



Compass Quarterly



Please submit your abstracts & contact information by August 1, 2008 to:

Volume 3, Issue 2

Spring 2008

Officer's Address

Spring is finally here and 2008 has proceeded at rocket speed similarly to my initiation into the CURISA board. This is my first year of being Vice President with Carolina URISA and I have to say, I've never worked with such a fun group of hard working, creative people. Thank you for the opportunity to serve the Carolina GIS community.

The theme that I have noticed for the upcoming fiscal year - 2008 / 2009 - is the same great GIS events made even better in new spatial locations and facilities. The first event to take note of is the 2008 CURISA & CGITA GIS in the Carolinas Conference - September 7-9, 2008 at the Concord Convention Center / Embassy Suites (<http://www.carolinaurisa.org/pages.php?mode=Events>). This new convention center is laid out extremely well to suit the needs of this conference. Sunday come join us for workshops and a fun evening at Dave and Busters. Monday is a full day of enticing workshops. Tuesday's schedule for presentations includes multiple tracks with a new vendor demonstration track. Vendors will also have one large room (the focal point of all the breaks and lunches) to showcase their products and services. This year's conference price includes a full day of workshops. This conference will no doubt be the best CURISA conference yet.

Be sure to also mark your calendars for the NCGIS 2009 Conference - February 18-20, 2008 at the new Raleigh Convention Center (<http://www.ncgicc.com/CurrentActivities/NCGISConference/tabid/158/Default.aspx>). This event promises to be better than ever

with four to six CURISA workshops, interesting presentation tracks, poster session voting at the evening social and more. The early registration fee is \$110. Three weeks prior to the conference, registration will be considered late and the new fee is \$150. For full-time students the registration fee is only \$25. The new Marriott Raleigh City Center Hotel, directly across from the convention center, is the GIS conference hotel. The special Conference rate is \$115/single and \$125/double occupancy. During late summer check out the conference web site by clicking the "Announcements" on www.ncgicc.org. Contact co-chairs Tom Tribble and Anne Payne of the NC GIS Conference Program Committee with your excellent ideas for tracks and presentations. If you have a program session suggestion, please contact them using these email addresses - (Tom.tribble@ncmail.net and apayne@co.wake.nc.us. I look forward to another great NC GIS Conference!

We've been "Inc'ed"! It's official - CURISA has now been Incorporated. NCURISA was founded in 1991 but did not legally exist as an organization to anyone but the IRS. Since then we have also changed our name to Carolina URISA. The next step was to file Articles of Incorporation to ensure our organization's status. Thanks to Ted Cisine's heroic efforts we are now a legal entity. Great job and kudos to Ted for making this happen!

Katie Brewer, Vice President



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Chapter News:

- CURISA sponsors the most recent Albemarle Users Group meeting.
- 2008 conference planning is already under way—mark the date and location: September 7-9 in Concord, NC
- The Call for Presentations has gone out to all of our members. Send in your abstracts!
- CURISA officially incorporates with the state of NC in order to simplify the chapter's tax status and provide better protection for officers and members.

Calendar of Events



GeoSpatial Infrastructure Solutions Conference & Geospatial Dimensions of Emergency Response Symposium; Seattle, WA; March 9-12, 2008 (<http://www.gita.org/events/annual/31/index.asp>)

SC Chapter of the American Planning Association (SCAPA) Spring Conference; Newberry, SC; March 7, 2008 (<http://www.scapa.org/>)

North Carolina Property Mappers Association; multiple workshops and locations; March 7 - April 23, 2008 (<http://ncpropertymappers.org/workshops/workshops2008.html>)

URISA/NENA Addressing Conference 2008; Portland, OR; April 7-10, 2008 (<http://www.urisa.org/conferences/Addressing/Info>)

ESRI Southeast Regional User Group Conference (SERUG); Jacksonville, FL; April 14-16, 2008 (<http://www.esri.com/events/serug/index.html>)

American Planning Association 100th National Planning Conference 2008; Las Vegas, NV; April 27-May1, 2008 (<http://www.planning.org/nationalconference>)

