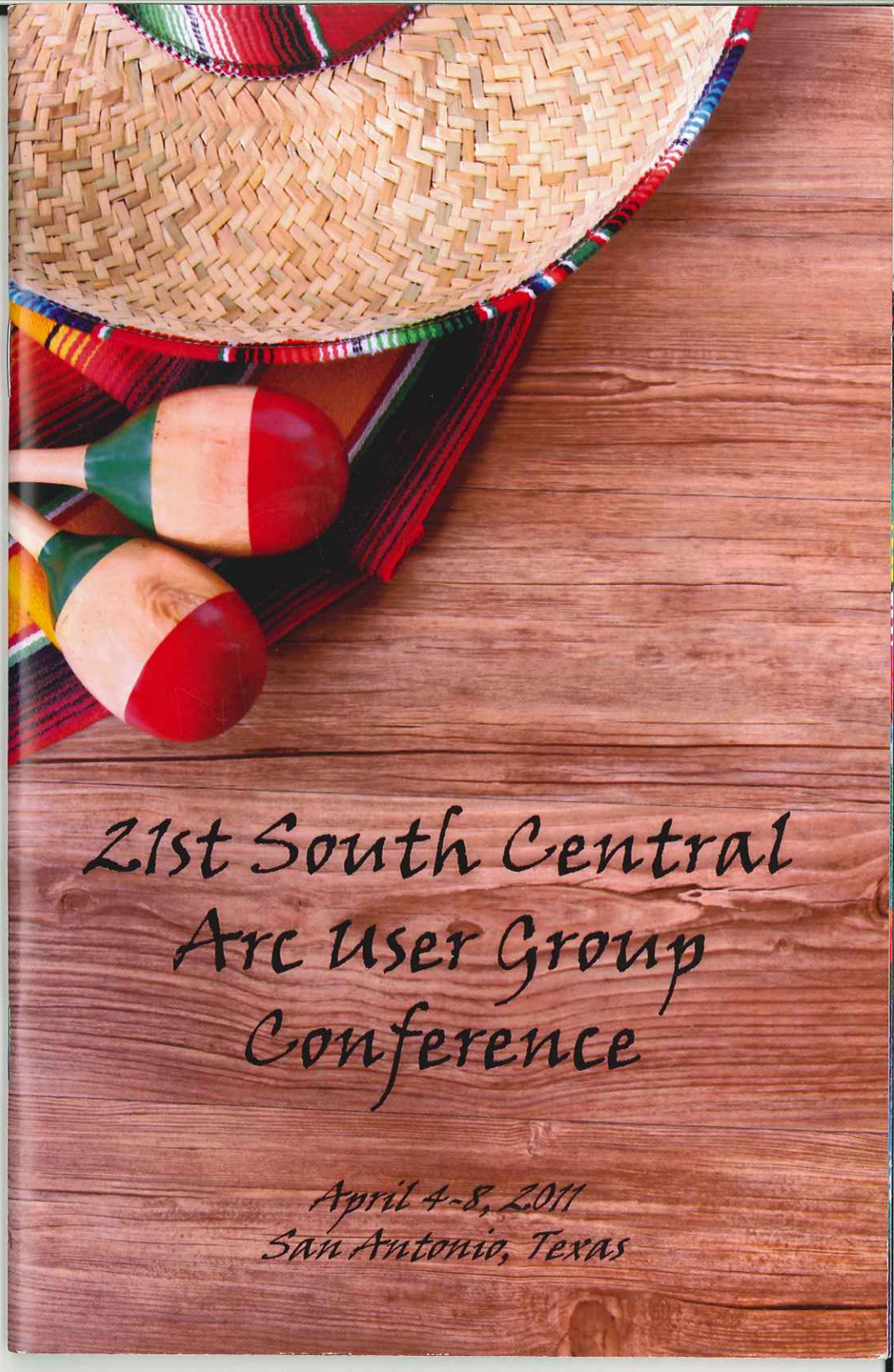
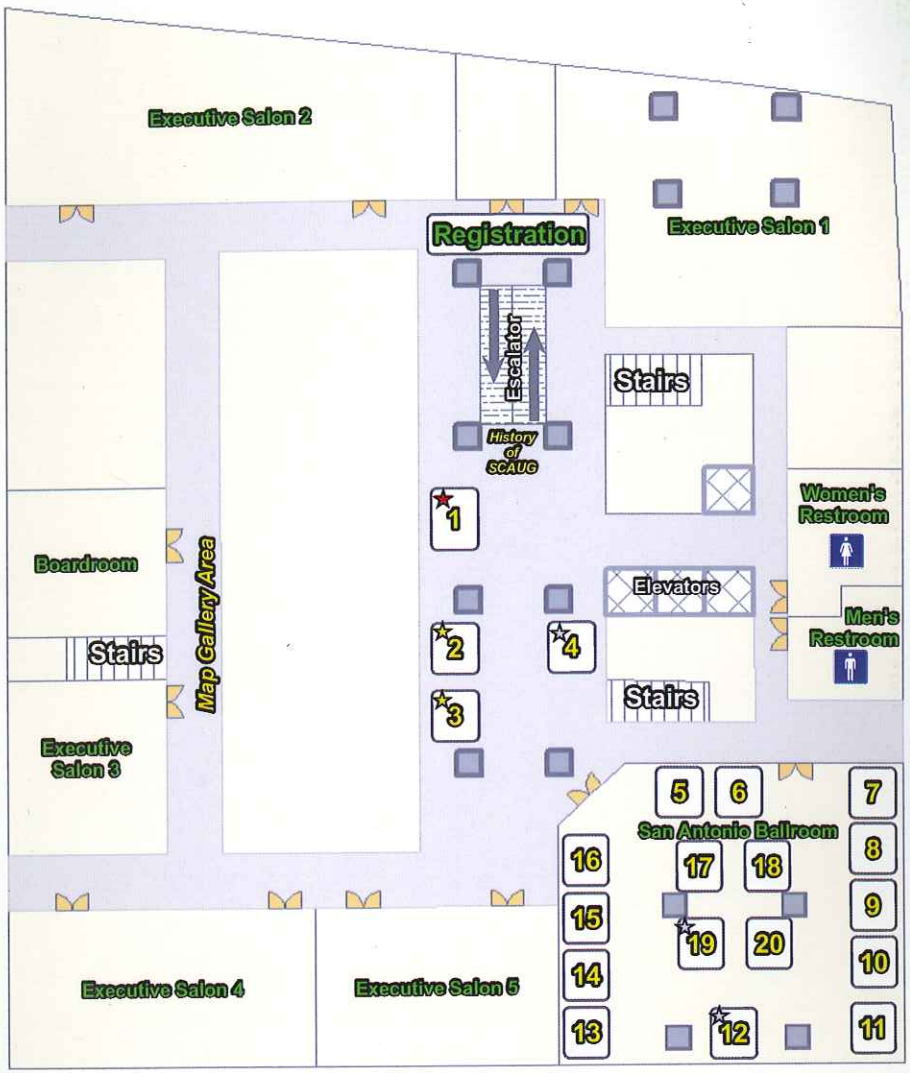


21st South Central Arc User Group Conference

April 4-8, 2011
San Antonio, Texas

Third Floor Conference Center Layout



Lone Star Room located on 1st floor across from Hotel Registration

1. Western Data Systems★
2. ATKINS (PBS&J)☆
3. Teach Me GIS☆
4. Surdex☆
5. Pinnacle Mapping
6. Freese & Nichols, Inc
7. Pictometry International
8. Pape-Dawson Engineering
9. ERDAS
10. Cityworks
11. NTB
12. ESRI☆
13. CDM
14. Contact One
15. Razortek
16. Geocortex - Latitude Geographics
17. Applied Field Data Systems, Inc
18. USGS
19. NAVTEQ☆
20. Stewart Geo Technologies

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Please take a moment to thank the vendors for their interest & contributions to SCAUG over the years.

