERSHIP

### PRESIDENT

Paul Caris, GISP  
New Jersey Department of Environmental Protection

### VICE PRESIDENT

Dawn McCall, GISP  
Princeton University

### PAST-PRESIDENT

Kathryn McSorley, GISP  
Bergen County Department of Health Services

### SECRETARY

Tom Rafferty, GISP  
New Jersey Office of Emergency Management

### TREASURER

Seth Hackman, GISP  
New Jersey Department of Environmental Protection

### TRUSTEES

John Bocchino, GISP  
New Jersey Department of Environmental Protection

Dom Elefante  
New Jersey Meadowlands Commission

Karen Mitchell, GISP  
New Jersey Office of GIS

John Reiser  
Rowan University

Tom Tiner, GISP  
Michael Baker Corporation

Merrilee Torres, GISP  
Burlington County Department  
of Information Technology

## Board Appointments

In accordance with MAC URISA by-laws, President Paul Caris has made two appointments to the board. Dawn McCall has been appointed to fill the Vice President role made vacant by the sudden passing of Ken Sipos. Tom Tiner was appointed to fill Ms. McCall's trustee seat. Both of these positions will be up for re-election in 2013.

## 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](http://www.macurisa.org)

## REMEMBERING KEN SIPOS

The MAC URISA community mourns the loss of a dear friend and longtime board member. Ken Sipos, Vice President, passed away on July 28 at the age of 72. He was a GIS enthusiast and cheerful volunteer.

Ken grew up in Frenchtown, NJ. He studied at New York University and Rider University before moving to Philadelphia in the late 60s. Ken followed in his father's footsteps and entered the real estate business and eventually worked for the City of Philadelphia, a job he kept for over 40 years. He was involved in most of the major real estate transactions the city purchased, including the center city commuter rail tunnel and airport high speed rail line. He was an incredibly active person in a number of professional organizations. It seemed he had time to volunteer to anyone who asked.



Professionally, he was a member of such organizations as The Mayor's GIS Task Force and The City's Land Records Technology Committee. He was active in DVRPC's Information Resources Exchange Group since the early 1990s, chairing that organization from 2004 to 2006. He was their head volunteer for the National Government Webmasters 2007 Conference. As Joe Fazekas from DVRPC shared, "Ken was always the first to volunteer and always curious, no matter what the topic was." He was very active with ESRIMUG and URISA International (kind words from Wendy Nelson, Executive Director of URISA are below) and strived to get all GIS organizations to work better with each other.

For nine years in the late 70s, early 80s, Ken owned and operated Magyar Hungarian Restaurant at 20th and Sansom Streets in Center City Philadelphia. Cooking was a passion for Ken and his restaurant was selected to supply the cookies for the 1981 Presidential Inauguration. Gardening was another favorite hobby of Ken. When he was growing up in Frenchtown his family farm grew tomatoes for Campbell Soup and up until his final days Ken still had a vibrant garden. His other dedication was to the arts. Ken volunteered his time and energy as stage manager for several theaters in Philadelphia and New York City and was part of the team that organized the Philadelphia Fringe Festival. With all of his volunteering he had a vast network of friends and colleagues. If you had a problem it seemed Ken knew somebody for you to contact to solve it.

We end our remembrance of Ken with his own words. The following is taken from an interview with him in the Sept./Oct. 1999 Issue of URISA News: "When did you first become involved with URISA? Way back in 1989, Chris Perks dragged me into a meeting of the URISA organization and cajoled me into serving on a committee and then the Board of Trustees in the early 1990's. I'm active with MACURISA, involved in all parts of the Chapter's annual conference, including coordinating the production of the conference proceedings. I participate in poster and paper presentations of GIS topics (at the Chapter and National levels). I think it's important to be involved in both the URISA International and Chapter groups. At the local level, you get to meet with people in the same boat as yourself more frequently and share ideas and such. I belong to URISA International because I have to stay updated with technology and what better way to do that than with the Journal and other communications from the main association for government technology. And I look forward to the yearly conference. There are always new people to meet and some great presentations. I leave with some good ideas every year."

*URISA has lost an amazing friend and volunteer. In addition to all of his contributions to MACURISA, Ken somehow found the time and energy to volunteer for URISA International. He was one of the first people I met when I started working for URISA. Always positive and eager to contribute, Ken served on both the annual conference and leadership development committees, and was a reviewer for the Exemplary Systems in Government awards for years. Most of all, we'll miss Ken's friendship. Rest in peace, dear Ken, knowing that you were an inspiration to many!*

*Wendy Nelson  
Executive Director - URISA*

## KEYNOTE SPEAKER

### Timothy Boucher

*The Nature Conservancy*



Tim is a senior conservation geographer at The Nature Conservancy. Working in international conservation science for the past 15 years, he has used remote sensing and geographic information science to assess habitat condition, protection, and threats. He has conducted field assessments on six continents, applying spatial analyses to a wide range of conservation issues ranging from marine spawning aggregations in Belize to global land-cover analysis.

Recently, he investigated the linkages between conservation and human well-being. This research assessed the condition of grassland conservation projects that have socio-economic components. Using satellite data, he tested whether the conservation action has resulted in improved or stabilized grassland condition by comparing the conservation area against control sites. This work was conducted in South Africa, Mongolia, Ecuador and Kenya. Tim is currently conducting training sessions to expand the use of this methodology throughout the Conservancy.

He is also working on the Dow Collaboration – one that will help businesses incorporate the value of nature into their decision making. Specifically, he is investigating the effects of climate change on coastal habitats and their value on mitigating natural hazards.

Amongst his many publications, Tim is a co-author and the senior geographer for the Atlas of Global Conservation, and responsible for publishing the maps online.

Tim is a South African native, has a Master's degree in Geography from the University of Maryland, enjoys photography, hiking, and is an avid birder with an enviable life list.

*Keynote address is Tuesday, 9AM in the Exhibit Hall.*

## A SPECIAL THANK YOU

We would like to recognize the following Premier Sponsors of MAC URISA 2012.



Esri is the world leader in the geographic information system (GIS) software industry. Visit us at [www.esri.com](http://www.esri.com)



JMT Technology Group is a progressive geospatial and information technology services provider that assists a variety of industries to solve complex business challenges through the use of web, desktop, and mobile technologies.



Civil Solutions' fundamental objective is to provide high-end geographic information systems (GIS) and related technology services through innovative problem solving and cost effective solutions.



Michael Baker, Jr Inc. is a national leader in implementing complex enterprise geospatial information technology (GIT) solutions and applying advanced mapping systems for public and private sector clients including telecommunications, pipelines and transportation.

## Poster and Map Hall

Posters are a great way to share your projects and experience with others and 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 Tuesday night's banquet. Please stop by the registration booth for details on how to register your map.

## 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 22.

## Techspo Showcase

The Techspo is composed of two components:

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

Techspo presentations are informal and much less structured than a paper presentation. At scheduled times, each presenter will give a 15 minute demonstration, summary of their project, or give a brief introduction and then field questions. The focus of Techspo 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.

## Exhibit Hall Networking Banquet

Relax and enjoy a social hour and dinner with the company of your colleagues as you visit the Exhibit Hall after a 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!

