GIS-Pro & NWGIS 2015… A Meeting of Geospatial Minds in Beautiful Spokane, Washington

Nearly 450 GIS professionals — from 37 states, 3 Canadian provinces and 8 countries — gathered in Spokane at the Davenport Grand Hotel, October 18-22 to share information, connect, and find solutions.

URISA partnered with the Northwest GIS Users Group, Northern Rockies and the Washington URISA Chapter for this event and the ‘buzz’ was incredibly positive. Both first-timers and conference veterans were thrilled with the high quality of education presented.

And a number of people commented about the ‘welcoming’ atmosphere. Respected GIS experts, students, young professionals, and mid-career managers discussed technology, career paths, and best practices. Friendships were formed and professional connections were strengthened.

Another well-attended Sunday night Geocaching Event! NWGIS classes were offered on Sunday and

Carl Anderson taught the URISA Business Intelligence for the GIS Professional workshop on Monday.

Tuesday’s opening session featured an engaging keynote address from Breece Robertson, National GIS Director for the Trust for Public Land.

Josh Greenberg, President of Washington URISA, welcomed everyone to the Evergreen State.
Monday. URISA’s preconference workshops were extremely well attended on Monday and the evening Maptionary and Ignite sessions were a blast. Esri sponsored a User Group Meeting, and their Hands-On Learning Lab was a busy room all week.

The conference program is still online https://gispronwgis2015.sched.org/). Take a look at the educational content presented if you weren’t able to join us. Top notch! More than 40 breakout sessions with nearly 100 speakers were featured. Six breakout sessions were presented concurrently during the conference, leaving many with the difficult decision of which one to attend (because so many looked valuable).

A huge thank you to our sponsors and exhibitors! Attendees greatly appreciated the opportunity to learn about solutions in the Vendor Spark Session and during breaks in the exhibit hall. One lucky attendee won an Apple Watch and another won a Star Wars droid. Betty Conces won a registration to next year’s conference in Toronto!

One of our participating exhibitors was extremely happy with the connections he made during the conference, noting, “I have at least 45 good leads. This conference has been great!”

Tuesday’s Vendor Spark, lunch presentations and discussion tables were a highlight.

Lots of events on Tuesday evening with a Networking Reception, a Young Professionals MeetUp, a Northern Rockies Chapter Social, a Washington URISA Chapter Social, and an Esri Geo DevMeetUp.

Early Wednesday morning started with a Fun Run (the sun wasn’t up yet). Thanks to Ian Von Essen from Spokane County for all of his contributions!

Then we recognized URISA’s Exemplary Systems in
Government Award winners and outstanding volunteers during the Awards Breakfast. Several ESIG winners provided amazing video testimonials from their organizations.

The 2015 Enterprise System Category Winner was “Boldly Know: York Region’s Enterprise GIS”. The application was submitted by John Houweling, Director, Geographic Information Services Branch, Corporate Services Department of the Regional Municipality of York, Ontario Canada. Duncan Rowe, GIS Manager, accepted the award on the department’s behalf.

Distinguished Systems:
- Transportation Information Mapping System (TIMS)
  Ian Kidner, GISP, GIMS Systems Administrator, Ohio Department of Transportation
- NPMap Builder
  Nate Irwin, Web Mapping Coordinator, US National Park Service

The 2015 Single Process System Category Winner was “Next Generation Permitting System” submitted by Dennis Hangelog, Planning and Land Services Director, Pierce County, Tacoma, Washington. (Note that Pierce County has been honored with an ESIG award four previous times. They’re doing some good things in Tacoma!)

Distinguished Systems:
- Calgary Automated Survey Plan Verification and Reporting (CASPER)
  Arne Svedahl, Leader, Cadastral GeoSpatial Asset Management, City of Calgary, Alberta Canada
- Mobile Voter Line Wait Application
  Tim Nolan, GISP, Senior Applications Manager, Collin County, Texas

Then we recognized some outstanding volunteers. Dan Narsavage presented Dave Williamson, retired GIS Manager at City of Post Falls, Idaho with the Northern Rockies URISA Chapter’s Excellence in GIS Award. Brent Jones from Esri announced the winners of its Story Map Competition. A number of URISA volunteers were honored with annual service awards. Hilary Perkins, Super Volunteer, was the well-deserving recipient of the Horwood Distinguished Service Award. Kim McDonough and Bruce Joffe were both recognized for their years of dedication and passion with URISA Leadership Awards. Keri Brennan was honored with a URISA Service Award for her commitment and enthusiasm for the organization. Three URISA Past Presidents (Dianne Haley, Glenn O’Grady and Ed Wells) and current Board member, Kevin Mickey, dedicated several months this year to updating URISA’s Bylaws and Policy Manual. They were recognized for this incredible volunteer effort with the 2015 Barbara Hirsch Special Service Award. Georgia URISA was continued on page 4
named 2015 Outstanding Chapter of the Year and Wendy Peloquin was named Young Professional of the Year!