North Carolina Geographic Information Coordinating Council (GICC); Raleigh, NC; May 14, 2008 (<http://www.ncgicc.com/Meetings/tabid/138/Default.aspx>)

NC Local Government Information Systems Association (NCLGISA) 2008 Spring Conference; Wilmington, NC; May 28-30, 2008 (<http://www.nclgisa.org/conference.htm>)

National Emergency Number Association (NENA) 2008 9-1-1 Conference & Trade Show; Tampa Bay, FL; June 7-12, 2008 (<http://www.nena.org/pages/ContentList.asp?CTID=70>)

URISA Leadership Academy; Chicago, IL; June 16-20, 2008 (<http://www.urisa.org/ula>)

CURISA and CGITA 2008 Conference; Concord, NC; Sept 7-9, 2008 (<http://www.carolinaurisa.org/pages.php?mode=Events>)

2009 NC GIS Conference; Raleigh, NC; February 18-20, 2009

Belong to a local users group?

Advertise your next meeting with CURISA or get a sponsorship grant. Email <mailto:kristianforslin@ncrr.com> with your event.

Chapter Contacts

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Advisory Board

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Member Spotlight

Each installment of the Compass Quarterly will feature an interview with an active member of Carolina URISA. This quarter CURISA asks one of our long time members, Jeff Treizenburg from the Town of Knightdale, NC, a few questions...

Please tell the readers a little about your career.

After working 6½ years for the City of Burlington first as a planner and then as the new GIS Administrator, I am now working for the Town of Knightdale as their Long-Range Planner and have been with them for 3½ years. While my employment in Burlington kept me more or less in distinct planning/GIS camps, my current job allows me to be involved in the best of both jobs. Fortunately, I have a great resource in Wake County GIS which creates a lot of the data I use on a day-to-day basis. However, I still manage the database structure for the Town and am responsible for the creation and management of local GIS datasets.

What GIS software does your organization use?

Like many local governments, we are an ArcGIS shop.

What specific goals, including those related to your occupation, have you established for your life?

I never thought I'd be in the NC government system this long, but since I'm a third of the way there, I might as well shoot for full retirement at 55! Seriously, specific goals used to be a more significant factor in my life, but today, most of my goals revolve around having a balanced and happy life.

What is your educational background?

I believed in taking a broad approach to my formal education. Coming out of high school, I knew I was going to major in Geography. As a high school junior, I thought I would be an Engineer like my youngest sister, but then Pre-Calculus class came along—not for me! Fortunately, my oldest brother had gone back to college, knew I loved maps and history, and introduced me to a Geography professor who would eventually become my college advisor. I completed my major in Geography at Calvin College (Grand Rapids, MI) in 1994, and took my first GIS class which introduced me to programs like AtlasPro, MapIt, and early versions of GRASS. Since I couldn't decide on a minor, I cobbled together a second major, a "group major", in Environmental Studies, Economics and Sociology. This actually proved to be a good choice in preparing for attending graduate school in urban planning. After taking a couple years off, I was accepted to the nationally-ranked Department of City and Regional Planning (DCRP) at UNC-Chapel Hill, and I finished my Master's degree in 1998. While there, I concentrated in Real Estate Development, which allowed me to take GIS courses from the Geography Department, law courses from the Law School and real estate courses from the Business School in addition to my core planning courses from DCRP.

How has your college experience prepared you for a career in GIS?

While I received my introductions to GIS from my college experiences, it really was my first years of working for the City of Burlington that prepared me for making GIS a part of my career. At the time, there was little support for GIS from the City's IT Department since they really did not know much about it. My Planning Director, however, was very aware of the potential that GIS technology held for his department and the City as a whole, and he charged me with starting up a new division within the department exclusively for GIS. After a lot of research, studying on my own, and taking day courses from Georgia Tech University and ESRI, I suddenly found myself immersed in the world of ArcIMS, ArcSDE, data models, metadata and more. Before long, we had our own data server, and I was able to steal away the best person I could have ever hoped for from the IT Department to be my GIS Specialist...Ms. Trish Patterson, who is still employed there today. With her expertise in IT and my knowledge of GIS, we were able to build a GIS for the City from scratch.