## Esri Hands-on Learning Lab Sessions

Take Esri training at your own pace in the Hands-on Learning Lab. Each lesson includes a prerecorded presentation and exercises and is roughly 45 minutes in length. Esri staff will be on hand to answer your questions. Come in when you can—no advance registration is required. Learn to build Web applications with the ArcGIS Web APIs or explore topics such as animation and Python scripting. A wide variety of topics is available for both GIS beginners and veterans. Available modules are listed below:

1. Basics of the geodatabase model
2. Creating a map in ArcGIS for Desktop
3. Designing web applications using ArcGIS for Server
4. Editing with ArcGIS for Desktop
5. Geocoding with ArcGIS for Desktop
6. Getting started with Business Analyst Online & Community Analyst
7. Introduction to ArcGIS for Desktop
8. Introduction to ArcGIS for Server
9. Introduction to ArcGIS Network Analyst
10. Introduction to ArcGIS Spatial Analyst
11. Introduction to geometric networks for utilities applications
12. Introduction to geoprocessing using Python
13. Introduction to linear referencing
14. Introduction to versioned editing
15. Sharing data with the Community Maps Program
16. Sharing maps and tools using ArcGIS Online
17. Spatial statistics for public health
18. What's new at version 10.0 and 10.1
19. Working with CAD in ArcGIS for Desktop

Visit the Esri Hands-on Learning Lab located in Hatteras 2, Level 4.

Open Tuesday 10am-5pm and Wednesday 8am to 2pm.

## CONFERENCE COMMITTEE

Kathryn McSorley, GISP, Bergen County Department of Health Services, *Conference Chair*  
Tom Rafferty, GISP, New Jersey Office of Emergency Management, *Conference Co-Chair*

### Program

John Bocchino, GISP, New Jersey Department of Environmental Protection, *Team Leader*

### Workshops

Sharon Mollick, GISP, Cumberland County Planning Department, *Team Leader*  
Trish Long, US Natural Resources Conservation Service

### Breakout Sessions

Paul Caris, GISP, New Jersey Department of Environmental Protection, *Team Leader*  
Jennifer Angell, CDMSmith

### Techspo

Merrilee Torres, GISP, Burlington County GIS, *Team Leader*  
Dan Constanza, Burlington County GIS  
Matt Lashendock, Burlington County GIS

### Posters

Dom Elefante, New Jersey Meadowlands Commission  
*Coordinator*

### Exhibitors

Jennifer Rovito, Rutgers University, *Team Leader*  
Dawn McCall, GISP, Princeton University

### Registration

Karen Mitchell, GISP, New Jersey Office of GIS  
*Team Leader*  
Edith Konopka, GISP, New Jersey Office of GIS

### Publicity

John Reiser, Rowan University, *Team Leader*  
Christopher McClain, Brick Township MUA

### Venue

Matt Duffy, GISP, Atlantic County Planning Department  
*Team Leader*  
Saiful Alam, Atlantic County Planning Department  
Sarah Taylor-Deak, Atlantic County Planning Department  
John Garry, Atlantic County Planning Department  
Barry Hackett, Atlantic County Planning Department

### Volunteers

Kiersten Gauntt, GISP, Burlington County GIS, *Coordinator*  
Pritpal Bamhrah, Rutgers University  
Richard Bartholomew, Rutgers University  
Kyle Crawford, Rowan University  
Alexa Gauntt, University of Maryland  
Kevin McManmon, Community College of Philadelphia  
Christopher Nagy, Rowan University  
Guy Terwiliger, Burlington County College  
Brian Yank, Stockton College

### Finance

Seth Hackman, GISP, New Jersey Department of Environmental Protection, *Treasurer*

## BOARD ELECTIONS

Following this conference MAC URISA will hold its annual election for the Board of Trustees. Paul Caris, President, has decided not to run for re-election and will transition into the position of Past President.

Per MAC URISA's Bylaws the following officer positions are up for election: President and Secretary. To be eligible for an officer position, a candidate must have previously been elected to the Board as a Trustee. Each officer position will serve a two year term. Also up for election this year are three Trustee positions. Each of those positions also will serve a two year term.

This year's slate of candidates are:

*Officers:*

President: Tom Rafferty,  
New Jersey Office of Emergency Management  
Secretary: Kathryn McSorley,  
Bergen County Department of Health Services

*Trustee (vote for three):*

Dom Elefante, New Jersey Meadowlands Commission,  
*incumbent*  
John Reiser, Rowan University,  
*incumbent*  
Tom Godish, Intergraph Corporation  
Patty Hicks, New Jersey Office of Emergency Management  
Burt Simpson, GISP, Address Access LLC



## PREMIER SPONSORS

MAC URISA would like to thank the following premier sponsors for their support and contributions to our organization.



850 S White Horse Pike  
PO Box 579  
Hammonton, NJ 08037  
P: 800-924-0482  
F: 609-704-8011  
<http://www.arh-us.com>

Civil Solutions is a progressive GIS firm versed in data development, custom “service oriented” application programming including ArcPad and ArcGIS Server. Our organization offers a host of GIS services including parcel, utility and tax mapping; ArcIMS data hosting; GIS software customization; consultation and implementation services. We have provided services for over one hundred agencies distributed among federal, state, county and municipal organizations. Our experience and innovation provide cost effective solutions for both small and large clientele. Leverage our experience to implement an innovative solution to create your geographic switchboard.

American Metro Boulevard  
Hamilton, NJ 08619  
P: 609-807-9575  
[www.mbakercorp.com](http://www.mbakercorp.com)

Baker is a national leader in implementing complex enterprise geospatial information technology (GIT) solutions and applying advanced mapping systems for public and private sector clients including telecommunications, pipelines and transportation. With more than 60 years of expertise, Baker has mapped millions of square miles of the earth’s surface while supporting engineering and construction, water resources and environmental programs. More recently, Baker has expanded its capability through an innovative Aerial and Mobile LiDAR(Light Detection and Ranging) systems that accurately determines range, elevation, and other critical mapping data. With hundreds of GIS, survey, mapping and IT professionals in Geospatial Service Centers across North America, Baker is a GIT powerhouse of experience and resources.



161 Hampshire Drive  
Sellersville, PA 18960  
P: 267-354-1365  
[www.jmttg.com](http://www.jmttg.com)

JMT Technology Group is a progressive geospatial and information technology services provider that assists a variety of industries to solve complex business challenges through the use of web, desktop, and mobile technologies. We help our clients to access and visualize their data making it possible to ask and answer questions that would otherwise not be possible. Our industry experience allows our clients to receive more immediate and measurable return on investment through our ability to facilitate a proven, collaborative process that ensures the best solution for each unique challenge.



1400 Morris Drive, Suite 102  
Chesterbrook, PA 19087  
P: 610-644-3374  
F: 610-644-3379  
[www.esri.com](http://www.esri.com)

With annual sales of more than \$660 million, ESRI has been the world leader in the geographic information system (GIS) software industry for more than 30 years. As the leader in GIS technology, ESRI offers innovative solutions that will help you create, visualize, analyze, and present information better and more clearly. Working with location information, ESRI’s GIS software and solutions give you the power to solve problems you encounter every day. Organizations around the world, as well as local, state, and federal government agencies, are using ESRI GIS software to make smart and timely decisions. ESRI provides powerful GIS solutions to more than 300,000 clients in more than 150 countries. In fact, ESRI is leading the industry in providing mapping technology that meets today’s global needs. ESRI offers GIS solutions to help you unlock the spatial component of your valuable data and see your organization’s information from a new perspective.

