

THE SUMMIT

News From and For The Washington GIS Community

WAURISA

The Washington State Chapter of
The Urban & Regional Information Systems Association



SPRING 2007

WWW.WAURISA.ORG

ISSUE 7

GIS AT THE CITY OF BOTHELL: YESTERDAY, TODAY & TOMORROW

By Daryn Brown, GISP

The City of Bothell was originally incorporated in 1909 and currently has a population of 31,690. The City is roughly 12 square miles and is located in the central Puget Sound Region, approximately 12 miles northeast of Seattle. Our community lies in a natural environment composed of steep hills, streams and wetlands. The Bothell area is experiencing record growth comprised of diverse commercial, office, educational and residential land development.

Bothell GIS Then...

The City first acquired a rudimentary 'GIS system' in 1989 when the Public Works Department hired a private consultant to compile the City's water and sewer utility infrastructure. The result of this project was an AutoCAD based utility data set with a 'live-link' to D-base data via a utility named A-base; pretty 'cutting edge' for then. Meanwhile, the Department of Community Development began its own GIS based efforts such as converting hard copy zoning, comprehensive plan and environmental datasets to AutoCAD format.

In 1998, the City's GIS endeavors were formalized with the creation of the GIS Section, a multi-service work unit responding to citywide departmental GIS needs. The initial years were devoted to consolidating and aggregating like datasets into a centralized data repository. At that time, there were roughly 250 GIS data layers being maintained for city business needs.

In the early 2000's the GIS Section began converting and utilizing the ArcGIS platform to enable more robust data management and analysis.

See: *City of Bothell GIS*, Page 5



ALSO IN THIS ISSUE:

Making the Washington State Highway Map	p. 2
State Survey Control Layer Research	p. 4
US Census Bureau LUCA Program	p. 4
Karl Johansen Interview	p. 6
2007 Washington GIS Conference	p. 9
WAURISA Treasurer Steve Schunzel	p. 12
WAURISA Sponsors Page	p. 13
Editorial Page	p. 14

PRESIDENT'S COLUMN

In our President's absence, I have been asked to provide a few words for this month's issue of The Summit. Not to worry, Rick will be returning to us just as soon as he gets back from his honeymoon. In the meantime, I, along with several Washington URISA members, were lucky enough to attend Rick and Michelle's wedding. Afterward, on the drive home, I had to reflect for a moment on what a wonderful group of people this association allows us to be a part of. The relationships created here span the years, and the affiliation of friends and acquaintances the miles.

That being said, we are rapidly approaching the 2007 Washington URISA Conference and the end of another President's term. When we look at Rick's time in that position, we have to acknowledge and commend his accomplishments. Whether you are talking about the success of the winter workshops or the national recognition we received as Chapter of the Year, Rick's time in office has been immensely successful and he deserves a warm thank you from all of us for his efforts over the last two years. Our nomination committee has already begun the process of identifying a new presidential candidate to lead us into the future.

However, I believe Rick would agree that none of what he's accomplished in the last few years could have been possible without the help of volunteers and members at large. Several Board positions will be left vacant at the end of this term, and now, more than ever, we need your participation.

In the future, Washington URISA hopes to bridge the gap that separates Eastern Washington from Western Washington, and to build a network of educators and professionals to support and encourage student affiliation through intern and scholarships programs. We will need to reach beyond the boundaries of our field and embrace an audience of IT professionals, systems integrators, and designers. Some might say that WAURISA has reached the pinnacle of its success, but I would disagree. We have a long way to go, and we can't get there without you. So attend the 2007 Conference, support the scholarship program, and participate on the Board. Share what you can, whether your time, resources, or knowledge.

Help us make Washington URISA an even greater success, and in return, your affiliation with your fellow members will benefit you personally and professionally for a lifetime.