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Kristi W. Teyki, URS Corporation

ESRI Representative
Stacia Canaday

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2011 GISP Credit Checklist

Special thanks to the following agencies for allowing their employees to volunteer their time and to serve on the SCAUG Board.

City of New Braunfels
Oklahoma Conservation Commission
City of Plano
Chesapeake Midstream
City of Longview
City of Fort Worth
CPS Energy
NTB Associates, Inc.
Mendrop-Wages, LLC.
City of Ardmore
Tarrant County
URS Corporation

From the President

Dear Colleagues,

It is a great pleasure that we welcome you to the 21th Annual South Central Arc User Group (SCAUG) conference in San Antonio, Texas and what I hope will be an exciting and inspiring three days of discussions about something important to all of us – Geographic Information Systems (GIS).

I am pleased that SCAUG can play a part in gathering together the best and brightest with an interest in GIS from government, business, the private sector and academia. As the one of the largest gathering of geospatial professionals in the South Central United States, you will find this GIS conference to be an excellent opportunity to increase visibility and exposure within the geospatial community of Louisiana, Mississippi, Oklahoma and Texas. Having a presence at the conference guarantees your place as an important leader in geospatial technologies and provides a forum to communicate with a targeted audience of professionals.

2011 will be a very good year for GIS. How do I know? When I look back at the many individuals, organizations and accomplishments across SCAUG regions I am impressed by what all of you have done with limited budgets and reduced staffing. I am thinking that harnessing this ability to do more with less to an economy that looks to be in the beginning stages of a recovery will yield an environment for high productivity. As GIS professionals we need to share and use our knowledge of GIS to further enhance and enrich our geospatial programs and projects to provide more value in less time. Leveraging the tools and techniques presented at this conference will surely help in that endeavor.

Learning about GIS is only a fraction of what makes SCAUG conference so special. The SCAUG approach is one that emphasizes a community and a spirit of collaboration. If you need any assistance, feel free to reach out to me or any board member who will be glad to assist. Please take the time to share your comments and concerns so we can continue to develop the conference program to fulfill your expectations.

Thank you for participating in scheduled presentations, workshops and events this week. Enjoy your time here.

Sincerely,

Joe R. Chapa

2011 CONFERENCE at a GLANCE

MONDAY, APRIL 4th

8:30am to 5:00pm	Creating Effective Web Applications Using ArcGIS Server	Executive Salon 1
8:30am to 5:00pm	What's New in ArcGIS Desktop 10	Executive Salon 4
8:30am to 5:00pm	Introduction to ModelBuilder	Executive Salon 3

TUESDAY, APRIL 5th

8:30am to 5:00pm	Creating Effective Web Applications Using ArcGIS Server	Executive Salon 1
8:30am to 5:00pm	What's New in ArcGIS Desktop 10	Executive Salon 4
8:30am to 5:00pm	Introduction to ArcPad 10	Executive Salon 3
5:00am to 8:00pm	Meet & Greet Reception	River Terrace

WEDNESDAY, APRIL 6th

8:00am to 10:30am	Opening Breakfast	San Antonio Ballroom
10:30am to 11:30am	ESRI Plenary Session	San Antonio Ballroom
11:30am to 1:30pm	Lunch on Your Own	
11:30am to 1:00pm	New Officer Lunch	Hotel Restaurant
1:30pm to 2:30pm	ESRI Technical Session I	3rd Floor
2:45pm to 3:45pm	ESRI Technical Session II	3rd Floor
4:00pm to 5:00pm	ESRI Technical Session III	3rd Floor
5:00pm to 7:00pm	Vendor Hall Setup	San Antonio Ballroom
6:00pm to 7:30pm	NTB Associates, Inc. Social	Mexican Manhattan

THURSDAY, APRIL 7th

6:00am to 8:00am	Vendor Hall Setup	San Antonio Ballroom
8:00am to 10:00am	Vendor Continental Breakfast	San Antonio Ballroom
8:00am to 6:00pm	Vendor Hall	San Antonio Ballroom
8:00am to 3:00pm	Map Gallery	3rd Floor
8:30am to 9:30am	Session Track I	3rd Floor
9:30am to 10:30am	Vendor Visit Time	San Antonio Ballroom
10:30am to 11:30am	Session Track II	3rd Floor
11:30am to 1:30pm	Vendor Visit Time & Lunch On Your Own	San Antonio Ballroom
1:30pm to 2:30pm	Session Track III	3rd Floor
2:30pm to 3:30pm	Vendor Visit Time	San Antonio Ballroom
3:30pm to 4:30pm	Session Track IV	3rd Floor
4:30pm to 6:00pm	Vendor Social & Map Gallery Awards	San Antonio Ballroom
6:00pm to 10:00pm	Thursday Night Social	La Gloria

FRIDAY, APRIL 8th

8:00am to 12:00pm	ArcGIS 10 & Imagery Workshop ($25)	Executive Salon 3
8:00am to 12:00pm	Building & Deploying Add-Ins for ArcGIS Desktop Workshop ($25)	Executive Salon 5
10:00am to 12:00pm	Alamo Area GIS User Group Meeting	Executive Salon 2
10:00am to 12:00pm	Rio Grande Valley Arc User Group Meet.	Executive Salon 1

EVENTS SUMMARY

Tuesday, April 5th

Meet & Greet Reception **5:00pm to 8:00pm**

Start your conference week in San Antonio style along side the Museum Reach of the World Famous Riverwalk. Catch up with old and meet the new on the Crowne Plaza River Terrace while indulging in a margarita and building your own taco or nachos.

Wednesday, April 6th

Opening Breakfast & ESRI Plenary **8:00am to 11:30pm**
Sponsored by our Platinum Sponsor - Western Data Systems

Join everyone for breakfast in the San Antonio Ballroom while covering the annual SCAUG business items: Founders and Thumbs Up Awards, SCAUG Scholarship Awards, announcement of 2011 SCAUG Officers and 2012 conference details, and 2011 conference materials. The ESRI Plenary will be hosted by Adam Pittman going over the latest ESRI technology.

NTB Associates, Inc. Social **6:00pm to 7:30pm**

Come join the Fiesta at the NTB Associates, Inc. social at Mexican Manhattan on the Riverwalk (110 Soledad Street). Just head south on Soledad, which is on the west side of the Crowne Plaza. Go two blocks, and it will be just past Houston on the left.

Thursday, April 7th

Vendor Hall **8:00am to 6:00pm**

Start your morning with coffee and pastries while perusing the Vendor Hall. The conference schedule has special Vendor Visit Times throughout the day to accommodate more one-on-one time to see the innovative technologies and solutions our vendors have to offer. Be sure to hit up vendors for their drink tokens to be used during the Vendor Social.