## MONDAY OVERVIEW

7:00 AM – 9:30 AM	Registration
7:30 AM – 8:30 AM	Breakfast
8:30 AM – 5:00 PM	Full-Day Workshops
12:00 PM – 1:00 PM	Buffet Lunch
5:30 PM – 6:30 PM	MAC URISA Board Meeting

## PRE-CONFERENCE WORKSHOPS

Monday, October 22, 2012

8:30 AM – 5:00 PM

### Measuring New Jersey - People, Places and our Economy

Instructors: David Kraiker, United States Census Bureau and Brunie Sanchez, United States Census Bureau

Room: Hatteras 4, Level 4

Learn thematic mapping of data from the US Census Bureau's Programs such as: Decennial Census, American Community Survey, Population Estimates and Economic Census to the TIGER/Line Shapefiles. This in-depth pre-conference workshop will guide you step by step on how to extract data tables from the American Fact Finder into a format compatible for ArcGIS. Learn how to join data and finally create thematic mapping!

### Advanced GPS

Instructor: Mike Popoloski, Mapco, Inc.

Room: Biscayne A, Level 4

GPS is a widely used technology for collecting locational data for a GIS. Unfortunately many misconceptions exist about this technology and substantial errors are introduced into datasets as a result. This advanced workshop will focus on bringing current users up to date on the latest data collection methods and technology while introducing new users to the technology. Many changes have occurred just over the last few years in the GPS industry and this workshop will go over those changes. Participants get hands-on experience with the latest GIS data collection devices and will take part in the creation of several GIS layers. By the end of the workshop participants will have experienced the new GPS workflow and been made aware of the pitfalls in GPS data collection. Time will be made for an extensive question and answer session for those who currently use Trimble equipment and are looking for help.

### Cloud Based Mapping Applications

Instructor: Sean McGinnis, New Jersey Office of GIS

Room: Grand III, Level 3

This workshop will provide an overview of Cloud Based Mapping Applications. Due to the ever changing nature of cloud offerings specific workshop exercises and materials will be listed in this space starting in late summer. This is to ensure the information presented at this workshop contains the most up to date cloud technologies.

Requirements: Please bring your own wi-fi enabled laptop to the training. Hands on exercises in the cloud will be provided as part of this workshop.

### Land Record Integration with GIS/CAMA

Instructor: F. Peirce Eichelberger, gDBMS, Inc.

Room: Biscayne C, Level 4

A new national initiative is ongoing to better integrate data from Clerks and Recorders into GIS mapping and CAMA update workflows. The initiative is being led by Clerks and Recorders across the country. Recorded instruments are the primary workflows for map and attribute updates of many GIS layers and themes. The instrument data is also the most important update to CAMA and Mass Appraisal systems. Recorders and Clerks also recognize the importance of GIS functionality as a method to access their land records. This access means that there are more users for the land records and new methods of access that can also lead to new revenue streams.



## An Overview of Open Source GIS Software, a URISA Certified Workshop

Instructors: Sara Yurman, Spatial Focus, Inc., and Paul Caris, NJ Department of Environmental Protection

Room: Grand I, Level 3

Free and open source software (FOSS) has been offering choices to computer users for a number of years. Over the past few years the open source choices in GIS have been broader and more capable than ever before. This workshop will focus on GIS open source software. It will give an overview of the current developments from technical and management perspectives. Selected packages and their applications in various projects will be demonstrated and discussed.

Topics Covered:

- Open Source GIS background and development
- Overview of Open Source GIS spatial functionalities
- Live demonstration
- Interoperability: The Open Source GIS spectrum
- Planning and implementation issues

Intended Audience: Anyone interested in free and open source geographic information system software. The workshop will suit both managerial and technical needs and it does not require any prerequisites.

## LIDAR: Mid-Atlantic Availability, Useful Applications, and Hands-On Practice

Instructor: Mike Umansky, Applied Imagery

Room: Hatteras 1, Level 4

While LiDAR is a proven, workhorse technology, many users have little practical experience with it. This is unfortunate because LiDAR is widely available in the Mid-Atlantic Region, can be incredibly useful, and is relatively simple to work with. This session's focus is to introduce basic LiDAR concepts and terminology, review the availability of LiDAR data in the Mid-Atlantic region, and offer hands-on training in a variety of software packages including Quick Terrain Modeler, Google Earth, and ArcGIS.

Topics Covered:

- What is LiDAR
- LiDAR Basics
- Visualization of LiDAR
- Inspection, Editing, & Clean-up (Point Cloud and Interpolated Surfaces)
- Data Fusion (Orthos, Vector Data, etc.)
- Data Analysis (Line of Sight, Flood Simulation, QA, AGL, Slope, Contours, etc.)
- Data Integration & Export



## URISA 2012-13 Conferences & Events

URISA's 2012 Caribbean GIS Conference

November 12-16

Montego Bay, Jamaica

17th Annual GIS/CAMA Technologies Conference

March 4-7, 2013

Albuquerque, New Mexico

URISA Leadership Academy

May 13-17, 2013

San Antonio, Texas

URISA's Fourth GIS in Public Health Conference

June 17-20, 2013

Miami, Florida

## TUESDAY OVERVIEW

7:00 AM – 10:30 AM	Conference Registration Desk Hours
8:00 AM – 3:30 PM	Exhibit Hall Hours
8:00 AM – 9:00 AM	Breakfast in Exhibit Hall
9:00 AM – 10:00 AM	Welcome and Keynote Address
10:00 AM – 5:00 PM	Esri Hands-on Learning Lab
10:00 AM – 10:30 AM	Break in Exhibit Hall
10:30 AM – 12:00 PM	Educational Sessions & Techspo
12:00 PM – 1:30 PM	Lunch in Exhibit Hall
1:30 – 3:00 PM	Educational Sessions & Techspo
3:00 – 3:30 PM	Dessert Break in Exhibit Hall
3:30 – 5:00 PM	Educational Sessions and Techspo
6:00 – 10:00 PM	Exhibit Hall Networking Banquet

## TUESDAY 9:00AM - 10:00AM

### Welcome and Keynote Address

Room: Exhibit Hall

Gather at 9:00 for the Opening Ceremony. MAC URISA President, Paul Caris will welcome attendees to the Golden Nugget and Conference Chair, Kathryn McSorley, will note some of the highlights of this year's conference.

#### Keynote Address

Timothy Boucher, Senior Conservation Geographer  
The Nature Conservancy

## TUESDAY 10:30AM - 12:00PM

### GIS Management Strategies: Working Within Your Budget

Room: Hatteras 1, Level 4

Theme: Management

Successful GIS programs are using new approaches and new technology to provide the benefits of geospatial technology while staying on budget. This is seen at the county and municipal level by delivering geospatial tools via service oriented architecture, cloud-based services and by adopting the Esri Local Government Information Model, and the ArcGIS.com cloud. At the federal level, USDA-NRCS shows how GIS is used to develop State Resource

Assessments that directly impact the budget process. The final presentation addresses the way organizations can provide geospatial and enterprise data access in a cost-effective manner using a cloud-based collaborative portal.