What do you think it takes to be successful in this career?

The ability and the drive to keep up with changes in technology and overall pace of the industry.



Jeff Treizenburg



Jeff has been a long standing member of CURISA.



We are looking for interesting subjects for our next interview!

This is an excellent opportunity to showcase someone's talents, learn from and about fellow members, and share with CURISA members.

If you know someone who you would like to see interviewed and hear what they have to say about CURISA, GIS, etc., please email the editor at: <mailto:kristianforslin@ncrr.com>

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Member Spotlight



What has been the biggest change in GIS since you began your career?

The geodatabase! No, actually, while the geodatabase has made my life easier as a user of ESRI products, I think the biggest and most influential change has been the ability to bring GIS to the web, and thereby to the masses. It's been so interesting to watch how something that used to be just in the hands of a few is now in the hands of so many.

What major projects are you working on now or have just completed?

My most recent major project involving GIS has been to assist in the development of a new water allocation policy for the Town of Knightdale. The project involved assembling and linking/relating data from various sources, analyzing the quality of the data in the various fields, selecting data fields for consideration as part of the policy, developing criteria for the categorization of each land parcel according to the policy goals as established by management, querying the data to assign each parcel to a category, producing overall statistics and reports, repeating the process for other jurisdictions, and recommending fundamental objectives for moving the policy forward.

What professional GIS organizations are you a member of?

I am currently a member of CURISA and URISA.

What is the easiest, most effective way for someone to contribute to the GIS industry?

Education. Whether it is a simple presentation to an elementary school classroom, a public display for GIS Day or adding information to your agency's website, there are many opportunities for anyone to help educate the public.

Do you know people who are not GIS professionals that have been affected by or have adopted GIS in their lives?

Actually, my partner runs a family florist and interior design business that I have a stake in and help out with during the big floral holidays (Valentine's Day, Mother's Day and Christmas), and we have used GIS (ArcExplorer) to produce delivery route maps across a 3-county area. Additionally, we utilize online GIS mapping systems to incorporate maps into the delivery sheets that each driver takes out with them and fills out for delivery confirmation. Next, I'll be looking at handheld navigation systems, but I'll have to be more confident in the data quality and updating schedules before we invest in them.

How do you feel about how far educational institutions have come in terms of GIS curriculum in the past 5 – 10 years?

I think that the educational systems have come a long ways in terms of making classes available in more areas through the formation of certificate programs and continuing education classes. However, there still is a wide variation in what constitutes a curriculum. If the educational system is going to take this further, they need to focus on what core knowledge is necessary. If someone came to me and stated that they had completed their GIS education at a particular institution, I'd really have to dig through their course schedule and course descriptions to figure out what knowledge I might expect them to have learned. This has been a topic of discussion in recent GIS conferences, and I hope it will continue to receive good debate over the next few years, so that common ground for a GIS curriculum can be found and applied to programs nationwide.

In your opinion, what are some 'hot button' issues affecting the GIS industry right now?

It would definitely have to be defending the validity of our profession against others out there. We have a similar struggle in the planning field. Having the GISP program in place has certainly helped, and I'm encouraged by the dialogue between professional organizations that has been undertaken to discuss the place of GIS workers within the professional world; however, I feel this will be an issue that will demand our attention for some years to come.

What is your favorite movie of all time?

Don't laugh...The Sound of Music...I'm a sucker for a good musical, and who can't be inspired by "Climb Every Mountain"?

What would you like to be known for?

Simply for being a good steward of everything that has been given to me.

What was your first job?

Cooking the Colonel's original secret recipe chicken...and no, I can't tell you what it is.

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Member Spotlight...Cont'd

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What countries have you visited?

I have had the privilege of visiting the Netherlands, Germany, Switzerland, Lichtenstein (the home of the village of Triesenberg), Belgium, France and Canada.