Map Gallery **8:00am to 3:00pm**

Your colleagues have taken research and analysis and put it on the map! The Map Gallery provides a visual sense of the power of geospatial technology. Between sessions walk through the Map Gallery to see many of our colleagues' projects. Don't forget to cast your ballot for the Map Gallery no later than 3:00pm.

Vendor Social & Map Gallery Awards **4:30pm to 6:00pm**
Sponsored by our Gold Sponsors - Atkins & Teach Me GIS

Close the conference by enjoying some drinks and a light snack over vendor conversation. Be sure to cash in all your drink tokens! Map Gallery winners will be announced around 5:00pm.

Thursday Night Social **6:00pm to 10:00pm**
Bring an appetite and a thirst to La Gloria (100 East Grayson) in the historic Pearl Brewery area. Immediately following the Vendor Social at 6:00pm Alamo Trolleys will be outside the Crowne Plaza ready to shuttle everyone to La Gloria. Family style food and beverage service will be from 7pm to 9pm out on the patio, and the bill is on SCAUG. The Alamo Trolley will start shuttling people back to the Crowne Plaza at 9pm so you can take advantage of your last night on the RIVERWALK!

Menu:

Totopos and Salsa (chips and salsa) - Traditional tortilla chips served with green and red salsas

Tacos de Bistec - Mexico's culinary favorite, diced grilled beef topped with onions and cilantro

Tacos Al Pastor - Thin slices of marinated pork that have been spit roasted and served with pineapple, onions and cilantro

Quesadilla de Queso - Fresh corn tortillas filled with Queso Oaxaca

Dorados de Pollo en Salsa Verde - Crispy chicken tacos with tomatillo salsa garnished with queso fresco and crema

Tostada de Pollo en Escabeche - A crispy corn tortilla topped with shredded chicken in savory Mexican spices

Agua Fresca - Choose from our daily offerings of freshly made agua frescas

Friday, April 8th

Building and Deploying Add-Ins for ArcGIS Desktop – $25 (20 seats) **8:00am to 12:00pm**

New with ArcGIS 10, desktop add-ins provide an easier means for building and sharing customizations that extend desktop applications. The add-in programming model provides developers with a declaration-based framework for creating a collection of customizations conveniently packaged within a single compressed file. Add-ins are easily shared between users and don't require installation programs or COM registration. Add-ins can also be made available over network shares, making it easier to synchronize updates within an organization. Find out about add-ins from the .NET developer's perspective and discuss coding patterns, distribution options, and debugging.

ArcGIS 10 & Imagery - $25 (20 seats) **8:00am to 12:00pm**

ArcGIS 10 introduces improved access to imagery for all desktop users. This technical session will cover in depth discussion and demonstration of enhanced imagery capabilities such as:

- Better tools for managing imagery on the desktop and server
- Faster performance with accelerated image display
- The new Image Analysis Window in ArcMap
- Dynamic mosaicking and on-the-fly processing
- Serving dynamic image mosaics

Alamo Area GIS Meeting **10:00am to 12:00pm**

The Alamo Area GIS (AAGIS) is committed to advancing the Geographic Information System (GIS) profession and other geo-technology through varied activities such as exchanging knowledge, promoting academic studies of GIS, as well as providing training and services to it's members and the general public. The Alamo Area GIS (AAGIS) first Special Interest Group meeting will:

- Cover first years events
- Discuss AAGIS Business
- Review Survey Results
- Discuss future programs
- Hold Roundtable Group discussions
- Announce Election Results

Rio Grande Valley Arc User Group (RGVAUG) **10:00am to 12:00pm**

The Rio Grande Valley Arc User Group (RGVAUG) is committed to advancing the Geographic Information System (GIS) profession through varied activities such as exchanging knowledge, promoting academic studies of GIS, as well as providing training and services to it's members and the general public. Our membership spans from Webb County down through Cameron County.

The topics to be discussed at the meeting include:
- New RGVAUG Officers - Election Results
- SCAUG 2012 in McAllen, TX
- Discussion of the first Fundraiser of 2011

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ESRI TECHNICAL SESSIONS

Wednesday, April 6th

Session Track I – 1:30pm to 2:30pm

Python in ArcGIS 10 – An Introduction
Ken Smith — Executive Salon 1

Creating Web Mapping Applications with ArcGIS
Karen Lizcano — Executive Salon 4

Special Session Track – 1:30pm to 5:00pm

Commercial Special Interest Group (SIG): Solve Problems and Improve Operations
Linda Peters, Dennis Kaplan and Betsy Leal — Lone Star Room

Session Track II – 2:45pm to 3:45pm

Editing in ArcGIS 10
Brig Bowles — Executive Salon 1

Using Cartographic Representations
David Allen, City of Euless — Executive Salon 3

10 Things to Know About Managing a GIS Project
Daniel Stone — Executive Salon 4

Session Track III – 4:00pm to 5:00pm

Image Management and Dissemination
Brig Bowles — Executive Salon 1

What's New in ModelBuilder for ArcGIS 10
David Allen, City of Euless — Executive Salon 3

ArcGIS Online and Community Basemaps
Karen Lizcano — Executive Salon 4

USER PRESENTATIONS

Thursday, April 7th

Session Track I – 8:30am to 9:30am

Army Mapper
Pamela Colby — Executive Salon 1

Oblique Imagery in Use with GIS Applications
Kevin Beers — Executive Salon 3

The National Map: US Topo Maps
Claire DeVaughan — Executive Salon 3

Work Flow and Lessons Learned Implementing 9-1-1 Wireless Phase 2 in Two Counties, and How the Use of GIS Software was Critical for Certification and Ongoing Maintenance
Orlando Nino — Executive Salon 4

Leveraging Hydraulic Sewer Modeling and Pipe Condition Data for a Robust adn Sustainable GIS
Scott Kelly, Nelson Esquivel and Mazen Kawasmi — Executive Salon 5

Session Track II – 10:30am to 11:30am

Empowering GIS to Manage Public Works, Utilities, and Permitting
Jeremy White — Executive Salon 1

Sara and Pape-Dawson Perform a Network Analyst Analysis of Wilson County's Transportation System for Improvements for Emergencies and Evacuations
Jessica Hammons, Rell Fowler, Ralph Arias — Executive Salon 3

The GIS Role in Disaster Recovery
Andrew Clem — Executive Salon 3

Applicatiosn of Enhanced Riskmap Mapping Products
Joe Gilberg — Executive Salon 4

A Perspective on Ageing GIS Workforce
Ashok Wadwani — Executive Salon 5

Session Track III – 1:30pm to 2:30pm

Tarrant County's GIS Solutions
Travis Baker & Ramon Campos — Executive Salon 1

GIS Makes it's Way to the iPhone, iPad, and Android! Let the Fun Begin!
Tanya Hardison — Executive Salon 3

Using ArcMap to Generate KML Content for Consumption in Google Earth
Wes Keller — Executive Salon 3

Mapping Economic Sector Trends in Texas with GIS at the County Level 1997-2002
Charles Woodrow Ashton Jr. — Executive Salon 4

Mapping and Project Management
Joseph C. Molis — Executive Salon 5

Session Track IV – 3:30pm to 4:30pm

Using GIS in Disseminating Health Care Data
Sohail Hasanjee — Executive Salon 1

Using GIS as a Spatial Indez
Krystal Forgenie and Tanya Hardison — Executive Salon 3

The Update Game
Julie Teal — Executive Salon 4

SAVE THE DATE

SCAUG Mixer at ESRI User Conference
- SDCC Tuesday, July 12th 5:30pm – 7:00pm

OKSCAUG Conference
- October 25, 2012
- Moore-Norman Technology Center, Oklahoma City, OK

22th Anniversary South Central Arc User Group Conference
- March 26, 2012 – March 30, 2012
- Join us as SCAUG holds its first regional conference in a Convention Center
- Host Hotel is the Marriott Courtyard
- Conference Rate - $95 with Breakfast

ESRI TECHNICAL SESSION ABSTRACTS

Wednesday, April 6th

Session Track I – 1:30pm to 2:30pm

Python in ArcGIS 10 – An Introduction

Ken Smith, ESRI **Executive Salon 1**

The use of Python is vital for any ArcGIS professionals interested in furthering their automation and analysis skills. Python allows users to create custom data management or analysis tools ranging from single functions to complex multifunction processes with validation, which can easily be reused, shared, and even executed with little to no user interaction. This session will introduce the Python scripting language and show how it can be used to access and automate geoprocessing tools and functionality.