Moderator: John Reiser, Rowan University

#### • **A GIS Paradigm Shift for Local and County Government**

David N. Kunz, GISP, County of Sussex

#### • **Budget Priorities for a Federal Natural Resource Agency:**

##### **What's GIS got to do with it?**

Trish Long, USDA - Natural Resources Conservation Service

#### • **Geographic Information Collaboration**

Richard Rehmann, Civil Solutions, a division of ARH

### Get the Facts on Tax Mapping

Room: Biscayne A, Level 4

Theme: Parcels

This session is crucial for anyone who uses tax maps in their work, whether a surveyor, planner, or GIS professional. Presentations cover information on the history of the transition from paper maps to digital, including the origins and activities of the NJSPLS Digital Tax Map Committee and the State of NJ Division of Taxation Digital Tax Map Task Force. This session will deliver the perspective to understand the issues and dispel the myths about the transition from paper maps to a digital product and process.

Moderator: Lewis H. Conley, Jr., PLS & PP, Van Note-Harvey Associates, pc

#### • **Tax Maps Bringing Accuracy to GIS: The History**

Donald E. Walby, PLS, PP, KS Engineers, P.C.

#### • **Tax Maps Bringing Accuracy to GIS: The Backbone**

Lewis H. Conley, Jr., PLS & PP, Van Note-Harvey Associates, pc

#### • **The Division of taxation enforcement then (paper) and now (digital): The blue book**

Lewis H. Conley, Jr., PLS & PP, Van Note-Harvey Associates, pc



## Natural Resource Management

Room: Hatteras 4, Level 4

Theme: Environmental

Spatial data is at the heart of environmental management. Learn the details of three major environmental management efforts that rely on GIS technology. Discover the intricacies of the Landscape Project and how GIS is being used to delineate shoreline along South Long Beach Island in this technical program. See how spatial data is used in a project screening tool to identify environmental and community impacts on DOT projects in South Carolina.

Moderator: Sharon Mollick, GISP, Cumberland County Planning Department

- **Wildlife habitat mapping for community land-use planning and species conservation**

Patrick Woerner, New Jersey Department of Environmental Protection

- **Delineating tidally referenced shorelines: South Long Beach Island pilot study**

Dan Barone & Roger Barlow, USGS

- **Project Impact Assessment**

Bruce Aquila, Intergraph Corporation

## Digital Submissions

Room: Biscayne C, Level 4

Theme: Surveyor

Let this session provide the keys to understanding digital submissions. Regulations pertaining to digital submissions for subdivisions, wetlands, and SRRA will be discussed. Surveyors, Licensed Site Remediation Professionals (LSRP), planners, and GIS specialists will be able to move through the process more efficiently and effectively after attending this session.

Moderator: J. Peter Borbas, PLS, PP, Borbas Surveying and Mapping, LLC

- **Creating a digital submission for a county GIS**

Bruce Blair PLS, NJSPLS

- **Digital Submissions: Wetlands**

J. Peter Borbas, PLS, PP, Borbas Surveying and Mapping, LLC

- **Digital Submissions: SRRA**

J. Peter Borbas, PLS, PP, Borbas Surveying and Mapping, LLC

## Techspo

Room: Grand I, Level 3

Theme: Techspo

Moderator: Merrilee Torres, GISP, Burlington County Dept. of Information Technology

- **Creating a Mapbook Using ArcPy & ReportLab**

Chris Klaube, Monmouth County - Public Works & Engineering

- **Getting Started with GIS on Smartphones and Tablets**

Christopher McClain, Brick Township MUA

- **Downtown DC BID Data Collection and Asset Management Smartphone**

Bob Pliszka, JMT Technology Group

**TUESDAY 12:00PM - 1:30PM**

## Buffet Lunch

Room: Exhibit Hall

All registrants are invited to partake of a buffet luncheon in the Exhibit Hall. This is a great opportunity to network with your peers as well as visit the exhibit hall, poster displays or techspo tables.

**TUESDAY 1:30PM - 3:00PM**

## Using GIS for Asset Management

Room: Hatteras 4, Level 4

Theme: Asset Management

Asset management is critically important for any organization, and GIS is a key component. But how and where does an organization get started? This session covers the key issues that must be confronted when starting the asset management process. This includes setting mission goals, understanding the roles played by IT and GIS, and implementing current best practices. Experts will also describe how their agencies used GIS and tackled tough asset management projects, and what was revealed in the process.

Moderator: Dom Elefante, New Jersey Meadowlands Commission

- **New Jersey Statewide Curb Ramp Inventory**

Jennifer Wolfram, Michael Baker Jr., Inc.

- **Are You Really Ready for Asset Management?**

Lou Garcia, EA Engineering, Science & Technology, Inc.

- **Mapping Utility Infrastructure within the New Jersey Meadowlands District**

Sal Kojak, New Jersey Meadowlands Commission

## Environmental Applications of GIS

Room: Hatteras 1, Level 4

Theme: Environmental

This is a session for environmental enthusiasts to learn about the use of geospatial technology. With examples ranging from environmental and public health initiatives, fighting invasive species and a newly enhanced interactive environmental mapping application, this session will provide an overview of core uses of GIS in the environmental field.

Moderator: Paul Caris, GISP, NJ Dept. of Environmental Protection

- **NJ GeoWeb 2.0**

Lou Jacoby, New Jersey Department of Environmental Protection

- **Uses of GIS for Environmental and Public Health**

Kathryn McSorley, Bergen County Department of Health Services

- **New Jersey Invasive Species Strike Team Database of Invasive Species**

Michael Van Clef, Ph.D., and Christopher Frost, New Jersey Invasive Species Strike Team

## An Introduction to Tax Mapping Procedures

Room: Biscayne A, Level 4

Theme: Parcels

All jurisdictions in New Jersey now have a digital version of their tax maps. This session will cover the process of making and gaining approval of your tax map. This session is essential for all who need to know about tax map preparation, digital tax mapping standards, and tax map approvals process and reporting.

Moderator: Dawn McCall, GISP, Princeton University

- **The Princeton Experience - The consolidation of multiple municipal tax maps.**

David B. Dixon, PLS, Omland Engineering Associates, Inc.

- **The Division of taxation enforcement then (paper) and now (digital): The Approval Levels**

Lewis H. Conley, Jr., PLS & PP, Van Note-Harvey Associates, PC.

- **The Division of taxation enforcement then (paper) and now (digital): The Reports**

Dawn McCall, GISP, Princeton University

## Data Accuracy and Standards

Room: Biscayne C, Level 4

Theme: Surveyor

Determining the appropriate level of data accuracy and fitness for use is a pivotal part of any geospatial effort. Our presenters in this session will explore data accuracy and standards issues in metadata and realtime GPS. Learn about the history of geospatial positioning standards and how changing technology has led to changes in our understanding and use of data accuracy standards.

Moderator: Mike Cicali, URS Corp

- **Applying HDS Scanning in the GIS, CAD and BIM world**

Mike Cicali, URS Corp, FAA William J. Hughes Technical Center

- **Current Status of the regional real time GPS Smartnet**

Frank Lenik, Leica Geosystems

- **FGDC accuracy standards and metadata**

Jesse Kozlowski, True Measure Consulting

## Techspo

Room: Grand I, Level 3

Theme: Techspo

Moderator: Dan Constanza, Burlington County Dept. of Information Technology

- **Mobile GIS Options From Laptops to Smartphones**

Christopher McClain, Brick Township MUA

- **What's New with Imagery at ArcGIS 10.1**

Seth Van Aken, Esri

- **DEPExplorer: Customizing ArcGIS Explorer for Light GIS Users**

John Fleming and Dnyanada Bhide, NJDEP

Have you tried out the  
Hands-on Learning Lab?