What is the most important thing that your mother/father taught you?

I would have to say they taught me the importance of having a strong work ethic and the importance of striving to live your life as an example to others. And not to mention the work that goes into building and nurturing a relationship that has brought them up to 57 years of marriage this year.

Who's next?

Who would you like to know about? Put someone on the spot and volunteer them to be interviewed. We'll be gentle.

Send in your victim's name to: <mailto:kristianforslin@ncrr.com>

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Featured Article

A New Look on Historic Aerial Photography

by Ted Cisine, GISP, PGISS - GIS Analyst, Cabarrus County Government &
Sean Maxwell, CP, PLS, PPS - Geofiny Technologies LLC

Like many other counties and cities across the nation, Cabarrus County has a wealth of information in the form of historic aerial photography. It had been flown over the years for multiple different uses including agriculture, tax assessment, parcel mapping, disaster recovery, and other purposes. This photography took many forms such as contact prints, aerial photo enlargements, hard-copy orthophotos, and even some copies where the originals were lost or damaged. These photos had a lot of things in common, they were in hardcopy format only and could not be used in conjunction with modern day tools such as GIS. They had inconsistent, indiscernible and sometimes incorrect indexing systems and were scattered among multiple departments, some of which were in different buildings. They were not easy to get to, their condition was deteriorating and most were irreplaceable. Most people including many county employees did not know that they even existed.

When anyone needed to look at these aerial photos, they had a few challenges ahead of them. First was to figure out what existed and where it was physically located. In many cases the location was an old file drawer or box in a storage room. Once they found the photos, they had to try to find and decipher an index to determine which photo/sheet/print shows the area of interest. For some years, there was no index so the user had to randomly flip through them in hopes that they recognized the one that they needed. Then they could start looking for the photo they needed, which can often be out of order, in the wrong place, or missing entirely. Once the user found the photo they required, they would then try to overlay other data such as parcels, flood zones etc and try to determine a relative photo scale to match the data together. If they needed to make a copy of the photo, depending on the size, quality, condition, and contrast of the photo, making a legible copy could be a challenge in and of itself. These problems were an inconvenience, but the biggest problem was that many of these photos were the only known copy in existence and were irreplaceable if something would ever happen to them.



With these problems in mind, we decided that we needed to do something to preserve them and make them more accessible to County staff and the general public. With the imaging technology totally moving to a digital softcopy environment, Cabarrus County decided that all the old hard copy historical data would be converted into seamless geo-corrected digital files. The converted data would be used as the source for a digital image database history of the County. The information would also be added to our existing County GIS system for online public access.

To start the process we first had to audit what we had to determine what was available, where they were, who owned them, and what condition they were in. Next, we needed to determine exactly what we wanted done with them so that we could formulate specifications and calculate rough costs for budgetary purposes. Simultaneously we needed to work out some coordination issues since the photos are owned by different departments, and in some cases are co-owned with the Federal Government. At the end of the audit we found twelve different sets of photography with different dates and in different sizes from 9" X 9" contact prints, to multiple sizes of photo enlargements and orthophoto mylar sheets. We also discovered survey documents and old tax maps along with old Cabarrus County historical maps. Altogether there were a total of 5,279 photos, maps and documents which required archiving. These items were stored in three departments dating back to 1938. After working out all of the coordination and logistic issues in getting future access to these maps within the departments and the Federal Government we moved forward on the project scope and specifications.



For the specifications, we decided that we wanted to create geo-referenced digital image tiles using the county's standard indexing system (coordinate based and used for current orthophotography projects) so that retrieval of the images would be uniform across the data sets. Also, a seamless digital countywide mosaic of the imagery was to be created for each year of photography. All images were to be balanced for

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Featured Article

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brightness and contrast to eliminate the checkerboard effect, and clipped to ensure that there are no gaps or overlaps. In the end, we wanted to achieve optimal positional accuracy and to simulate a digital orthophoto as closely as possible.