I hope to see you at the Conference,

John Joseph, Vice President
WAURISA



MAKING OF THE 2006-2008 WASHINGTON STATE HIGHWAY MAP

WSDOT's 2006 Highway Map Highlights Interstate's 50th Anniversary

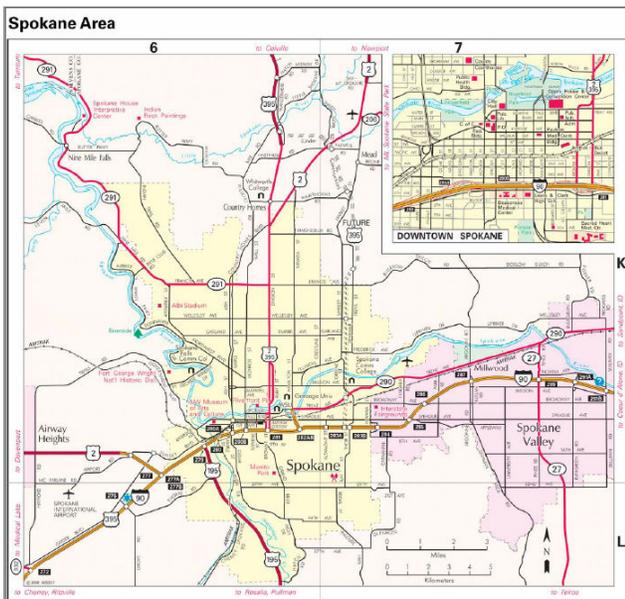
The Official Washington State Highway Map came off the presses in early June 2006. The 2006-2008 highway map is the "Interstate 50th Anniversary Commemorative Edition." 2006 marked the 50th anniversary since President Dwight D. Eisenhower signed federal legislation authorizing the Federal-Aid Highway Act of 1956, which provided a financing plan to build 41,000 miles of limited-access freeway across the nation. The official name of this highway system is the "Dwight D. Eisenhower National System of Interstate and Defense Highway."

1.2 million Copies Printed

The Washington State Department of Transportation produces one million copies of the state highway map every two years. This latest edition includes facts and trivia about Washington's Interstate Highway System. For instance:

- Washington's Interstate freeways are I-5, I-205, I-405, I-705, I-82, I-182, and I-90.
- The longest Interstate highway is I-90, which covers 3,020 miles, crossing 13 states between Seattle and Boston. Interstate 90 crosses: Washington, Idaho, Montana, Wyoming, South Dakota, Minnesota, Wisconsin, Illinois, Indiana, Ohio, Pennsylvania, New York and Massachusetts.
- At a length of 1.5 miles, I-705 is the shortest Interstate highway in Washington. It links I-5 with downtown Tacoma and with a 1990 opening is Washington's newest Interstate facility.
- The first segment of I-5 formally opened in Tacoma on December 21, 1960. The last temporary stop light was removed north of Everett in May 1969, marking the completion of I-5.

The maps are approximately two feet by three feet in size. Laid end-to-end, one million maps would stretch about 568 miles, the approximate distance along I-5 from Tacoma, Washington, to Redding, California.



Spokane Area Detail Map Showing Future US 395 Freeway Route



Mark Bozanich making notes on the 2006 State Highway Map.

A Tradition of In-house Design by WSDOT Professionals

With this latest edition, for the first time, the map was entirely digitally produced. WSDOT Graphic designer Chris Zodrow created the cover art and Cartographers Mark Bozanich and Taryn Lund were responsible for drafting most of the items found on the map. Zodrow merged the cover art and other graphic elements electronically with high resolution TIFF files and gave electronic files to the printer for each side of the map.

Bozanich's main role in the production of the map was the gathering of information that went onto the map. He does this through traditional sources, such as state highway contract plans, information from county governments through the County Road Administration Board, and by "good-old legwork". The new map incorporates changes due to construction in the state highway system and recreational areas. Some of these changes include:

- North Spokane Corridor— a dotted line indicates the path of the future US 395 freeway
- US 12, Tri-Cities area – a longer stretch of the route is shown as divided highway
- State Route 18, King County – more of the route is shown as freeway
- Near the mouth of the Columbia River – added the Lewis and Clark National and State Historical Park.

A local company, Cenveo of Tukwila, Washington, was responsible for printing this edition.