**TUESDAY 3:00PM - 3:30PM**

## Dessert Break

Exhibit Hall

Enjoy some light refreshments before the final educational sessions of the day.

**TUESDAY 3:30PM - 5:00PM**

## GIS in Government Operations Panel

Room: Grand III, Level 3

Theme: Government Operations

Five highly experienced geospatial experts will discuss the use of GIS in government. Take advantage of this opportunity to see and hear a State Geographic Information Officer, the GIS Director for America's fifth largest city, two county GIS Coordinators, and an owner of a private sector company who has done extensive work for large and small governments offer their perspectives on how GIS is used within multiple levels of government. Panelists will provide their views on the challenges of using GIS in these different realms.

Moderator: Karen Mitchell, GISP, NJ Office of GIS

Panel Discussion: Using GIS in Government Operations

Panelists:

- Andrew T. Rowan, Office of Information Technology, State of New Jersey
- Stephen Rice, Morris County Planning
- Jim Querry, City of Philadelphia
- Richard Rehmann, Civil Solutions, a division of ARH
- Eric Anderson, Monmouth County Planning Department

## GIS Education and Community Outreach

Room: Biscayne C, Level 4

Theme: Education

GIS education is the issue, whether it is in a traditional college setting or via web enabled applications for town officials. Where does GIS belong in the college curriculum? What makes students excited about learning GIS and turning it into a career? How do you provide customized GIS tools and data to a non-GIS audience? Learn from the experience of these experts before trying it on your own.

Moderator: John Reiser, Rowan University

### • **Finding a Place for GIS in Traditional Education Institutions**

Deirdre Garrity-Benjamin, Community College of Philadelphia

### • **Community College Of Philadelphia Geospatial Student Club: Students Mapping Our Community**

Helene Iavecchia and Mark Beerley, Community College of Philadelphia - Geospatial Student Club

### • **Designing an intuitive web mapping interface: Municipal Outreach Project within the Meadowlands**

Brian Kennedy, NJ Meadowlands Commission



## Regional Planning Initiatives

Room: Biscayne A, Level 4

Theme: Planning

This session will provide you with an opportunity to learn about three major geospatial initiatives that are delivering information for regional analysis and decision making. Understand the power of accurate elevation data (via LiDAR) for delineating basins and sub basins. Learn about the utility of robust information in the form of a cadastral data model for local government land planning. See the promise of a community-based land use model and growth visualization tool, using CommunityViz, Google Earth Pro, WeTable and ArcGIS.

Moderator: Sharon Mollick, GISP, Cumberland County Planning Department

### • **Rebuilding Subwatershed Boundaries on New LiDAR and 1:2,400 NHD**

Glenn Locke, PMP, GISP, Michael Baker Jr., Inc.

### • **Parcel Management within the New Jersey Meadowlands: The Cadastral Model and Beyond**

Adam Osborn, New Jersey Meadowlands Commission

### • **Delaware Communities Envision their Future Growth - Using ArcGIS and CommunityViz**

Nicole Minni, GISP & Carol Bason, University of Delaware

## Spark Your Interest: Lightning Talks

Room: Hatteras 1, Level 4

Theme: Lightning Talk

This session is full of quick-fire presentations guaranteed to get your GIS creativity flowing. Presentations cover a wide range of core geospatial applications for local government and communities. Hone your skills with some cartography and mobile GIS insights and enjoy the energy of this fast moving session.

Moderator: Tom Rafferty, GISP, New Jersey Office of Emergency Management

- **Hospital Business Development: Understanding Market Potential Using GIS**

James Wooten, IntelliMap Consulting, LLC

- **Mobile GIS Overview**

Christopher McClain, Brick Township MUA

- **Map Design**

Will Stevens, Delaware Valley Regional Planning Commission

- **Case Studies: ArcGIS for Local Government**

James Higgins, Esri

- **Citizen Problem Reporting via Smart Phones**

Bruce Aquila, Intergraph Corporation

- **G is for Geography!**

Kathryn McSorley, Bergen County Department of Health Services

- **Lions Club: How an International service organization can use GIS for redistricting**

Sara Taylor-Deak, County of Atlantic Department of Regional Planning & Development

- **Moving Towards a Public Lands/Open Space Database for New Jersey**

Paul Caris, New Jersey Department of Environmental Protection

- **Working Smarter in the Field with ArcGIS Mobile 10 - leveraging ADAMobile for the collection of Pedestrian Features**

Bob Pliszka, JMT Technology Group

## Techspo

Room: Grand I, Level 3

Theme: Techspo

Moderator: Matt Lashendock, Burlington County Dept. of Information Technology

- **Beginning with Model Builder**

Matthew Duffy, Atlantic County Department of Regional Planning & Development

- **What's New in NJ-GeoWeb 2.0**

Lou Jacoby, New Jersey Department of Environmental Protection

- **ArcGIS and EME**

John Bocchino, New Jersey Department of Environmental Protection

**TUESDAY 6:00PM - 10:00PM**

## Exhibit Hall Networking Banquet

This event will provide you with an opportunity to meet and discuss the topics of the day with other GIS professionals while enjoying a buffet dinner. The evening will include a networking cocktail reception and prizes for the Poster Contest will be awarded. You won't want to miss it!



### Did you know?

You can earn 0.4 GISCI Education Certification points for attending one pre-conference workshop and the conference!



## WEDNESDAY OVERVIEW

8:00 AM – 11:00 AM	Conference Registration Desk Hours
8:00 AM – 1:30 PM	Exhibit Hall Hours
8:00 AM – 9:00 AM	Breakfast in Exhibit Hall
8:00 AM – 2:00 PM	Esri Hands-on Learning Lab
9:00 AM – 10:30 AM	Educational Sessions
10:30 AM – 11:00 AM	Break in Exhibit Hall
11:00 AM -12:30 PM	Educational Sessions
12:30 PM – 1:30 PM	Lunch in Exhibit Hall
2:00 PM – 4:00 PM	New Jersey Geospatial Forum Fall Quarterly Meeting (open to the public)

## WEDNESDAY 9:00AM - 10:30AM

### Emerging Technologies

Room: Hatteras 1, Level 4

Theme: Technology

Stay on top of emerging technologies. The ability to change and adapt enhances the prospect that your organization will succeed in the future. This moderated session will focus on a selection of emerging GIS capabilities, information and/or tools.

Moderator: Karen Mitchell, GISP, NJ Office of GIS

- **How do you integrate the cloud with your on-premises GIS?**

Andrew T. Rowan, Office of Information Technology,  
State of New Jersey

- **New Jersey Transit Passenger Information Display (PID) Android Based Field Inventory**

Caitlin E. Powers, Michael Baker Jr., Inc.