Creating Web Mapping Applications with ArcGIS

Karen Lizcano, ESRI **Executive Salon 4**

Are you interested in creating GIS Web applications but don't know where to start? Perhaps you've worked with ArcGIS Server and want to create Web applications but don't want to do programming. In both cases, this will be the session for you. You will be introduced to some general Web map design patters. You will also learn about the three new ready-to-deploy GIS Web application solutions available at ArcGIS 10: the ArcGIS.com Web map, ArcGIS Explorer Online and the ArcGIS Viewer for Flex. All three Web applications can be used without having to write any code. You will also be introduced to ArcGIS.com and learn to leverage some of its capabilities to support your business workflows.

Special Session Track – 1:30pm to 5:00pm

Commercial Special Interest Group (SIG): Solve Problems and Improve Operations

Linda Peters, Dennis Kaplan and Betsy Leal, ESRI **Lone Star Room**

This group is committed to fostering a community of commercial GIS users to identify trends and best practices, get return on investment examples, gain insight into ESRI product development and listening and responding to user feedback. You will network and collaborate with your peers, hear from Esri staff and see user presentations that will help you address issues and overcome challenges in your own organization. Anticipated topics include market optimization, best practices for building models, territory balancing and transportation management.

Session Track II – 2:45pm to 3:45pm

Editing in ArcGIS 10

Brig Bowles, ESRI **Executive Salon 1**

Join this session to learn how to maintain geographic data with ArcGIS. We will cover a wide range of workflows including professional GIS editing with ArcGIS Desktop as well as data collection in the field and data maintenance from Web browser-based applications. This introductory session will help you define a complete strategy for data maintenance within your organization by exploring the different technologies offered by ArcGIS.

Using Cartographic Representations

David Allen, City of Euless **Executive Salon 3**

In the GIS world, we only have points, lines and polygons to model any reality we come across. While this seems limiting, the addition of Cartographic Representations has made the task much easier. These new symbology sets allow us to make our maps have a rich, cartographically pleasing look and feel that was previously not available. In addition, we now have the capabilities of making the maps "look right" without sacrificing data accuracy. This session will explore how

to get started with Cartographic Representations, and how some of the advanced techniques will improve your own cartographic skills.

10 Things to Know About Managing a GIS Project

Daniel Stone, ESRI **Executive Salon 4**

Esri senior project managers will share best practices for managing GIS projects.

Session Track III – 4:00pm to 5:00pm

Image Management and Dissemination

Brig Bowles, ESRI **Executive Salon 1**

A new data model in ArcGIS 10, mosaic datasets, are optimized for the management and dissemination of large collections of imagery and rasters. This session will provide an overview of how mosaic datasets can be quickly created from different data sources, and then used to disseminate imagery directly to ArcGIS users in a workgroup or through ArcGIS Server to a wide range of desktop and Web applications. You will learn how to make imagery quickly accessible to your organization.

What's New in ModelBuilder for ArcGIS 10

David Allen, City of Euless **Executive Salon 3**

ModelBuilder is a programming tool that can be used in ArcGIS to develop a custom task or automate a workflow. In version 10, new tools are added to give ModelBuilder many more capabilities and make it closer to being a rich programming language than ever before. In this session we'll look at the new iterators, which function as loops; batch processing techniques for handling multiple inputs and outputs; and the new tools to incorporate Python scripts into your models, which makes ModelBuilder a great front-end for developing all your geoprocessing workflows.

ArcGIS Online and Community Basemaps

Karen Lizcano, ESRI **Executive Salon 4**

ArcGIS Online and the Community Basemaps Program provide a rapidly growing framework for online GIS. The presenter will show how ArcGIS.com can be used to discover, author, and share rich Web maps and mapping applications. You will learn how to create and use Web maps, how they are shared and how they are combined in custom apps. You will also see a preview of new capabilities planned for ArcGIS Online. The Community Basemaps Program provides a set of online maps that are being built by and for the ArcGIS user community. You'll learn what community basemaps are currently available, how they are being built and how they can be used in your online maps and apps. You'll learn why many ArcGIS users are already participating in the program and how you can participate going forward.

USER PRESENTATION ABSTRACTS

Thursday, April 7th

Session Track I – 8:30am to 9:30am

ARMY MAPPER

Pamela Colby, GISP,
US Army Installation Management Command **Executive Salon 1**

Army Mapper is the US Army's enterprise geographic information system (GIS) that has three main elements: Web Map Viewer - a web-based interactive mapping tool providing basic viewing and querying of common data for all integrated installations. Desktop Tools - commercial GIS and CADD software available through Citrix Data Repository. Secure and robust data architecture to support managed maintenance and archival of standardized installation data.

OBLIQUE IMAGERY IN USE WITH GIS APPLICATIONS

Kevin Beers, Pictometry International Corp. **Executive Salon 3**

Recent advances in technology have brought a new paradigm in how we can view the world through imagery. Geo-referenced oblique aerial imagery opens the door to many new uses for GIS data, which were not possible in the past with traditional "straight down" orthogonal imagery. This presentation will explore some of those uses, including 3D modeling, and also cover a technical overview on the capture process for this type of imagery. The presentation will also detail the recent integration of oblique imagery into ArcGIS and ArcGIS Server applications and a discuss the deployment of oblique imagery in Web based applications.

THE NATIONAL MAP: US TOPO MAPS

Claire DeVaughan, U.S. Geological Survey **Executive Salon 3**

US Topo is the next generation of topographic maps from the U.S. Geological Survey (USGS). Arranged in the traditional 7.5-minute quadrangle format, digital US Topo maps are designed to look and feel like the traditional paper topographic maps for which the USGS is so well known. At the same time, US Topo maps provide modern technical advantages that support wider and faster public distribution and enable basic, on-screen geographic analysis for all users. US Topo maps are available free on the Web. Each map quadrangle is constructed in GeoPDF® format from key layers of geographic data – orthoimagery, roads, geographic names, contours and hydrographic features - found in The National Map, which is a nationwide collection of integrated data from local, State, Federal, and other sources. In 2010, USGS completed statewide coverage of US Topo for Texas. Additionally, The National Map has introduced dramatically improved data viewing and download capabilities. This talk will describe these new products and demonstrate their capabilities.