Dr. Lesley Arnold, Deputy Chair of the Western Australian (WA) region of the Surveying & Spatial Sciences Institute (SSSI) was our guest for the week. She dove right in to the conference, attending the URISA Board meetings, delivering a fabulous impromptu Ignite presentation, and providing an update from our sister association in Australia and New Zealand. We hope she comes back every year!

A full day of sessions and exhibit time followed by the conference social event that evening made for a full day. Excellent food and conversations around fire pits on the Grand Terrace, moving inside to listen to the energetic local band, Mojo Box. A great time!

Thursday morning featured a final round of breakout sessions, a fantastic closing keynote from Dr. Este Geraghty on the topic of “Building Healthy Communities”, and the annual business meetings of URISA and NWGIS.

Thank you to this year’s conference committee, led by Luke Boggess, Diana Rodriguez, Wendy Peloquin, Linda Davis, Bart Butterfield, Betty Conces, and Donna Phillips. It was great working with NWGIS again! And the partnership with our Northern Rockies and Washington Chapters was phenomenal.

See you next year in Toronto! You don’t want to miss it!

GIS-Pro 2016: URISA’s 54th Annual Conference
October 31-November 3, 2016
Westin Harbour Castle
Toronto, Ontario Canada

GIS-Pro is thrilled to be heading back to Barbados for the 2016 URISA Caribbean GIS Conference. Barbados was the site of our second conference in 2004. The conference is organized by a committee of Caribbean GIS experts, who dedicate considerable time and energy to developing an important educational program. The conference features an Exhibition and a number of professional development and networking opportunities.

Don’t miss your opportunity to participate in the conference as a presenter, exhibitor, or attendee!
Toronto. Where will it take you?

Picture this. It’s early evening and you’re looking for a place to eat. Something different. Something new. Something inspirational. Your sense of creative adventure compels you to catch a taxi bound for the heart of Chinatown. Everything you see along the way inspires the photographer in you. Suddenly, you discover a friendly little restaurant and duck in for authentic Vietnamese cuisine. That’s when you realize you’re in Toronto, a million miles away from the ordinary, where anything is possible.

GIS-Pro 2016: URISA’s 54th Conference
Join us in Toronto for GIS-Pro 2016! The conference will take place October 31-November 2, 2016.
Visit www.urisa.org or www.gis-pro.org
Join URISA and IAAO for the 20th Anniversary of the GIS/CAMA Technologies Conference
February 22-25, 2016 • Hyatt Regency Savannah - Savannah, Georgia
We're going back to the 'birthplace' of this conference to celebrate the milestone 20th anniversary! This annual conference and exhibition is cooperatively presented by URISA and the International Association of Assessing Officers. This conference is designed to foster collaboration and integration of data, technology and functionality.

Early registration discounts available until December 14, 2015
Check out the substantial education on the program: http://giscama2016.sched.org/

Full-day workshops:
• Deploying Mobile GIS
• Introduction to Valuation & Spatial Analysis
• Using GIS and CAMA Data to Support Emergency Management

Afternoon workshop:
• Basics of the R Statistical Software

Opening Keynote Address from Mike Vaquer and Keith Cunningham

Eighteen Breakout Sessions with 75 Presenters:
• Easy Ways to Share Public Assessment Data
• Big City Valuations
• Future of Valuation
• Improving our Practices: Better Ways to Understand Each Other and Explain Our Work
• Modern Parcel Maintenance
• Commercial Valuations
• Integration of GIS and CAMA: Sharing Ideas and Then Telling Your Story
• Technology for Damage Assessment
• Improving Assessment Records Using Modern Technologies
• Using Your GIS Technology for Improving Operations
• Data Creation, Verification and Integration
• Models, Models, Models!
• Unlocking Powerful Data for Diverse Business Needs
• Super Models!
• Using Advanced Technical Tools for Deploying GIS and CAMA
• Learn from History, Prepare for Future
• Location Matters

GIS/CAMA 2016 Parcel Jeopardy

Featured Sessions:
• Perspectives and Encouragement on 20 Years from Pioneers, Mavericks & Renegades
• Land Records and GIS Integration: Has the Time Come?
• Building a Multi-Jurisdictional GIS: From Concept to Funding

Packed Exhibit Hall
Esri Hands-On Learning Lab
... and Optional Evening Ghost Tours!
What would you do if a pollutant in your office was killing $5,000 of profit this year?

What would you do if every single employee spewed forth that much pollution each year?

This pollutant called “Ineffective Communication” affects every employee and causes smog in your organization that prevents clear and concise communication while killing profits.

While most executives believe that communication is important, VERY few have ever tried to quantify their losses. Communication Smog causes an average loss of 40 minutes of productive time for every employee, every day, of every year; and that is just Category 1 Smog.

As the pollutant builds and thickens it can cause your organization significant damage.

Category 1 Communication Smog

If your company is like most, you operate in a continual state of Category 1 Communication Smog, and the typical employee will lose 167 hours of productive time per year.

At the 2015 average US salary, benefits and tax levels, that equates to $5,200 per employee per year.

Most people don’t realize the amount of time lost daily due to issues like:

• Seeking clarification
• Asking a question multiple times
• Resolving customer or employee conflicts
• Never-ending email threads
• Crisis management due to missed deadlines
• Re-work

The reason companies often don’t recognize the importance of these issues is that with Category 1 Smog the impact of each issue is too small to be noticed as a financial impact.