- **Using LiDAR with ArcGIS 10.1**

Patrick Gahagan, Esri

### Spatial Analysis and Tools

Room: Grand I, Level 3

Theme: Planning

The location of any person, place, or thing can tell us a lot when analyzed against other geographic data. Spatial Analysis allows us to see the relationships and patterns of data. Come learn about how spatial analysis can help you learn more about area, how to focus attentions, allocate resources, and most importantly make fully informed decisions.

Moderator: Jennifer Rovito, Rutgers University

- **Redistricting – More than Maps**

Richard Rehmann, Civil Solutions, a division of ARH

- **AHTD's LRS Crash Tool and Crash Event Analysis**

Bruce Aquila, Intergraph Corporation

- **Using GIS to Analyze Compliance of Bus Stop Shelters throughout New Jersey**

Glenn Locke, PMP, GISP, Michael Baker Jr.,

### Legalities of Boundaries

Room: Biscayne C, Level 4

Theme: Surveyor

The use of political boundaries for creating GIS data is common-place but do you know how boundaries are established? This session will detail the various legal requirements of boundaries and how to determine their correct position. This session provides an essential primer on boundaries.

Moderator: Dawn McCall, GISP, Princeton University

- **What is a legal boundary and how is it different from a GIS parcel?**

Richard F. Smith, Jr. PLS, Richard F. Smith Jr.

- **The anatomy of a municipal boundary**

Mike McGurl, CME Associates

- **The anatomy of a state boundary**

Richard F. Smith, Jr. PLS, Richard F. Smith Jr.



## Records, Maintenance, and Workflows

Room: Biscayne A, Level 4

Theme: Parcels

Tax Mapping and related record keeping issues can be complex for many and there is always room for improvement. This session will clearly show how GIS technology has been incorporated into a management workflow to increase functionality, improve efficiency, and generate new revenue streams.

Moderator: Merrilee Torres, GISP, Burlington County Dept. of Information Technology

- **Maintenance and Reproduction of Tax Maps using GIS**  
Stephen Eckhardt, Civil Solutions, a division of ARH
- **Land Record Integration with GIS/CAMA**  
F. Peirce Eichelberger, gDBMS, Inc. (60 minute session)

**WEDNESDAY 10:30AM - 11:00AM**

## Coffee Break

Room: Exhibit Hall

Come and enjoy a refreshment break in the exhibit hall.

**WEDNESDAY 11:00AM - 12:30PM**

## Ask the Experts: Digital Tax Mapping Panel

Room: Grand III, Level 3

Theme: Parcels

Do you have a burning question or concern on Digital Tax Mapping or a desire to learn as much as possible about this critical framework data layer? This session consists of a panel of Digital Tax Mapping experts who will be discussing various tax mapping subjects as well as answers to your technical questions.

Moderator: Dawn McCall, GISP, Princeton University

Ask the Experts: Digital Tax Mapping Panel:

- Lewis H. Conley, Jr., PLS & PP, Van Note-Harvey Associates, pc
- Donald E. Walby, PLS, PP, KS Engineers, P.C.
- David B. Dixon, PLS, Omland Engineering Associates, Inc.
- Andrew T. Rowan, Office of Information Technology, State of New Jersey

## Public Safety GIS Implementation

Room: Grand I, Level 3

Theme: Public Safety

During a public safety or emergency management event, GIS data and spatial tools are invaluable. Two presentations in this session take a state agency perspective regarding available data and geospatial tools. The other details a nationwide program that provides assistance and information using a centralized GIS for public safety officials. Together this session provides a complete view of the intricacies of GIS in Emergency Management.

Moderator: Kathryn McSorley, GISP, Bergen County Health Services

- **24 Record Setting Months for Emergency Management**  
Tom Rafferty, New Jersey Office of Emergency Management
- **Homeland Infrastructure Foundation Level Data (HIFLD) to the Regions (HTTR)**  
Jason Barnett, Booz Allen Hamilton
- **Integrating Building Floor Plans and Pre-plans: A GIS Mapping Tool for Emergency Officials of the Meadowlands District of New Jersey**  
Stephanie Bosits, Meadowlands Environmental Research Institute

## Data Integration and Projects

Room: Biscayne C, Level 4

Theme: Surveyor

GIS information is everywhere in today's society and used for decision making in many organizations. However, GIS information that is not kept current will be problematic. This session will focus on the implementation of GIS information and initiatives to keep this information current.

Moderator: John Bocchino, GISP, NJ Dept. of Environmental Protection

- **FAA airport GIS initiative / GPS Smart Navigation**  
Steven T. Welebny, C.P., Keystone Aerial Surveys, Inc.
- **Best Practices in Digital File Management for Professional Land Surveyors (PLS)**  
John Bocchino, New Jersey Department of Environmental Protection
- **Weird New Jersey: Updating the Federal Geographic Names Information System (GNIS)**  
Seth Hackman, New Jersey Department of Environmental Protection

## GIS Solutions

Room: Hatteras 1, Level 4

Theme: Solutions

Learn about some of the latest GIS solutions to hit the street. These presentations provide details on the creation of a new and more accurate roads layer for New Jersey, the benefits of the ArcGIS for Local Government suite of free maps and apps, and the use of a server-based approach to implementing complex geospatial workflows across the enterprise. This moderated session will help you bring your GIS up to speed!

Moderator: Jennifer Angell, CDM Smith

- **New Jersey Roadway Centerline Enhancement**  
Tom Tiner, Michael Baker Jr., Inc.
- **ArcGIS for Local Government**  
James Higgins, Esri
- **Enabling Enterprise Geospatial Workflows**  
Bruce Aquila, Intergraph Corporation

WEDNESDAY 2:00PM - 4:00PM

## New Jersey Geospatial Forum Fall Quarterly Meeting

Room: Grand III, Level 3

The New Jersey Geospatial Forum (NJGF) is an open organization, encouraging the participation of any individual interested in New Jersey's geospatial industry. Membership in the NJGF is open to anyone in the state who shares a common interest in geographic information and technology.



Bill Dollins from Zekiah Technologies will address the forum regarding "disruptive technologies;" how cloud computing and open source software will shape the next few years of GIS development.

Open to the public.

WEDNESDAY 12:30PM - 1:30PM

## Buffet Lunch

Room: Exhibit Hall

All registrants are invited to partake of a buffet luncheon in the Exhibit Hall. This is a great opportunity to network with your peers as well as visit with the exhibitors.

We would like to thank all those who contributed their time and energy to making MAC URISA 2012 a success. We invite you to take an active role in our organization by volunteering in our educational programs throughout the year. Contact a board member to find out how!

## ArcGIS and EME

This presentation gives an overview of some of the capabilities of US EPA's Metadata Editor, known as EME. The tool supports the federal Content Standard for Digital Geospatial Metadata (CSDGM), and operates as an extension to ArcGIS or as a stand-alone product. Changes in ArcGIS 10.0 introduced some issues with the way NJ DEP staff access and create metadata. To address this, NJ DEP has been coordinating with EPA in the customization and use EME. The application has been useful for ArcGIS 10 users at DEP for managing metadata during the transition to ArcGIS 9.3 to version 10.