WORK FLOW AND LESSONS LEARNED IMPLEMENTING 9-1-1 WIRELESS PHASE 2 IN TWO COUNTIES, AND HOW THE USE OF GIS SOFTWARE WAS CRITICAL FOR CERTIFICATION AND ONGOING MAINTENANCE

Orlando Nino, Lower Rio Grande Development
Council Mapping Department **Executive Salon 4**

Texas wireless cell phone services have seen changes and new requirements with the implementation of Wireless Phase II. One of the major efforts we have in our department to comply with WPHII is to issue correct 9-1-1 physical addresses to tower structures in our region. This is complicated by several carriers having equipment on the same tower and requiring unique addresses. Using GIS we maintain our regions MSAG, from this we are able to address these tower structures. When routing new towers sectors in our region the use of aerial photography is vital. If not for aerial photography and an accurate basemap the requirements and implementation of WPHII in our region would have been significantly delayed. This presentation will focus on the workflow using GIS Software and lessons learned from the continuing efforts on WPHII implementation in our region.

LEVERAGING HYDRAULIC SEWER MODELING AND PIPE CONDITION DATA FOR A ROBUST AND SUSTAINABLE GIS

Scott Kelly, City of Irving, Nelson Esquivel and Mazen
Kawasmi, P.E., Freese and Nichols **Executive Salon 5**

This paper is a case study for the City of Irving Wastewater Master Plan project where it describes a proactive approach utilizing GIS in developing a sustainable wastewater collection system capacity and renewal/rehabilitation capital improvement program with limited resources. The renewal program prioritized replacement infrastructure

using various performance parameters including work order history, pipe age, pipe material, capacity, and coordination with other infrastructure rehabilitation. The program also includes a data integration component which integrates various data sources, such as hydraulic models, GIS systems, and customer information systems. This integration of various data sources will provide a link to continue a robust and sustainable wastewater collection system capacity and renewal/rehabilitation program in the future.

Session Track II – 10:30am to 11:30am

EMPOWERING GIS TO MANAGE PUBLIC WORKS, UTILITIES, AND PERMITTING

Jeremy White, Azteca Systems, Inc. **Executive Salon 1**

This presentation will illustrate the benefits having of a GIS-Centric work order management system in public works, and utilities. It will also highlight how a GIS-Centric system can help to track permits, planning in development activities, engineering processes, business or regulatory licenses, and code enforcement cases on properties. The presentation addresses a city or county's need to leverage GIS to facilitate daily workflow within a department, or across many. It will address the ability for workers in the field to contribute to workflows that may be created in office. Will show, ArcGIS, Cityworks Desktop, Cityworks Server AMS and PLL.

SARA AND PAPE-DAWSON PERFORM A NETWORK ANALYST ANALYSIS OF WILSON COUNTIES TRANSPORTATION SYSTEM FOR IMPROVEMENTS FOR EMERGENCIES & EVACUATIONS

Jessica Hammons, EIT and Rell Fowler, GISP, Pape-Dawson Engineers, Inc, Ralph Arias, PE, San Antonio River Authority **Executive Salon 3**

As part of the San Antonio River Authorities Watershed Master Plan for Wilson County, a local concern was identified relating to flooding. The problem was during flooding periods, exit routes for numerous neighborhoods and subdivisions were blocked and alternate routes were few or non-existent. This required new roads and/or improvements, however there were too many locations to be addressed with the counties limited resources. Using ArcGIS Desktop's Network Analyst extension, a model of the flooding conditions with these blocked routes were identified to research the new roads or improvements that could lead to the most impact for the limited resources of the county.

THE GIS ROLE IN DISASTER RECOVERY

Andrew Clem, CDM **Executive Salon 3**

When disasters occur, they are both unplanned and have dramatic regional effects; economic, financial, human lives, and infrastructure. Aside from the immediate ramifications of a disaster, the effects on the future are numerous as well. Recovery efforts in a region can last many years as infrastructure is renewed, economies rekindle, and lives are restored. Hurricane Ike hit Texas in 2008 and left a wide path of damage. Many communities and residents of southeast Texas were left with their homes ruined or severely damaged. GIS was used throughout the recovery effort, defining its role both in the planning stages and throughout the recovery effort. The Harris County Homeowner Disaster Recovery Program (HCHDRP) was initiated to assist homeowner recover from damage due to Hurricane Ike. An immense amount of geographic information was needed to carry out all of the program components, so HCHDRP leveraged the benefits of GIS to assist in the recovery effort. GIS was initially used to spatially locate and verify applicants, but the real power of GIS was used to help perform environmental analysis. Furthermore, GIS geodatabases and MapBook templates were used to efficiently supply a stream of procedural and specialty maps to support the high demand of requests from project staff, as well as support a program staff web application. This presentation will deliver an overview of how GIS can be leveraged in disaster recovery efforts, using examples from HCHDRP. With the mass amount of data needing accessed by the various program components, GIS can centralize and provide as a logical access point of required information.

APPLICATIONS OF ENHANCED RISKMAP MAPPING PRODUCTS

Joe Gilberg, GISP, AECOM **Executive Salon 4**

Recently, FEMA has transitioned from their Map Modernization (MapMod) project to their Risk Mapping, Assessment and Planning (MAP) strategy and if you have been involved with MapMod you are aware of the deliverables such as a GIS database, Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRMs). Not only does RiskMAP include these deliverables but new products are going to be available that can be very useful tools for risk communication, analysis and planning. In particular, this presentation will focus on water surface elevations, depth raters and change maps and will give an overview of these enhanced products. In addition, further advanced analysis will

be discussed that can identify areas where your car could float away, human instability in flood waters and potential structure damage.

A PERSPECTIVE ON AGEING GIS WORKFORCE

Ashok Wadwani, Applied Field Data Systems Inc. **Executive Salon 5**

At the present time the GIS community does not seem to be concerned about the upcoming shortage of GIS professionals. In some cases current GIS professional and human resources departments have expressed concerns about the up coming shortage but nothing (or very little)has been done to focus on this issue and take adequate steps to address the situation. The presentation will focus on presenter's observations collected during his several visits with GPS/GIS user community and educational institutes in the USA and abroad. Various options to address this issue will be shared and discussed.

Session Track III – 1:30pm to 2:30pm

TARRANT COUNTY'S GIS SOLUTIONS

Travis Baker & Ramon Campos, Tarrant County **Executive Salon 1**

Tarrant County Provides geospatial solutions utilizing the latest ESRI technologies. These solutions include applications for the Tarrant County Office of Emergency Management, Tarrant County Transportation Department, Tarrant County Public Health and public accessible applications to name a few. The technologies for these applications include a mash-up environment of Bing maps and ESRI Cached mapped services and the ArcGIS API for Microsoft Silverlight. Ramon Campos and myself would like to present the following applications:

TCEOC - This application assists the Tarrant County Office of Emergency Management by supporting real time disaster management, documenting historical disasters for future analysis and prepare/ measure our readiness for future disasters. This application uses the Online ESRI Cached map services.

CAID - This application allows the public to conduct a spatial query based on a user entered address and returns precinct and district information using the latest ESRI REST services and Bing maps.

TCROW - This application assists the Tarrant County Transportation department manage right of way projects, produce statistical reports and

display the project parcels in a geographical manner. This application uses the ESRI REST services to import/export parcel data.

Public Health Complaint Locator - This application assists the Tarrant County Public Health Department in managing reported complaints and staff allocation. Complaints are represented as features with symbology based on the type and age of the complaint. This application uses the ArcGIS API for the Microsoft Silverlight technology.