Geometric accuracy of the converted image digital data is very important to Cabarrus County and is essential for this project to be successful. The information derived from different sources should have geometric compatibility to establish horizontal alignment between features represented in different source maps. This will facilitate merging and integrating various map features which will support future spatial analysis. It was expected that the selected vendor would provide a horizontally accurate and radiometrically adjusted seamless product.



We set a very high standard for positional accuracy (Horizontal accuracy) and the radiometric fusion of intra and inter images. By achieving a high positional accuracy, it would be possible for us to bring the existing County vector data layers (road centerlines, parcel and zoning boundaries, etc.) superimposed upon the image basemap. If the accuracy is not achieved, the vector data layers will not line up with the image basemap, and the basemap would be perceived to be of limited value and will not be integrated into standard County operations and decision making processes.

It was agreed that in order to create a planimetric accurate image basemap of historical images there are two possible approaches, "Image Geo-referencing" using a polynomial model with control points acquired from existing Images and or Maps. The other is "Image Ortho-rectification" using a Photogrammetric process which would possibly incorporate an aerial triangulation process along with available Lidar or elevation models and radiometric corrections and adjustments using orthophoto production software and procedures.

Image georeferencing using polynomial methods has been used since the early of days of assembling vector or raster map data. The polynomial function of the 1st degree allows the correction of translation, rotation, scaling in both axes and obliquity. Polynomial functions of a higher degree (mainly 2nd and 3rd) enable us to correct larger distortions. However, they are generally limited (small image, flat relief and so on), as they do not reflect the causes of distortions during formation of the image. Moreover, one of the assumptions of these functions is that the ground is flat (with no curvature of the Earth), and without relief.

In our project with so many images from different years and on various mediums it was thought that, a geo-referencing process would not adequately meets the accuracy requirements. So we embarked upon the Image ortho-rectification process using photogrammetry techniques which involved the aerotriangulation based ortho generation procedure. With this approach we are able to tie in the entire images using a process, which facilitated higher positional accuracy. As a result were are able to generate a product that is close to an Orthophoto quality in relative accuracy and radiometry.



Once we amassed all the required specifications and technical information, we prepared a RFP outlining our inventory and specifications, and released it in early 2006. We asked each of the responding vendors to base their proposal on the following procedures to include scanning hard copy aerial photography from contact prints, photo enlargements and orthophoto mylars at different years with a DPI suitable to produce a 1/2', 1' or 2' pixel output. After the scanning is complete the images are to be referenced to NAD 1983 NC State plane coordinate system. After the geo-correction is complete the vendor will clip the geo-corrected data with reference to a standard tile grid for Cabarrus County. The clipped images will not have any overlaps or gaps between images.

The individual geo-corrected images will be adjusted for contrast and brightness of each individual image in order to have a more consistent radiometric balance across all the images. The individual geo-corrected tiff files will have associated .tfw file as per the NC Land Records Standards and finally the individual geo-corrected files will be converted to a seamless countywide

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Featured Article

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image mosaic. For viewing and possible distribution purposes the mosaic will be in a compressed format using standard industry image compression software.

For the Cabarrus County historic tax maps which needed to be converted into a digital format and geo-referenced, we requested that the final image be of a high quality resolution for viewing purposes. These maps were also to be geo-referenced to NAD 83 grid and needed to be delivered in a seamless mosaic with the collar and surround removed. The horizontal accuracy was subject to the accuracy of the existing maps. The original scanned images of each of these tax maps, indexed by map title, shall be an additional deliverable. No post-processing or geo-referencing was required for this additional deliverable, with the intent to preserve the maps in their original state with the collar in tact for archival purposes.

In our RFP we incorporated a vendor selection criteria based on vendors that have experience and knowledge in the GIS and Mapping Industry and are familiar with the products being scanned and delivered to the County. We also developed a point system that rated the vendors based on criteria such as Qualifications, Expertise, and Experience. Delivery of the final data in original and compressed file format along with associated metadata files was also an important component to the project.