While this pollutant could be considered insignificant at the individual issue level, over the course of a year, a company with 20 employees is likely to lose over $100,000 of productive time.

At this level it takes a good breeze of education and coaching to clear the air, regain that productive time, and prevent further pollution.

Category 2 Communication Smog

As ineffective communication pollution continues to be added to your environment, the Smog thickens, covering more of your organization. The impact increases, and now becomes visible on your financial statements.

In addition to all of the Category 1 impacts, you start experiencing:

• Lost sales and customers
• Increased marketing, customer acquisition and customer service costs
• Increased staff turnover, hiring and training costs
• Decreased operational continuity

In Category 2 Communication Smog, the following symptoms appear regularly:

• Sarcastic and negative comments emitted towards customers, employees and management
• Employees resistant to raising issues in any forum
• All levels of staff operate in a CYA (cover your assets) mode
• Lack of faith in the team and the organization

When you have Category 1 Smog, a good breeze of education and coaching will clear the air but when you reach Category 2, you are going to need gale force winds.

At this level of dysfunction, the cost, time, resources, and organization discomfort required to correct the issue is exponentially greater than Category 1.

Category 3 Communication Smog

Left unattended, Communication Smog will continue to build and the Communication Smog surrounding your team will become so thick that serious financial impacts will be felt.

When communication problems are allowed to evolve to Category 3, the smog becomes so thick that issues escalate and have a high financial impact. You will observe:

• Prevalent sarcasm and negativity
• Inappropriate comments about customers and management
• Conflicting objectives within management
• A complete breakdown of trust and communication
• High employee turnover
• Legal costs skyrocketing due to escalating issues
• Large-scale customer defections
• Loss of reputation

continued on page 8
Communication Smog continued from page 7

Picture the air in a post-apocalyptic Sci-Fi movie; that grey, murky sky, with people scurrying around in the shadows. That is the environment in your company when you reach Category 3 Smog.

The Category 3 Smog is going to require hurricane force winds to clear the air.

Success will be difficult without significant management changes, and a wholesale cultural change.

Don’t think it could happen to you?

Ineffective communication is a slippery slope that left unattended can grow silently until one day you are losing valued customers.

When surveying business owners and executives, concern is warranted as they report that:

• Communication skills are a critical part of their long term success
• Virtually none measure the impact of ineffective communication
• Very few have a comprehensive plan to develop this critical skill

How can something that has this big of an impact on business, get so little attention?

The Fix –Clearing the AIR
Whether you are like most companies and facing a Category 1 Communication Smog or a larger threat to your business, there comes a time where your success will require you to get rid of the smog, and clear the air allowing clean and concise communication to work it’s magic.

To clear the AIR, simply remember, Acknowledgement, Identification, and Remediation.

Acknowledgement – The first and often hardest step in clearing the air is the acknowledgement of the problem, and that it impacts EVERYONE in the organization.

In order for any plan to be successful, ALL levels of management must agree that communication is important and that everyone has room to improve.

Once there is true acknowledgement that Communication needs to be addressed you can move to the next step.

Identification – In order to maximize the results from any remediation plan, it is critical that the highest impact communication problems be addressed first. To properly assign priority, an assessment should be done that evaluates communication based on:

• Job title/position
• Duration of service with the company
• General categories of communication
• Common communication issues

Based on the assessment, you can now begin developing a remediation plan that will get you maximum gain quickly, and start clearing the air.

Remediation – Your remediation plan should focus on the processes and skills required to create an environment for clear and concise communications.

By launching initial elements of the remediation plan on high target areas, you are able to quickly gain the momentum and create a ripple effect that will be required to flush the pollution and the smog from your environment.

A common sequence of learning priorities is:

• Establishing a habit of having a clear intention when communicating
• Using the “You Focused” presenting (maintaining a focus on the needs of the other to ensure clear communication)
• Developing and delivering messages with clarity
• Enhancing your message with improved presentation skills
• Learning how to formulate and ask powerful questions

Take an intentional approach to communication skills throughout your organization and you will create a clean air environment where communication flows freely and effectively.

You have accounting professionals making sure your money and finances are taken care of and legal professionals keeping you out of trouble. Make sure you have a professional on your team making sure you are not falling victim to Communication Smog.

ABOUT THE AUTHOR:
Mark A. Vickers is a Certified Professional Coach, and Certified World Class Speaking Coach. Mark is a communications consultant focused on helping you and your organization improve performance through improved communication and speaking skills. He is known as a creative author and speaker, and for creating the Communications Challenge, an objective way to measure communication effectiveness. For more information about Mark and his programs, please visit: http://speakingisselling.com/.
How did you get into GIS?
I became interested in GIS shortly after taking a human geography class my sophomore year of college. Visualizing data geospatially and being able to build databases capable of spatial analyses really struck me as powerful. Once I got into raster data, LiDAR processing, and remote sensing, I realized how this new way of thinking could be applied to statistics and engineering—I was sold.