GIS MAKES ITS WAY TO THE IPHONE, IPAD, AND ANDROID! LET THE FUN BEGIN!

Tanya Hardison, CDM **Executive Salon 3**

GIS on an iPhone and Android? You have got to be kidding… well, it's here, it works, and it will have its place in the industry. In fact, this may be the start of a new generation of geospatial applications. During this talk, an overview of ESRI's iOS, Android, and Windows 7 APIs will presented along with what one needs to know about getting ramped-up to implement these mobile applications. Demonstrations will be provided demonstrating the pros and cons of the technology, as well as the usability of the technology for mobile data access, data collection, and public data consumption.

USING ARCMAP TO GENERATE KML CONTENT FOR CONSUMPTION IN GOOGLE EARTH

Wes Keller, City of Universal City **Executive Salon 3**

Promulgating the use of GIS within an organization requires a platform consumers are willing and able to make use of. Google Earth provides such a platform. It has a simple interface, is economical, and has numerous capabilities. ESRI provides tools in ArcGIS Desktop which allow for the creation and manipulation of Google Earth content. Google Earth has a standard format called KML (Keyhole Markup Language) to store and represent spatial data. This presentation demonstrates some examples being used by the City of Universal City on a day-to-day basis. Examples will include floodplain mapping, zoning, and fire response.

MAPPING ECONOMIC SECTOR TRENDS IN TEXAS WITH GIS AT THE COUNTY LEVEL 1997 – 2002

Charles Woodrow Ashton Jr., Columbia Regional Geospatial Service Center **Executive Salon 4**

Until recently to map economic features one would have to physically search through mountains of data in local depositories, translate those data into spatial units, (counties or municipalities) then build a database of all the necessary information to generate maps. The labor associated with this kind of undertaking made it cost prohibitive for most people other than national or regional economic professionals to compile. And, if attempted, the existing time lag in data reporting made the database basically a historical summary, rather than a current analysis of economic activity. With the continued exponential growth of computer technologies, data sharing, and internet infrastructure, an effective Geographic Information Systems (GIS) application for mapping economic features is possible for use by government entities. The thesis will present a basic spatial economic analysis of Texas using GIS analysis. Methods to produce economic maps that show the general trends in a simple and direct way will be discussed and illustrated. By the end of the work, readers will have a basic understanding of Geospatial Economic Analysis and have the ability to interpret regional maps f or personal or professional research.

MAPPING AND PROJECT MANAGEMENT

Joseph C. Molis, GISP, City of Harker Heights **Executive Salon 5**

GIS can be an invaluable tool in the day-to-day management of a large variety of projects. This presentation focuses on the use of GIS throughout the four primary phases of a project: Planning, Execution, Reporting, and Analysis. While this presentation focuses on a wastewater study, these uses of a GIS can apply to just about any type of project or study.

In the Planning phase, GIS can be used to define and refine the project scope, identify project stakeholders and other parties, determine project phases and benchmarks, and estimate budgets and timelines. Throughout the Execution of the project, GIS can establish progress tracking, workflow management, help with contingency planning, and facilitate and document quality control measures. For project Reporting, a GIS is essential for status report mapping, mapping updates, data integration, and final mapping and reporting. Finally, a GIS is crucial for various project Analyses, such as determining geographic trends, comparative analysis, cost/benefit analysis, and to help determine areas of future study.

Session Track IV – 3:30pm to 4:30pm

USING GIS IN DISSEMINATING HEALTH CARE DATA

Sohail Hasanjee, GISP, Oklahoma State Department of Health **Executive Salon 1**

Health Care Information Division of the Oklahoma State Department of Health annually publishes Oklahoma Discharge Public Use Data File. PUDFs are compiled from health care facilities reported data. Identity of patients and associated health information reported in these datasets are classified by state statutes and protected by HIPAA laws. This presentation will overview the use of GIS and non-GIS processes in georeferencing patient records while maintaining HIPAA's health information security and privacy protection requirements. Presenter will also discuss procedures involved in the pre and post GIS processing of the data and its effects on the output data.

USING GIS AS A SPATIAL INDEX

Krystal Forgenie and Tanya Hardison, CDM **Executive Salon 3**

The City of Dallas is in the process of updating their method of storing and retrieving their stormwater, paving and plat plans. The City has several years worth of paper plans filed and stored. Due to the volume and condition of plans there was a need to store and access these plans digitally for internal and public use. GIS (Geographic Information Systems) was implemented in order to preserve plans and provide the city with easy retrieval to their documents. In order to accomplish this goal, each plan was scanned and indexed to their corresponding feature in GIS. This process was repeated for every plan type. For example, paving plans were linked to the features in the roads feature class in GIS by a unique identification number that was used to retrieve the plan associated with that particular feature. Once all of the scanned plans were spatially linked to a feature in GIS, a Web Application was developed to retrieve plans based on spatial location. The Web Application was then used by city staff and the public to retrieve plans. Additionally a terminal system was implemented that queues scans and allows the user to print scans in full size.

In summary this presentation will outline the process of using GIS to improve the storage and retrieval of city plans by implementing a spatial index and Web Application.

THE UPDATE GAME

Julie Teal, ERDAS, Inc. **Executive Salon 4**

Roads changing and leaving you with old data in your GIS? Is it time to re-fly? We'll look at the workflow of a national mapping agency and see how they approach their task of staying current using Esri's ArcGIS and ERDAS' Stereo Analyst for ArcGIS. We'll also look at the science behind one of the most accurate ways to map your world – stereo feature collection – with and without the funny anaglyph glasses.

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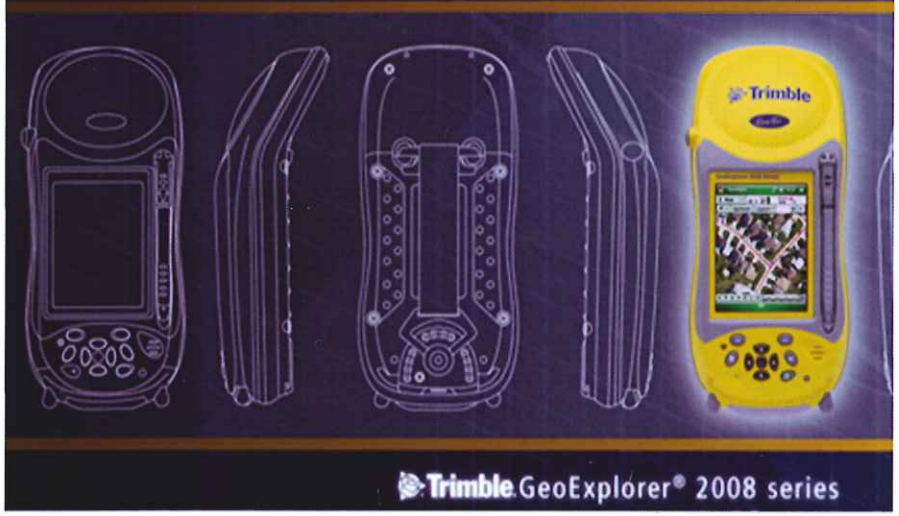