After sending out our RFP we received proposals from several qualified companies. We went through a review process of each proposal and requested each vendor provide data for a pilot area we outlined. We wanted to be sure that each of the vendors understood the specifications and final delivery products being requested. We were also looking at any innovative ideas or processes that could be added to the project in order to provide the highest quality image product using to-day's imaging technology, understanding that we were working with old photographs dating back to 1938.

We reviewed all the proposals and the pilot data which included carefully analyzing the procedures and methodology presented in each proposal. In our evaluation process we awarded selection points based on experience, methodology, completeness, and timeline.

After all information was evaluated we awarded the contract in June 2007 to Geofiny Technologies, LLC in Wilmington, North Carolina. The project was completed in December 2007. Our digital photography covers imagery from 1938, 1950, 1956, 1964, 1975, 1986 and 1987. We also received delivery of over 2600 tax documents and various historical County maps in digital form. When we received the final deliverables from the contractor, we loaded the data into our Geodatabase and put on our website so that everyone can access it. Since then we have resolved the problems that we had identified by having it centrally located, having it easily assessable to everyone, making it easy to use, and preserving it in a digital format for all generations to easily view.

In summary, we learned a lot about taking historical Cabarrus County hardcopy data and putting it into useable digital format within GIS. For us it was not just a simple geo-referencing project. The project entailed working with different departments within the County to provide data sharing and resources to acquire radiometric consistency across imagery from twelve different time periods using different sources. Capturing the data with several different image scanners, geo-referencing the imagery using upto six different mapping and GIS software packages and procedures and all with the intent to blend and mold all the data sets for consistency within our existing GIS.

Our target or goal as was mentioned previously was, "If the accuracy is not achieved, the vector data layers will not line up with the image basemap, and the basemap would be perceived to be of limited value and will not be integrated into standard County operations and decision making processes". We believe this project achieved these goals and is being used in the Cabarrus County decision making processes.

To see this data, please visit our website at www.cabarruscounty.us/GIS and follow the Mapping link.

The Compass Quarterly would like to see your articles!

Submit your GIS, local government and IT articles to the CURISA newsletter so you can share your knowledge with fellow members and help the newsletter grow. It is a great way to have staff recognized for their achievements outside of the office and can gain notoriety for your department.

Best of all...it's FREE for members!

The 2008 Conference

Carolina URISA & Carolina GITA

Are pleased to announce the Call for Presentations
Concord Convention Center / Embassy Suites – Concord, NC

Carolina URISA & Carolina GITA invite you to share your knowledge and special projects with others by submitting an abstract for presentation. We plan to stage another successful conference this year with high hopes for another big attendance turnout. Last year we were joined by close to 200 of your colleagues, showcased 20+ presentations, and had an exhibit hall with 20 vendors ready to demonstrate their products and services. Your involvement with the conference will earn points towards professional certifications as well.

All presentation abstracts received by August 1, 2008 will be reviewed and considered for the conference. Conference presentations will be scheduled for 30 minutes or 1 hour, but we request the presentation be able to fill the time given. The conference will feature three tracks this year, two of which will be general and intended for educating registrants on applications of GIS. A third track will be reserved for vendor demonstrations and is specifically designed as a showcase for specific products or services (once registration opens these slots will be first come, first serve).

Please submit your abstract and your contact information including name, address, phone numbers, and email if you would like your presentation to be considered for the 2008 conference.

Projectors and screens will be provided and internet access is by request. Presenters are encouraged to submit a copy of their presentation before the conference, however they can also be brought to the conference on removable media (CD or thumb/flash drive)

The conference will also need program track moderators and other volunteers to help things go as smoothly as possible.