How long have you been working for your current employer? / What is a typical work day for you?
I have been working as a GIS professional for eight years and have been with the City of Raleigh just over two and a half years. In a typical workday I may be doing anything from developing project ranking analyses to building models, from calculating cost and impacts of transportation projects to posting maps in ArcGIS Online for the public to view. I previously worked for an engineering firm and the City of Danville, VA.

How do you see your GIS career developing?
I see myself becoming a very capable analyst both as I improve my skills to more and more accurately represent real world inventories, and as I am exposed to newer and better analysis methods and lessons learned. My career path is that of a technical analyst.

If you weren’t doing GIS, what would you do?
If I were no longer doing GIS work I would seek a position where I would be able to spend most of my time outside in nature. I would consider something with the state or national park systems.

More about me: (hobbies, family life, etc.)
I moved to the Raleigh/Durham area after college to follow my wife who attended graduate school at Duke University in Durham, NC. My wife Kirsten and I now have a 10-month old daughter Valerie, along with our dog Hero and our cat Misty. In our free time we like to travel and I am an avid homebrewer.

Need to Earn GISP Certification or Renewal Points… or do you simply want to share some ideas?
Write an article for THE GIS PROFESSIONAL! We publish six issues each year and are always happy to consider new contributors and content. Send an email to Wendy Nelson with a brief description of what you’d like to write. Articles typically range from 1,000 to 3,500 words and hi-res graphics and images are encouraged.
URISA Adopts New and Improved Organizational Structure

A number of esteemed URISA Past Presidents (Dianne Haley, Glenn O’Grady and Ed Wells) and current Board member, Kevin Mickey, dedicated several months this year to updating URISA’s Bylaws and Policy Manual. URISA’s Board of Directors had considerable input along the way and both of these core documents were recently approved and adopted by the URISA Board of Directors. There was also a thorough review of the documents by URISA’s legal counsel.

URISA is pleased to introduce this streamlined organizational structure.

Within the Policy Manual, each committee’s Purpose and Scope, Membership and Chairmanship, and Committee-specific Policies and Procedures are detailed.

There was a URISA Committee Coordination Meeting on Sunday afternoon in Spokane and Committee Chairs are currently detailing their 2016 work plans. A comprehensive Call for Volunteers will be distributed to members in November to gear up for an active 2016.

Volunteers are at the heart of our work. We can provide exceptional experiences, a vibrant community, and essential tools—only as a result of the time and knowledge volunteered by members like you, who serve your colleagues and further the geospatial profession. We need your skills, passion, and perspectives to build a vibrant, inclusive, and diverse corps of volunteer leaders. We realize that work and family responsibilities come first, so volunteer time commitments vary widely.

Stay tuned. We’re excited about 2016!
Readings for the Applied Research Seminar, Mining U.S. Federal Agency Materials for GIS Nuggets

Dr. Barry Wellar
Director, GIS Retrospective Project
Principal, Wellar Consulting Inc.
Professor Emeritus, University of Ottawa

"Mining U.S. Federal Agency Materials for GIS Nuggets", published in the May-June 2015 issue of The GIS Professional, is an overview of the GIS Retrospective Applied Research Seminar, 2016 Esri Federal GIS Conference, February 24-25 in Washington, DC. The overview notes that the seminar design includes several background reports. The most recent of those reports, Background Readings for the Applied Research Seminar: Mining U.S. Federal Agency Materials for GIS Nuggets, posted in August 2015, is the subject of this article.

ARTICLE OBJECTIVE

One of the seminar design specifications is stated as follows:

“Provide a body of reading materials in advance of the seminar so that attendees can properly prepare for the presentations and discussions. And, conversely, presenters can reasonably assume that interested parties have internalized the reading materials, and they can therefore design their presentations accordingly.”

In addition to assisting presenters and attendees, it is expected that the readings will also be useful for anyone examining presentations and related materials which are posted online.

The purpose of this article is to outline the design and contents of the reading list, and to invite readers of The GIS Professional (TGP) to suggest additional references.

It is my experience that TGP readers are very knowledgeable about materials published by federal agencies regarding GIS technology, GIScience methodology, and the uses of GIS technology and GIScience methodology. As a result, I seek their assistance in expanding the list of references on why and how to use the retrospective approach to mine federal agency materials for GIS nuggets.

Towards that end, I begin by briefly discussing the background of the reading list project. Rather than going into what could be unnecessary detail for some readers, links to pertinent materials are provided. This reduces the length of the article, while enabling readers who wish to “dig into the details” of reading list design and process to do so.

These remarks provide context for the invitation to readers to suggest additions to section D of the seminar reading list.

READING LIST DESIGN
Four bodies of literature comprise the initial reading list which can be viewed at http://www.wellar.ca/wellarconsulting/SeminarReadingList.pdf:
1. Papers prepared for AutoCarto Six Retrospective (section A);
2. Papers and slides presentations prepared for the Research Colloquium on Using the Retrospective Approach to Mine for GIS Nuggets (section B);
3. Retrospective project papers published in the International Journal for Applied Geospatial Research (section C); and
4. Publications from academic, government, professional organization, and other sources to supplement the AutoCarto Six Retrospective papers, and the colloquium papers and slide presentations (section D).