John Bocchino  
john.bocchino@dep.state.nj.us  
New Jersey Department of Environmental Protection  
PO Box 420  
Trenton, NJ 08625  
609-633-1203

## Beginning with Model Builder

If you haven't used it yet, start developing geoprocessing tools with Model Builder in ArcGIS. New Model Builder tools available allow for custom and batch geoprocessing that can streamline workflows for your organization and partners. We will demonstrate the use of Model Builder and some of the techniques to develop and deliver custom geoprocessing tools

Matthew Duffy, GISP  
duffy\_matthew@aclink.org  
Atlantic County Department of Regional Planning & Development  
P.O. Box 719  
Rt. 9 & Dolphin Avenue  
Northfield, NJ 08225  
609-645-5898

## Creating a Mapbook Using ArcPy & ReportLab

With the release of Arc 10, ESRI has allowed for the use of Python in almost all of its capabilities; whether geoprocessing, data analysis or map automation. One of these capabilities now fully supported by ESRI in a Python environment, is the use of their data driven pages feature. Data Driven Pages allows one to batch process and create a series of layout pages (maps) from a single map document with an index grid.

This presentation would demonstrate the use of ESRI's ArcPy python site-package and ReportLab (a free 3rd party open source python toolkit for PDF design) in building customized mapbooks with detailed index pages. The demonstration would follow through the steps in creating a roads mapbook and creating a customized roads index for a mapbook.

Chris Klaube  
cklaube@co.monmouth.nj.us  
Monmouth County - Public Works & Engineering  
250 Center Street  
Freehold, NJ 07728  
732-683-8758

## DEPEXplorer: Customizing ArcGIS Explorer for Light GIS Users

The NJDEP Bureau of GIS has customized ESRI's ArcGIS Explorer in order to provide a user-friendly GIS viewer for DEP staff. This customized version has been dubbed "DEPEXplorer Desktop." The application had been modified to enable easy access to DEP's enterprise geodatabase and offers a limited set of useful tools, including, Bird's Eye View (Bing), Street Viewer, Nearest Address (Google), Feature Labeler, and Buffer. DEPEXplorer complements the Department's other GIS applications, from desktop GIS to internet map services, but does not require use of an ArcGIS license. A key feature of Esri's ArcGIS Explorer is it allows the user to load local or external data in various formats in addition to pulling data in from GIS web services. The application has proven to be especially useful in helping non-GIS experts load and analyze their own data. The application has been used in a number of situations, including identifying the source of contaminated storm water runoff, and for developing emergency response facility inventories.

John Fleming and Dnyanada Bhide  
john.fleming@dep.state.nj.us  
dnyanada.bhide@dep.state.nj.us  
New Jersey Department of Environmental Protection  
PO Box 420  
Trenton, NJ 08625  
609-633-1203

## Downtown DC BID Data Collection and Asset Management Smartphone

Downtown DC BID (Business Improvement District) contracted the JMT Technology Group to develop a Cloud Hosted solution for field data collection and asset management. The field devices run Apple's iOS operating system (iPhone, iPad) and take full advantage of the built in functionality (GPS, Camera, network, e-mail, etc.). The developed solution allows editors in the office to QC all field collected data prior to it going live into the rest of the system. The solution also allows the in-office editors to push service requests to the DC 311 work order management system. Finally, the solution generates reports and graphics highlighting work accomplished during a user specified timeframe (Week, Month, year, etc.). The solution is based on Esri's ArcGIS technology utilizing: ArcGIS desktop to manage and administer, PostgreSQL ArcSDE to store the data, and ArcGIS Server to serve the maps and apps from the Amazon EC2 Cloud.

Bob Pliszka  
bpliszka@jmt.com  
JMT Technology Group  
161 Hampshire Drive  
Sellersville, PA 18960  
267-354-1365



## Getting Started with GIS on Smartphones and Tablets

This presentation will focus on the requirements and workflow for getting started with the ArcGIS for Android and ArcGIS for iOS. Topics will include data hosting options, using ArcGIS online as a portal, and capabilities of the apps themselves.

Christopher McClain  
cmclain@brickmua.com  
Brick Township MUA  
1551 Highway 88  
West Brick, NJ 08724  
732-458-7000

## Mobile GIS Options From Laptops to Smartphones

A look at some of the Mobile GIS options available to users to day. With a focus on the requirements, workflows, and capabilities. Plus a review of pros and cons related to different deployment platforms including Laptops, Tablets, handheld computers, and Smartphones.

Christopher McClain  
cmclain@brickmua.com  
Brick Township MUA  
1551 Highway 88  
West Brick, NJ 08724  
732-458-7000

## What's New in NJ-GeoWeb 2.0

NJ-GeoWeb 2.0 is NJDEP's latest update to its flagship web-based interactive mapping application. In this Techspo forum presentation, several new profiles, designed to support NJDEP programs and initiatives and directed to target user communities, will also be shown. Examples of how users can access GIS and NJDEP enterprise data through several program profiles via NJ-GeoWeb tools, searches, and integrated reports will also be demonstrated.

Lou Jacoby  
lou.jacoby@dep.state.nj.us  
New Jersey Department of Environmental Protection  
PO Box 420  
Trenton, NJ 08625  
609-633-1203

## What's New with Imagery at ArcGIS 10.1

ArcGIS continues to advance as a platform for the management, delivery and analysis of raster data across the enterprise. At the ArcGIS 10.1 release, Esri has made a significant investment in enhancing our capabilities that will allow organizations to maximize their imagery investments – this quick talk will cover the highlights and show you what's possible.

Seth Van Aken  
svanaken@esri.com  
Esri  
1325 Morris Drive  
Suite 201  
Chesterbrook, PA 19087  
610-644-3374

## **American Planning Association – NJ Chapter**

P.O. Box 813  
New Brunswick, NJ 08903  
848-932-2817  
<http://njplanning.org>  
Sheena Collum  
[scollum@njplanning.org](mailto:scollum@njplanning.org)

## **Applied Imagery**

8070 Georgial Ave  
Silver Springs, MD 20910  
301-589-4047  
[www.appliedimagery.com](http://www.appliedimagery.com)  
Mike Umansky / Chris Parker  
[mumansky@appliedimagery.com](mailto:mumansky@appliedimagery.com)

## **Axis Geospatial**

101 Bay Street  
Easton, MD 21601  
410.822.1441 ext. 108  
[www.axisgeospatial.com](http://www.axisgeospatial.com)  
Erica Insley  
[einsley@axisgeospatial.com](mailto:einsley@axisgeospatial.com)

## **BAE Systems ADR**

124 Gaither Dr  
Mt.Laurel, NJ 08054  
856-866-9700  
[www.adr.na.baesystems.com](http://www.adr.na.baesystems.com)  
Andy Pickford  
[andrew.pickford@baesystems.com](mailto:andrew.pickford@baesystems.com)

## **Civil Solutions, a Division of ARH**

850 S. White Horse Pk.  
Hammonton, NJ 08037  
800-924-0482  
[www.civilsolutions.biz](http://www.civilsolutions.biz)  
Richard Rehmann  
[rrehm@arh-us.com](mailto:rrehm@arh-us.com)

## **Esri**

Chesterbrook Corporate Center  
1325 Morris Drive, Suite 201  
Chesterbrook, PA 19087-5521  
610-644-3374 • Fax: 610-644-3379  
[www.esri.com](http://www.esri.com)  
Jim Higgins  
[jhiggins@esri.com](mailto:jhiggins@esri.com)