See: Washington Highway Map, Page 3

WASHINGTON HIGHWAY MAP

Continued from Page 2

Elements Of The Map

The map has 142 different data or information layers on each side. There are two reasons for splitting the data into different layers – color differences and data organization. Different colors must be on different levels therefore, red roads are on a different level than blue water. Shading of the same color must also be done on different levels. For example, the darker green tint for national parks is on a different level than the lighter green tint for national forests. In addition, cartographic elements, including points, lines, area fills and text all are produced on separate information levels.

The map was printed using a four-color process with the standard print ink colors cyan (bluish), magenta (reddish), yellow and black. Other colors, such as green are created on the map by printing two or more of the four colors on top of or along side of each other. If you look closely at the green tinted area of the map with a magnifying glass, you will see that there are small dots of cyan and yellow. These dot patterns are called screens. The shaded relief (hill and mountain shading) on the statewide side of the map (originally provided by the US Geological Survey and drawn by hand) is printed using screened black ink. For the 2006 edition of the map, the shaded relief was scanned and turned into an electronic file that was combined electronically with the rest of the map.



Cartographer Mark Bozanich (left) and Graphic Designer Chris Zodrow

Interstate 5 is the only Interstate highway that runs from Canada to Mexico. Built primarily in the 1960s, it is also the primary north-south route on the West Coast. Much of Washington's 276 miles of Interstate 5 follows the route of its predecessor, US 99. The first segment of I-5 formally opened in Tacoma on December 21, 1960. The last temporary stop light was removed north of Everett in May 1969, marking the completion of I-5.

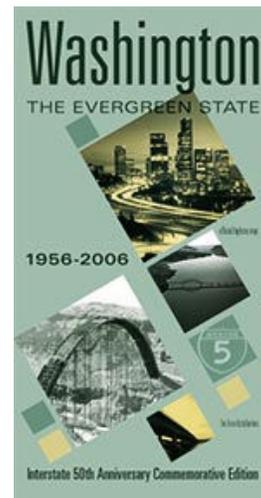
Washington is the western terminus of the nation's longest Interstate Route. Interstate 90 is 3,020 miles long, stretching from Seattle, Washington to Boston, Massachusetts and crosses 13 states. Much of the route through Washington replaced US 10, which was decertified as a US route in 1969.



The final 2006 State Highway Map ready to be printed



Checking color densities



A free copy of the 2006 State Highway Map can be ordered on-line through WSDOT's Web site (<http://www.wsdot.wa.gov/publications/highwaymap/order/>) or by calling 360.705.7279.

This article was first published on the WSDOT web site. Used with permission.



WASHINGTON GIS SURVEY CONTROL LAYER SURVEY RESULTS

By Tim Leach, GISP, University of Redlands

I am working on an MS in GIS at the University of Redlands. The Washington State Council of County Surveyors (WCCS) provides a free survey control database template in MS Access available for download at: <http://www.surveycontrol.state.wa.us/templates.htm>.

The WCCS allowed me to use of their template as a basis for academic study regarding incorporation of compatible layers within enterprise systems (GIS). As part of my research, I conducted an email based GIS SURVEY CONTROL LAYER survey. The raw results of the survey are summarized below.

About 50% of respondents were from City/County government combined, 8% from Utility, 8% from state, and 33% from private, planning, engineering services firms.

1. Do you use a parcel layer within your GIS?
92% use a parcel layer.
2. Do you use a survey control point layer in your GIS?
50% use a survey control layer.
3. Do you use a Public Land Survey Section layer in your GIS? (Township, Range, and/or Section, Quarter poly/line layer.)
92% use a PLSS layer.
4. Do you position geographic features in other layers based on the above?
67% position features based on the layers above.
5. Do you incorporate land surveys into your GIS base layers?
83% use land surveys to update their GIS base layers.
6. Do you use electronic copies of land surveys for updates (images)?
25% use electronic copies for reference to update.
7. Do you use CAD files of land surveys for updates?
67% use CAD files of land surveys for updates.
8. Do you produce maps at 1:1200 or 1:2400?
58% produce large scale maps.