The rationale for each body of materials is summarized as follows.

AutoCarto Six Retrospective Papers
Authors re-visited papers which they wrote 30 years previously for the 1983 AutoCarto Six Symposium. As a group the authors represent career leaders in advancing GIS technology, GIScience methodology, and the uses of the technology and the methodology, and their papers are significant contributions to research on using the retrospective approach to mine the literature for GIS nuggets.

In addition, many of the papers deal with U.S. federal agency activities 30 and more years ago, as well as more recently, in the realms of GIS technology, GIScience methodology, and their uses.
Research Colloquium Papers and Slides

Papers, slides, and discussions examine the practical value of undertaking the GIS retrospective research program, and suggest a number of alternative future directions and projects.

Pertinent themes covered include: parameters of such a program; challenges and opportunities inherent in retrospectively searching for nuggets in a field marked by rapidly-changing technology; developing a culture of respect for the relationship between original and derivative research; incorporating the past-present-future connection in published GIS- and GIScience-related works; and, expanding from the colloquium format to the seminar format to engage more participants.

The colloquium materials – papers, slide presentations, discussions – provide a rationale for continuing the GIS retrospective program, and for having the seminar as part of the 2016 Esri Federal GIS Conference with its focus on federal agencies. And, more specifically in our case, the colloquium materials contribute directly to the design of the report, Seminar Guidelines for Presentations which can be viewed at http://www.wellar.ca/wellarconsulting/SeminarPresentation-Guidelines.pdf.

GIS Retrospective Publications in International Journal for Applied Geospatial Research

The International Journal of Applied Geospatial Research has published two GIS retrospective articles, and a third article has been accepted for publication in the first issue of 2016. Publication details are as follows:


The first two papers may be instructive for those wishing to know more about why the retrospective approach was used to re-visit papers in the proceedings of the AutoCarto Six Symposium, and how that experience could be applied to similar retrospective reviews, commemorative events, etc.

The purpose of the compendium of ideas paper is to prompt and encourage applied research on using the retrospective approach to mine for GIS nuggets. Further, the compendium idea itself could be the subject of substantive discussions, including those by agencies participating in the seminar.

GIS and GIScience Retrospective References Resulting from Solicitations, Surveys, and Literature Searches

The three bodies of material summarized above are context for the papers in this section of the reading list.

Approximately 80 productions by authors from academic, government, business, and professional organizations have been identified as a result of contacts with advisors, responses to posted or published GIS retrospective productions, surveys of experts, and keyword-based searches.

The references in section D are organized chronologically, which respects the retrospective research emphasis on searching for GIS nuggets contained in previous contributions to academic, government, business, professional organization, and other literatures. Further, the chronological approach serves tracking back from derivative publications to original publications in the process of mining for GIS nuggets. Then, following bibliographic convention, the within-year references are organized alphabetically.

For design reasons, including those of time and resources, the posted reading list is illustrative and indicative rather than comprehensive and directive. Or, to re-phrase, we wanted to get a preliminary/trial run list on the board as soon as possible, with the option of adding more references as circumstances permit.

Having achieved the project requirement of providing a reading list that assists seminar presenters and attendees, as well as viewers of online materials provided by agencies, we are launching a modest outreach program by inviting contributions to expand section D of the reading list.

It is emphasized in concluding this section that no claim is made about being exhaustive in the reference compilation process. Indeed, it is acknowledged that errors of omission were likely made by missing important contributions to the literature, and readers are assured that their assistance in correcting such oversights at the earliest moment will be very much appreciated.

CONTRIBUTIONS INVITED FROM TGP READERS

TGP readers are well-informed about federal agency publications regarding GIS technology and GIScience methodology (methods, techniques, and operations), and they are especially well-informed about agency materials dealing with the uses of GIS technology and GIScience methodology for legislative, policy, program, planning, and operations purposes. As a result, we eagerly await suggested references that serve discussions about why and how to use the retrospective approach to mine federal agency materials for GIS nuggets.
With regard to topics and candidate publications of retrospective research interest, they are illustrated by entries in section D of the existing reading list, as well as by entries in sections A, B, and C.

And, further topics and candidate publications of interest may be suggested by the report, *Seminar Guidelines for Agency Presentations*.

By way of brief comment on this report, the guidelines for agency presentations could prompt a reader to think of a pertinent reference, or multiple pertinent references, to add to section D. Guidelines 2-5, which could assist in recalling references, are included here for the convenience of readers:

2. *Describe in general terms why your agency’s materials should be examined for GIS nuggets.*

3. *Provide examples of GIS nuggets that your agency has discovered over the years by mining what your agency had previously published.*

4. *Provide examples of GIS nuggets that have been brought to the attention of the agency by others who have mined agency materials.*

5. *Provide examples of nuggets that your agency has discovered over the years by mining what other agencies had previously published.*

With regard to conditions for submitting suggestions, they are limited in number and nature. First, for practical reasons our emphasis at this time is on published works which are available in digital format, but references to print material are also invited,

Second, in the interests of efficiency, and to reduce risk of citation errors, full details are required for proposed additions so that suggested references can be readily accessed for examination, and the provided information directly incorporated into the update via copy and paste. References in section D provide models of formats used for a variety of publications.