## **Intergraph**

51 Vicar Lane  
Levittown, PA 19054  
215-949-9626  
[www.intergraph.com](http://www.intergraph.com)  
Tom Godish  
[tom.godish@intergraph.com](mailto:tom.godish@intergraph.com)  
Sarah Stewart  
[sarah.stewart@intergraph.com](mailto:sarah.stewart@intergraph.com)

## **JMT Technology Group**

161 Hampshire Drive  
Sellersville, PA 18960  
267-354-1365  
[www.jmttg.com](http://www.jmttg.com)  
Bob Pliszka  
[bpliszka@jmt.com](mailto:bpliszka@jmt.com)

## **Keystone Precision Instruments**

2646 Lehigh St  
Whitehall, PA 18052  
610-266-2699  
[www.keypre.com](http://www.keypre.com)  
George Allport, Jr.  
[georgejr@keypre.com](mailto:georgejr@keypre.com)

## **MAPCO**

1443 Union Valley Road  
West Milford, NJ 07480  
973-728-5767  
[www.mapco-inc.com](http://www.mapco-inc.com)  
Mike Popoloski  
[mpop@mapco-inc.com](mailto:mpop@mapco-inc.com)

## **Michael Baker, Jr., Inc.**

American Metro Boulevard  
Hamilton, NJ 08619  
609-807-9575  
[www.mbakercorp.com](http://www.mbakercorp.com)  
Kirk Weaver  
[kweaver@mbakercorp.com](mailto:kweaver@mbakercorp.com)  
Tom Tiner  
[ttiner@mbakercorp.com](mailto:ttiner@mbakercorp.com)

## **NJ Association of Floodplain Managers**

P.O. Box 1326  
Trenton, New Jersey 08607  
<http://www.njafm.org/>

## **New Jersey Society of Professional Land Surveyors (NJSPLS)**

P.O. Box 101  
Cream Ridge, NJ 08574  
[www.njspls.org](http://www.njspls.org)  
J. Peter Borbas, PLS  
[peter.borbas@borbas.com](mailto:peter.borbas@borbas.com)

## **Océ North America**

231 St. Asaphs Road  
Bala Cynwyd, PA 19004  
610-617-2184  
[www.oceusa.com](http://www.oceusa.com)  
Harry Zimmerman  
[harry.zimmerman@oce.com](mailto:harry.zimmerman@oce.com)

## **Pictometry International**

Manahawkin, NJ 08050  
609-978-7050  
[www.pictometry.com](http://www.pictometry.com)  
Alexander Hepp  
[alex.hepp@pictometry.com](mailto:alex.hepp@pictometry.com)

## **Spatial Data Logic**

2 Executive Drive, Suite 200  
Somerset, NJ 08873  
732-357-1280  
<http://www.spatialdatalogic.com/>  
John Flood  
[Info@SpatialDataLogic.com](mailto:Info@SpatialDataLogic.com)

## **US Census Bureau - New York Regional Office**

395 Hudson St, Suite 800  
New York, NY 10014  
212-584-3400  
[www.census.gov](http://www.census.gov)  
David Kraiker  
[david.j.kraiker@census.gov](mailto:david.j.kraiker@census.gov)

## **US Geological Survey**

Reston, VA  
703-648-5189  
[www.usgs.gov](http://www.usgs.gov)  
Roger Barlow  
[rbarlow@usgs.gov](mailto:rbarlow@usgs.gov)

## **Burlington County College**

Marc Zamkotowicz  
[mzamkoto@bcc.edu](mailto:mzamkoto@bcc.edu)

## **Penn State University**

Beth King  
[bethking@psu.edu](mailto:bethking@psu.edu)

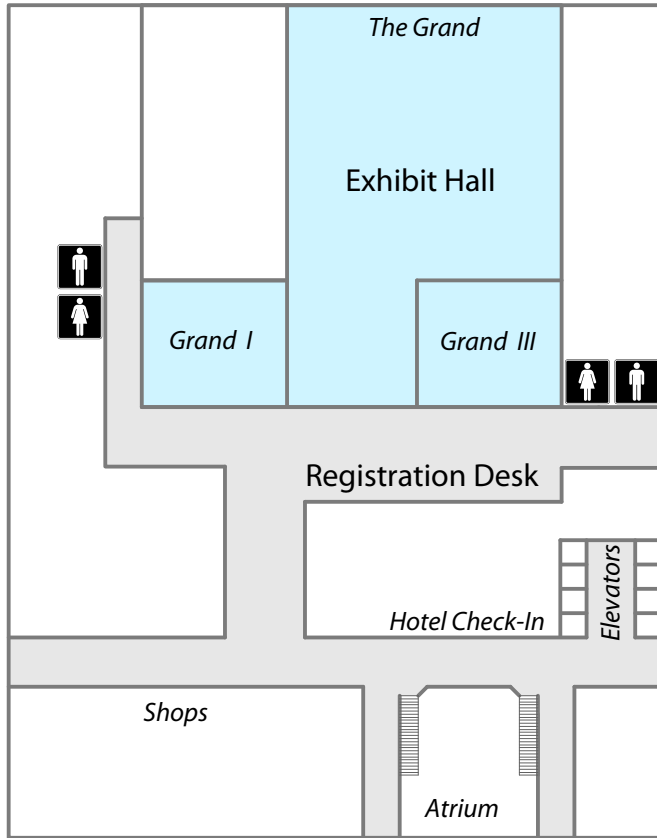
## **Rowan University**

John Reiser  
[Reiser@rowan.edu](mailto:Reiser@rowan.edu)

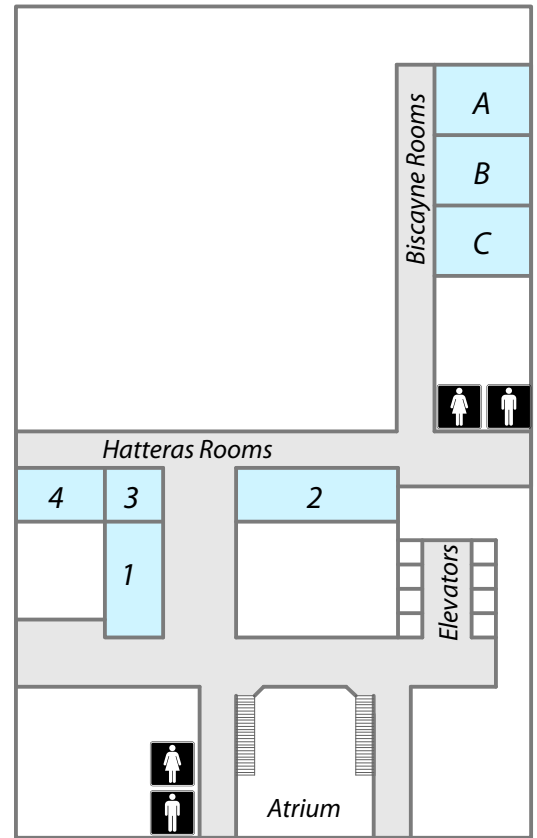
## **Rutgers University**

Jennifer Rovito  
[jrovito@ejb.rutgers.edu](mailto:jrovito@ejb.rutgers.edu)

## Level 3



## Level 4



Mid Atlantic Chapter of the  
Urban and Regional Information Systems Association  
Post Office Box 22233 Trenton, New Jersey 08607

Check [www.macurisa.org](http://www.macurisa.org) for information on upcoming events