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9:00am	Government 2.0—Envisioning the Future of Delivering Government Services
9:30am	Using Demographic and Business Data to Increase Efficiency and Save Money
10:00am	What is GIS and How Can It Help Me?
10:30am	ArcGIS as a System
11:00am	Best Practices for Hosting and Managing ArcGIS Server in the Cloud
11:30am	Esri Redistricting Solution
1:00pm	Esri Mobile Solutions Overview
1:30pm	Using the ArcGIS Mobile Application
2:00pm	Esri Technical Certification Program
2:30pm	Licensing Enhancements with ArcGIS 10
3:00pm	Practical Applications for Property and Facility Management Enterprise
3:30pm	Esri Community Analyst
4:00pm	What's New in ArcGIS Server 10

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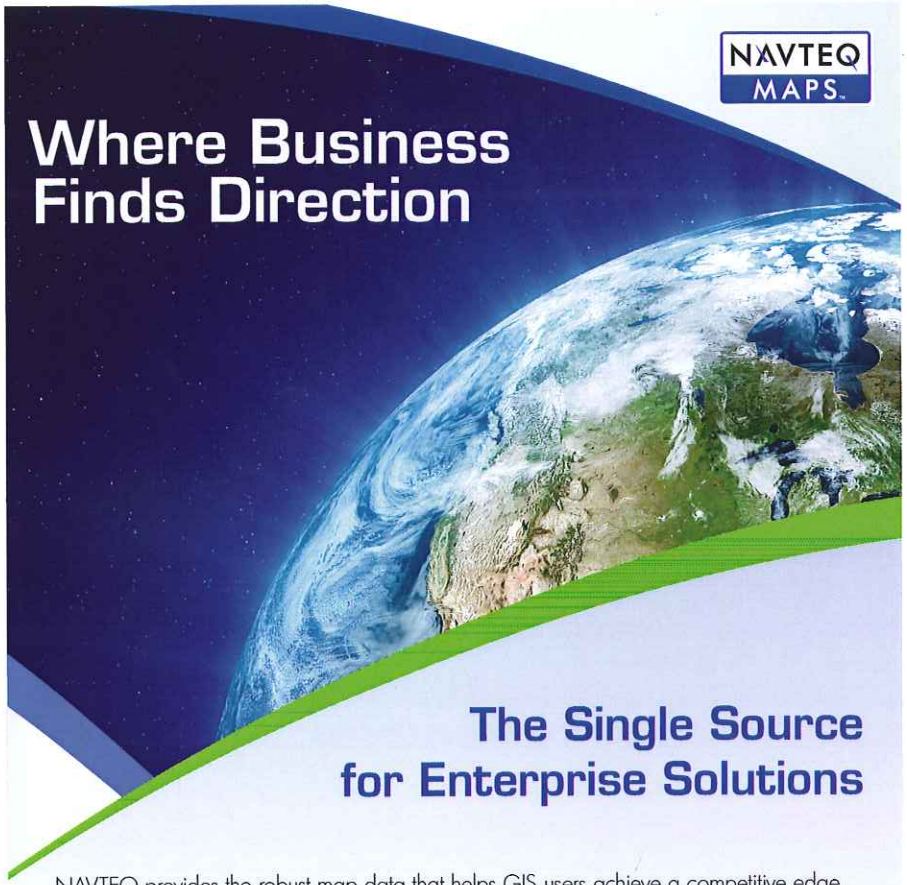

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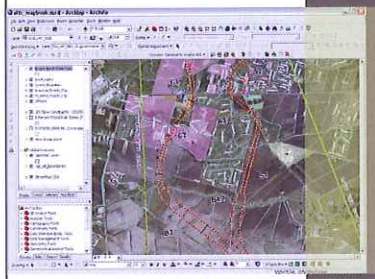

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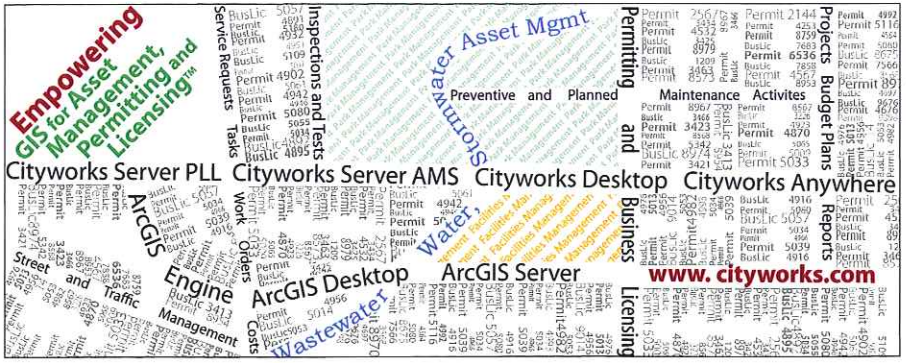

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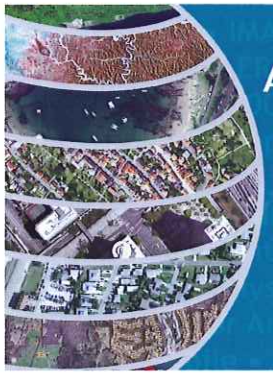

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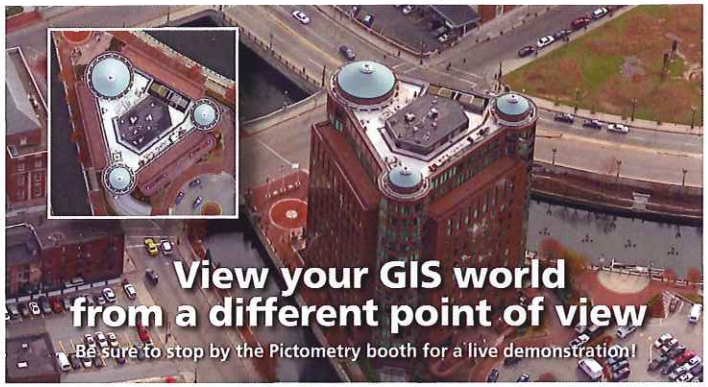

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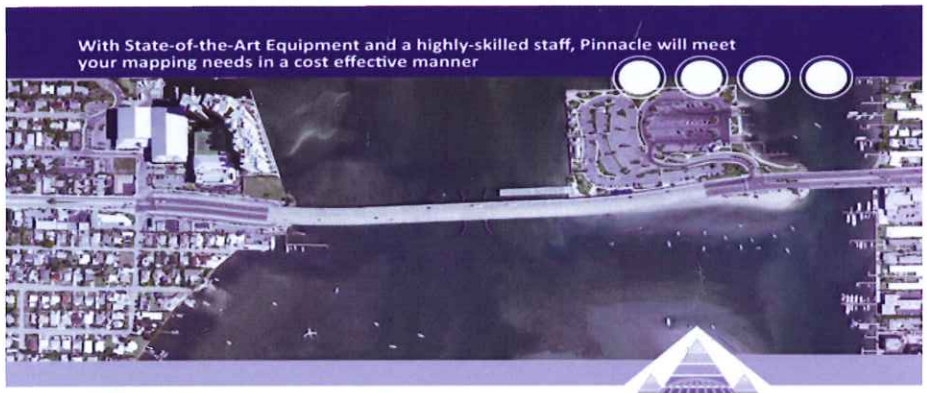

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Pinnacle Mapping Technologies, Inc., a woman-owned and veteran-owned small business, provides a broad range of photogrammetric and GIS services to clients in the private and public sectors. At Pinnacle, we bring together our large company technical knowledge base within a smaller organization. Our customers feel like they are working with a large company that is in tune with quality assurance and customer satisfaction. They receive first-rate mapping products and they spend only a fraction of the cost a large company would charge for those services.