I emphasize in closing that assistance in expanding the reading list is greatly appreciated, and thanks are given in advance to those who contribute to the enterprise.

Comments or questions about the Applied Research Seminar, Mining U.S. Federal Agency Materials for GIS Nuggets, may be sent to: wellarb@uottawa.ca.

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**Make plans to participate in the URISA Leadership Academy in 2016**

**Five Days of Targeted GIS Leadership Training...Taught by GIS Leaders**

**ULA 2016**  
**August 1-5, 2016**  
**Chicago, Illinois**  
**Register by December 31, 2015 to save $$$**

“Most of us spend a good bit of time and effort to hone and update our technical skills as we progress in our GIS careers. We take classes on how to build GIS databases or geocode addresses or maintain parcels or create python scripts and so on. We work in a technology driven field so it makes sense we place our focus on these types of skills.

That is until you find yourself managing a project or team or department. Then all that technical training only covers a portion of what we are required to deal with. Suddenly you are having to develop budgets, calculate ROI, handle HR issues and so on. All of these your technical training has not prepared you for. The ULA is a great program for overcoming that gap many of us have in our education and unlike other management training programs it was built by GIS Professionals who know our industry and the issues we face.

I hope everyone will take advantage of this great opportunity URISA is providing and attend the ULA. I really wish this had existed when I first moved up into management.” - Tripp Corbin, MCP, CFM, GISP, Chief Executive Officer, eGIS Associates, Inc.
Welcome New URISA Members

Merlin Anderson, GISP—US Army—Evans, GA
Ali Baqi, GISP—The World Bank Group—Rockville, MD
Michael Barretto—Singhofen & Associates Inc.—Orlando, FL
Tracie Bishop, GISP—University of Maryland Eastern Shore—Princess Anne, MD
Gary Bowles—Pittsburgh, PA
Sarah Bradly—Fairfax, VA
Mary Bullington, GISP—City of Gainesville—Gainesville, FL
Jeanette Byrd—Peterson, AL
Scott Campbell, GISP—U.S. Army Corps of Engineers—Seattle, WA
Sara Cassidy, GISP—Dewberry & Davis—Fairfax, VA
James Cherry, GISP—Drummond Company—Huyetown, AL
David Clark, GISP—Chicago Metropolitan Agency for Planning (CMAP)—Oak Park, IL
Carson Coates, GISP—Stoller Newport Nuclear—Broomfield, CO
Matthew Conrad, GISP—AECOM—Rancho Santa Margarita, CA
Lane Cooper, GISP—SNC Lavalin—St. Denis, SK Canada
Djalil Dahaoui, GISP—Harris County Flood Control District—Cypress, TX
Alex Dale, GISP—Weston Solutions Inc—Honolulu, HI
Matthew Deal—Singhofen & Associates Inc—Orlando, FL
Frankie East, GISP—Computer Science Corporation—Amiscoville, VA
Jacquie Fallon—Seattle, WA
Jon Foster, GISP—Dewberry—Ashburn, VA
Joann Fox—Edmonton Police Service—Edmonton, AB Canada
Brian Gacke—Singhofen & Associates Inc—Orlando, FL
Gretchen Gorecki, GISP—Marstel-Day, LLC—Bumpass, VA
Kelly Hanson—Kingsley, MI
Pamela Hoskins, GISP—Pennsboro, WV
Jeremy Jenkins—Liberty Lake Sewer and Water District—Liberty Lake, WA
Charles Johnston—New Orleans, LA
Leah Jones, GISP—Matanuska-Susitna Borough—Palmer, AK
Susan Kamel—University of Southern California—Los Angeles, CA
Pamela Kanu, GISP—Fugro GeoConsulting Inc.—Friendswood, TX
Indra Sharan KC, GISP—USAID/Nepal—Mahanagunj, Kathmandu Nepal
Alfred Kesler, GISP—Southern Geomatics Services, LLC—Madisonville, LA
Bradley Kruse—RS & H—Atlanta, GA
Kayla Kruse—Spokane, WA
Amol Kulkarni, GISP—MWH ResourceNet India Pvt. Ltd.—Pune, Maharashtra India
Jeremy Kulm—Coeur d Alene, ID
Chi-Chung Lai, GISP—LoyaltyOne—Toronto, ON Canada
Brian Lam—Seattle, WA
Spencer Larson—Dewberry LLC—Fort Hunter Liggett, CA
Lucy Lee, GISP—BGC Engineering—Vancouver, BC Canada
Thomas Lynch—Manahawkin, NJ
Douglas MacFarland—Beavercreek, OH
Chad Mahoney, GISP—Green Power Labs Inc.—Dartmouth, NS Canada
Blake Mailhes, GISP—CH2M Hill—Virginia Beach, VA
Jaime Marhevsky, GISP—US Army—Harrsville, NY
Christopher Martin, GISP—Matrix Design Group—Denver, CO
John Max, GISP—Washington County, UT—St. George, UT
Emmanuel Menegbo, GISP—Rivers State College of Arts & Science—Port Harcourt, Rivers, Nigeria
Alexei Menshikov, GISP—Cenovus Energy—Calgary, AB Canada
Sharon Metzler, GISP—San Mateo City Fire—Baltimore, MD
Megan Miranda, GISP—ARCADIS—Lewis, OH
Brian Mueller—Lenexa, KS
Ryan Nolet, GISP—PACE Engineering—Bellevue, WA
Megan Ornelas, GISP—Felsburg Holt & Ullevig—Centennial, CO
Christopher Park—Brighton, CO
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Hexagon Geospatial helps you make sense of the dynamically changing world. Hexagon Geospatial provides geospatial technology products and platforms to our customers, channel partners, and Hexagon businesses.