- ✓ Enterprise GIS
- ✓ Transportation Systems
- ✓ Asset Management
- ✓ GIS and Public Health
- ✓ GIS Management Issues
- ✓ Metadata Management
- ✓ ArcGIS Server / SDE Implementation
- ✓ GIS Architecture Specs
- ✓ Data Sharing Issues
- ✓ GIS and Public Policy
- ✓ GPS Applications
- ✓ Mobile GIS
- ✓ Aerial Photography
- ✓ GIS & Land Surveying
- ✓ Other Topics of your choice

Please submit your abstracts & contact information by August 1, 2008 to:

Kristian Forslin, VP CURISA
kristianforslin@ncrr.com

URISA and GISCI Corner



URISA's 2008 Student Paper Competition Opens...<http://www.urisa.org/node/1042>

GISCI Announces Mentoring Program<http://www.gisci.org/News/news.aspx>

The GISCI's Grandfathering Provision Ends December 31, 2008... <http://www.gisci.org/News/news.aspx>

Ohio Endorses GISCI Certification...<http://www.gisci.org/News/news.aspx>

75 New Certified GIS Professionals (GISPs) Announced on February 25, 2008. 2,061 Total Number of GISPs World-wide. 150 in North Carolina & 40 in South Carolina for a total of 190.



Congratulations to CURISA members who have recently gotten their GISP:

Jack Drost—Henderson Co., NC

John Begg —Milliken Forestry Company

CURISA Corporate Members

Palmetto Rural Telephone Co-Op (Engineering Dept.) - Robert Carlock, James Henderson and Danny Colson

Duncan Parnell—John Williams, Mike Withers, Daryl Huffman and Clay Pate

The Davenport Group—Kelly Laughton

Officer's Meeting Minutes (condensed)



Highlights from the most recent Carolina URISA officer's meeting February 29, 2008 Concord, NC:

- CURISA's plans to create 'On-Demand Workshop Program' have been put into action. Over the past couple of months CURISA offered an online workshop survey. Over 100 people responded! If you haven't had the chance, please take the survey at <http://www.carolinaurisa.org>
- 2008 Conference planning is underway. The 2008 CURISA and CGITA conference will be held in Concord, NC at the new Concord Convention Center / Embassy Suites near the Lowe's Motor Speedway on September 7-9. The format will be different this year with the first full day being workshops that are included with your registration. Check out CURISA website for more information as it becomes available <http://www.carolinaurisa.org>
- The 2009 NC GIS conference was also discussed at length. Andrew Shore and Katie Brewer will be coordinating the workshops and Katie is also coordinating the poster session. A virtual tour of the new Raleigh Convention Center is available at: <http://www.raleighconvention.com>

Next meeting: TBD

Location: TBD

If interested in attending, please contact: <mailto:kristianforslin@ncrr.com>



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Imagine the result



Save the Date!

September 7-9, 2008

Embassy Suites & Concord Convention Center, Concord NC

Membership Renewals

It is easier than ever to become a member of Carolina URISA!

The officers have adopted a new online registration system through a company named Thriva. Now, individual or corporate members can create a CURISA account and register online. Options exist to use a credit card, pay by check (electronic or by mail, or set it up to bill you later. Members can also manage the details of their account by logging in and changing passwords, addresses, etc. This same online method will be extended to conference registration as well when the time is right. CURISA hopes that this service will be a big help to our members.

The links are accessible through the CURISA website <http://www.carolinaurisa.org> or follow the ones below.



Individual Membership: <https://secure.thriva.com/Reg/Form.aspx?IDTD=807616&IDRPH=1209107>

Corporate Membership: <https://secure.thriva.com/Reg/Form.aspx?IDTD=807616&IDRPH=1209106>

Your membership helps CURISA continue to serve the community!

Your advertisement will reach over 200 members specifically targeted in the Carolinas. Members range from local and state government agencies to private companies who need your products and services.

We will accept 1/2, 1/4, and 1/8 page general business ads as well as submissions for any of our newsletter features, such as Featured Articles and the CURISA Toolbox.

Our rates are reasonable and we can accommodate most special requests. If interested please email <mailto:kristianforslin@ncrr.com> for a media kit.



Remember...All members, including corporate members, can submit one featured article per year. This is a great way to address an experience you would like to share and earn GISP certification points.



Contributors

Officers

Kristian Forslin—Editor

Katie Brewer- Calendar of Events, Officer's Address

Members

Jeff Triezenberg —Member Spotlight

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End of Newsletter