RazorTek LLC is a GIS & Remote Sensing company located in Cordova, Tennessee. Established in 2002, the firm has provided services and technology assistance to the GeoSpatial community. RazorTek specializes in GIS training, feature extraction, product finishing, development and automation of complex systems for spatial data display and analysis. Data conversion from CAD into a GIS format and QC/QA services are also offered with our company. Also RazorTek offers the capability of doing image and MrSID processing if the capabilities are needed.

RazorTek is also a provider for LizardTech software, satellite (Digital Globe and GeoEye), aerial imagery and LiDAR for the GeoSpatial community.

If more information is required for RazorTek capabilities please contact us by email (danr@razor-tek.com) or call us at 303-919-2971.

Stewart Geo Technologies (SGT) is a professional services organization dedicated to providing geospatial solutions to agencies engaged in the design, construction and management of public infrastructure systems. Structured to accommodate time-critical and technically demanding projects, SGT supports its clientele with a broad range of geospatial technologies encompassing photogrammetry, orthophotography, and geographic information systems.

Operating as a division of PropertyInfo Corporation, a wholly owned subsidiary of Stewart Title Company, SGT has provided mapping services for almost a half century. SGT offers the following services:

- Aerial Photography
- Aerial Triangulation
- Digitizing
- GIS Database Creation
- Image Plots
- Parcel Mapping
- Aerial Film Scanning
- Digital Orthophotography
- Digital Terrain Modeling
- GIS Application Development
- GIS Implementation and Training
- Vector Land Base Mapping

As the Nation's largest water, earth, and biological science and civilian mapping agency, the ***U.S. Geological Survey*** (USGS) collects, monitors, analyzes, and provides scientific understanding about natural resource conditions, issues, and problems. The diversity of our scientific expertise enables us to carry out large-scale, multi-disciplinary investigations and provide impartial scientific information to resource managers, planners, and other customers. The National Geospatial Program (NGP) provides leadership for USGS geospatial coordination, production and service activities. The NGP engages partners to develop standards and produce consistent and accurate data through its Geospatial Liaison Network.

USGS
science for a changing world

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2011 GISP Credit Checklist

2½ Day Regional SCAUG Conference in San Antonio, TX (20 hour)

Description	*Class*	*Credit*	*Credit Earned*
Attendee (0.1 x # of days attended)	EDU	0.25	_____
Presenter (1 point per instance)	CON	1	_____
Poster Presenter (1 point per instance)	CON	1	_____
Poster Award Winner	CON	2	_____

2 Day Training (16 hr)

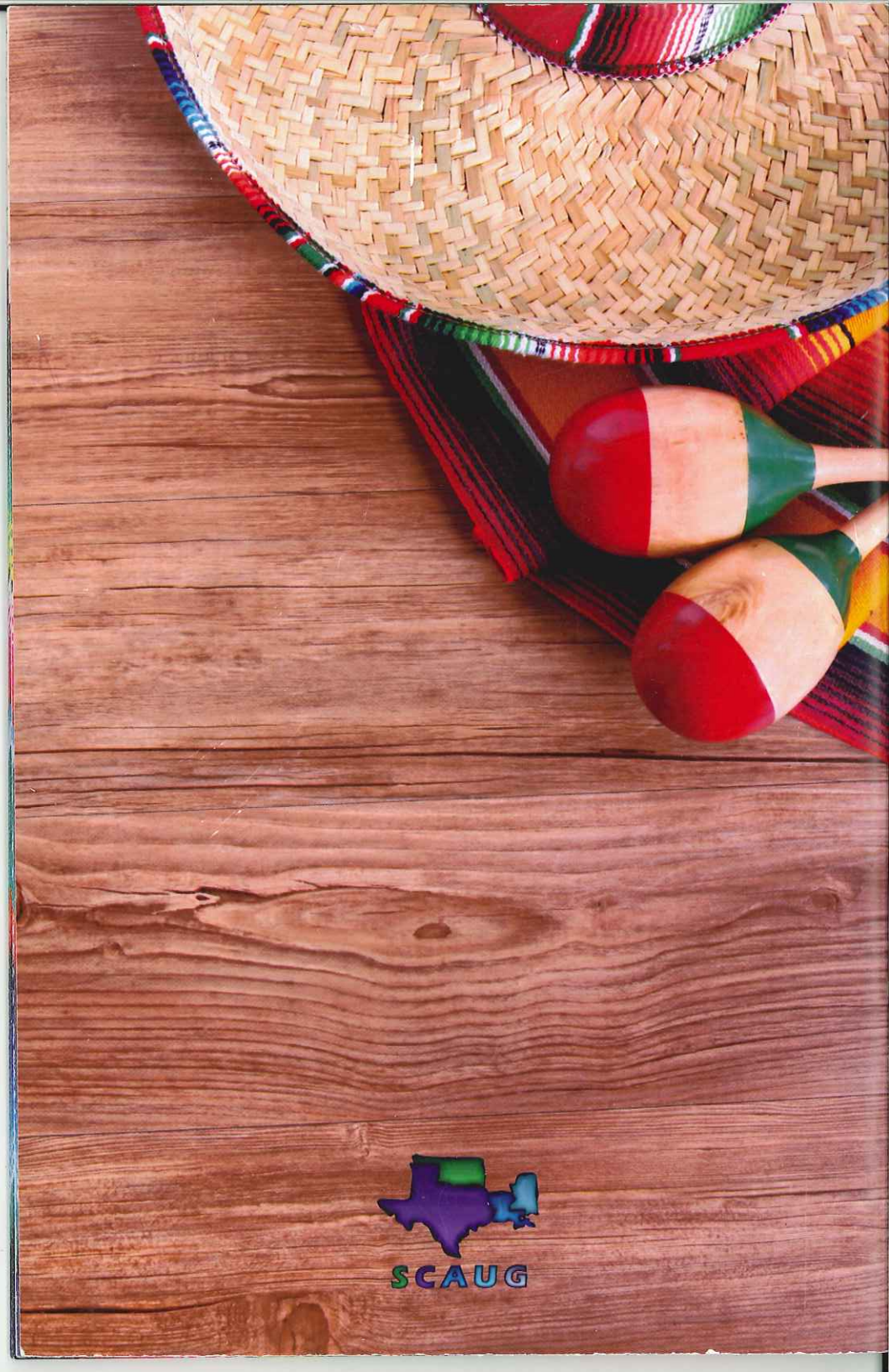
(Training Certificate required for documentation credit)

Description	*Class*	*Credit*	*Credit Earned*
Creating Effective Web Applications			
Using ArcGIS Server	EDU	0.4	_____
What's New in ArcGIS Desktop 10	EDU	0.4	_____
2 Day Training Instructor: _____	EDU	3	_____

1 Day Training (8 hr)

(Training Certificate required for documentation credit)

Description	*Class*	*Credit*	*Credit Earned*
Introduction to ModelBuilder	EDU	0.2	_____
Introduction to ArcPad - ArcPad 10 Edition	EDU	0.2	_____
1 Day Training Instructor : _____	EDU	3	_____


SCAUG

13th Annual User Conference

Conference Guide