### Gold Corporate Partners

### Cyclomedia Technology, Inc.

1250 I-Newell Ave., Suite 160
Walnut Creek, CA 94596
Phone: 800-790-3652
Email: usa@cyclomedia.com
www.cyclomedia.com
www.thedrivingdutchman.com

Cyclomedia is the market leader in systematic imaging of large-scale environments from cities to complete countries. Cyclomedia’s smart imagery solution creates Cycloramas – 360-degree panoramic photos – with high accuracy, providing current and clear views of street-level environments.

The Cyclomedia recording system is like no other. It uses patented technology to determine the exact position and orientation of every picture taken. By creating a dense network of geometric street images, Cycloramas are always focused on the correct address or feature from multiple vantage points.

Our solution revolutionizes the way asset and property assessment is managed and reported. It reduces field visits and provides accurate feature measurements with convenient spot-checking. It simplifies maintenance and enables automated inventory and controlled processes. It also saves valuable resources while simplifying the decision-making process, improving operations and increasing efficiency.

We provide ready-made solutions throughout Europe, North America, and Asia. Our technology is widely used in government GIS, public safety, and security markets, as well as in construction, infrastructure management, and insurance.

We provide a full range of services related to 3D mobile mapping. Data is captured and delivered worldwide.

Our primary market segments include:
- Property Taxation, Appraisal, and Building Inspection
- Transportation and Infrastructure Management
- Public Safety and Homeland Security
- Engineering and Construction Planning

Cyclomedia offers the following licensed products:
- Content
- Cycloramas – Seamless, accurate 360° panos taken at street-level with our patented recording technology.

### Platinum Corporate Partners

### Cycloramas

Cycloramas – Seamless, accurate 360° panoramic photos are taken at street-level with our patented recording technology.

- The Cyclomedia recording system is like no other. It uses patented technology to determine the exact position and orientation of every picture taken.
- By creating a dense network of geometric street images, Cycloramas are always focused on the correct address or feature from multiple vantage points.
- Our solution revolutionizes the way asset and property assessment is managed and reported.
- It reduces field visits and provides accurate feature measurements with convenient spot-checking.
- It simplifies maintenance and enables automated inventory and controlled processes.
- It also saves valuable resources while simplifying the decision-making process, improving operations and increasing efficiency.

We provide ready-made solutions throughout Europe, North America, and Asia. Our technology is widely used in government GIS, public safety, and security markets, as well as in construction, infrastructure management, and insurance.

We provide a full range of services related to 3D mobile mapping. Data is captured and delivered worldwide.

Our primary market segments include:
- Property Taxation, Appraisal, and Building Inspection
- Transportation and Infrastructure Management
- Public Safety and Homeland Security
- Engineering and Construction Planning

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### Silver Corporate Partners

### Data Transfer Solutions

3680 Avalon Park Blvd East, Suite 200, Orlando, FL 32828
Phone: (407) 382-5222
aibaugh@dtsgis.com

Headquartered in Orlando, DTS is a leader in asset management, geographic information systems, and transportation planning. We specialize in creating solutions to help clients automate their worlds, reduce their workload and organize their data through customized technology.

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2015 Partner Directory (continued)

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patrickc@bluemarblegeo.com

For over two decades, Blue Marble Geographics has been at the forefront of the GIS data processing software business. Pioneering work in geomatics and spatial data conversion quickly established this Maine-based company as a key player in the GIS software field. Today GIS professionals are turning to Blue Marble for Global Mapper a low cost, easy to use yet powerful GIS software tool that everyone can afford and use. Blue Marble is known for coordinate conversion and file format expertise and is the developer of Geographic Calculator, GeoCalc SDK, Global Mapper and Global Mapper SDK.

**North West Group**

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Phone: (403) 295-0694
info@nwgeo.com

Part of Hexagon, North West Group is comprised of North West Geomatics Ltd. (NWG) and Valtus Imagery Services. NWG is a leading aerial data acquisition company, dedicated to producing high-quality digital aerial imagery and related spatial data, while Valtus provides an easy and reliable storage, management and distribution solution for imagery data.

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As a leader in GIS/IT, Environmental Solutions, Engineering, and Surveying, VESTRA has the depth of know-how and experience to help clients achieve success. VESTRA, an employee-owned corporation dating back to 1988, prides itself on our local presence and commitment to the community. Our mission is to be our clients’ most-valued consultant by providing cost-effective, innovative, and technically superior project solutions. Whatever your current or future needs, VESTRA’s full-service resources are available to support you on your next critical project.

**geographIT**

geographIT® offers the depth of experience, insight, and innovation that only comes from more than two decades of GIS consulting, custom software development, and system integration projects successfully completed for state and local governments, utilities, transportation, and law enforcement sectors. Technologies have changed significantly since the early days of GIS, allowing for tightly coupled GIS/IT system integration, deployment on multiple platforms, and quicker implementation of cost-effective solutions. Founded in 1990 as Advanced Technology Solutions Inc., we were a pioneering GIS consulting company in Pennsylvania when GIS commercialization was still in its infancy. We rebranded as geographIT in 2007 to highlight our comprehensive and competitive offering of geospatial services
GeoTechVision

With offices in Kingston, Jamaica (876-970-5686) and Georgetown, Guyana (592-227-0433), GeoTechVision focuses on “Delivering Value through Innovative Solutions!” We have been assisting Caribbean Businesses, Agencies and Government Ministries to develop and effectively use spatial intelligence in critical decision making! We are very involved with establishing Geographic Information Systems, GPS and Mobility products and solutions, as well as marketing our own “GeO” brand tablet. We consider Human Capacity Building as very critical - right from the classroom to the work environment. Hence our Classroom Management Solution and our strong focus on Training and Development in all our engagements. Our other consulting services include Project Management, Information Security Advisory, Process Audit and Assurance, Business Analysis and Enterprise GIS solution planning and implementation.

MGP

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MGP is an information systems services company that specializes in geo-spatial solutions. Our comprehensive range of geographic, data modeling, and business process solutions provide you new opportunities to find a better way. We believe that innovation creates opportunity and collaboration breeds success. MGP was formed as a shared business model in which clients are partners. This philosophy enables significant cost savings and makes it possible for any client, regardless of size, to get to where they need to go. MGP is the managing partner of the GIS Consortium.

Open Spatial Corporation

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(800) 696-1238
info@munsys.com
Contact: Colin Hobson

Open Spatial is a multi-national company delivering geospatial solutions based on Oracle and Autodesk technologies. Recognized for delivering applications to government and utility sectors, our solutions are based on internationally accepted open standards and world-class best practices. Open Spatial offers innovative spatial infrastructure solutions to managing spatial data from survey through to design, construction and ongoing spatial data management. Our clients efficiently manage cadastre, water, wastewater, stormwater, roads, electric and fiber networks.

Planning Communities, LLC

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Planning Communities, LLC provides a wide range of multi-disciplinary planning services for local, state and federal agencies, tribal nations and community organizations. Community, transportation, environmental and GIS services include local/regional planning, visioning/scenario planning, land use, socioeconomic, market and cost-benefit analysis, community asset mapping, tool/application support and development, process improvement/integration, consensus-building and facilitation.

Headquartered in Raleigh, North Carolina, Planning Communities has additional offices in Charlotte (NC) and Seattle (WA). Planning Communities is a North Carolina certified Small Professional Service Firm (SPSF) and is certified as a DBE in North Carolina, Tennessee, Florida and Delaware.

Temporal Geo Analytics

P.O. Box 181431
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info@TGAmaps.com

Temporal Geo Analytics, Inc. (TGA) is a Land Use and Environmental Litigation consulting firm. We have expertise in using Geographic Information Systems (GIS) to develop, manage, and distribute complex spatial databases, as well as creating the presentation-quality visualizations and graphics needed for natural resource litigation and land use projects.

TGA specializes in the analysis of multi-faceted land use issues and environmental impacts over time. TGA is expert at acquiring and integrating historic and current spatial data to build the critical information you need to represent your case.

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Sani - International Technology Advisors Inc. (SANI-ITA)

Sani - International Technology Advisors Inc. (SANI-ITA) is a privately owned Canadian company with its head office located in Ontario. The Corporation is a business partner and reseller of BAE Systems Geospatial exploitation Products (GXP), TerraGo GeoPDF products, ImageSat products and Leica Geosystems products.
Leveraging GIS for Environmental, Natural Resource, and Land Use Planning is our core expertise. Geographic Information Systems (GIS) integrate and overlay unlimited layers of themed spatial and tabular data to illustrate and reveal patterns, context, and the intrinsic qualities of any location. A GIS is also a powerful analysis tool capable of querying data for location and its relationship to overall context. At TGA, we have an intimate understanding of these tools and their capabilities.

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Wellar Consulting services include design and evaluation of education and training courses and curricula for GISystems and GScience programs; advice and workshops on the development of quantitative measures to assess information system and transportation system performance; critical reviews of IS and GIS RFPs; seminars on the safety and security aspects of interdependent infrastructures; professional opinion on land use planning and zoning issues; and, expert opinion on liability for safety-related incidents involving pedestrians, cyclists, and motor vehicle operators.

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- Graduate Certificate in Geospatial Leadership

**University of Washington Tacoma, Urban Studies**  
- Master of Science in Geospatial Technologies  
- Certificate in Geographic Information Systems (GIS)

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**September 5-8, 2016**
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