If You Use Or Maintain A Survey Control Layer:

9. Do you use your own database design or did you use a standard? (Own/Standard)
16% use a standard. 33% use their own design.
10. If you use a standard please list type (Examples include: GCDB, WCCS, WA Cadastral Framework, City, County or State, Survey Analyst, GPS, Software):
8% WCCS, 8% WCF
11. Did you know the WCCS provides a free, downloadable Survey Control Database configured in Microsoft Access?
33% aware of the WCCS database template download.
12. What GIS software do you use? (ArcGIS 8.x 9.0 9.1 9.2 (ArcView ArcEditor ArcInfo) AutoDesk MapInfo Other)
All reported ArcGIS (AI/AE/AV): about 50% 9.2, 50% 9.1. (33% ArcView only)

Thanks to all who responded.

Tim Leach can be contacted at:
timothy_leach@institute.redlands.edu



2010 CENSUS LOCAL UPDATE OF CENSUS ADDRESSES PROGRAM

The Local Update of Census Addresses (LUCA) program is a Decennial Census Program that will provide the opportunity for state, county, local and tribal governments to review and update the Census Bureau's Master Address File and geographic database for the 2010 Census.

Why is the LUCA program important to your community?

An accurate population count starts with an up-to-date and accurate address list. Reviewing and providing updates will help ensure that individuals are counted and accurately located within your community, resulting in a more complete and accurate census. The quality of census data is important because billions of dollars in federal grant money for education, transportation, development and many other programs are distributed to state and local governments based in part on census data. This program will help improve the coverage and population count for your community.

What will the program involve?

- Promotional Workshops to learn more about the program: Spring 2007
- Technical Class Room Training and/or Computer Based Training: Summer 2007
- LUCA review period: Summer 2007 – March 2008
- Census processes and field verifies addresses: March 2008 – Summer 2009
- Review and opportunity to appeal LUCA feedback: Fall 2009
- Independent agency review and adjudication of appeals: Fall 2009 – January 2010.

Upcoming LUCA Program Information Sessions:

- Spokane: April 10 & 11; 1pm - 3pm
Spokane Downtown Library
- Moses Lake: April 12; 10am – 12 noon
Best Western Lake Front Hotel
- Tukwila: April 16; 1pm - 3pm
Tukwila Community Center
- Kelso: April 18; 10am – 12noon
Kelso Train Depot
- Yakima: May 1; 10am – 12noon
Yakima Downtown Library
- Kennewick: May 2; 10am – 12noon
Kennewick Library
- Walla Walla: May 3; 10am – 12noon
Wash. State Dept. of Transportation
- Mt. Vernon: May 8; 10am – 12noon
Skagit Commissioners' Hearing Room
- Tacoma: May 9; 1pm - 3pm
Grace Moore Public Library
- Olympia: May 10; 1pm - 3pm
Olympia Public Library
- Omak: May 22; 1pm - 3pm
Omak Public Library
- Wenatchee: May 23; 1pm - 3pm
Wenatchee Public Library

Where can I get more information?

<http://www.census.gov/geo/www/luca2010/luca.html> Or contact: Seattle Regional Office Geography Staff U.S. Census Bureau 206-381-6260; email: seattle.geography@census.gov



CITY OF BOTHELL GIS

Continued from Page 1

GIS Now...

Today, the GIS Section is actively converting ArcGIS .shp files, AutoCAD files and miscellaneous databases into the ArcGIS geodatabase environment. During the 2005-2006 budget cycle, utility conversion was a primary focus. The City's water, sewer, and street maintenance data were converted fairly seamlessly due to high accuracy origination data combined with enthusiastic Public Works maintenance crews. All of these geodatabase designs are created in order to accommodate Bothell's work flow and are flexible enough to incorporate advanced analysis systems such as pipe video imaging, asset condition ratings, and Geometric Network flow models.

Currently, a surface water geodatabase is being compiled. This complicated endeavor consists of the storm water infrastructure (detention systems, catch basins, culverts, etc.) combined with natural features (streams, wetlands, floodplains, etc.). This project is challenging City staff to discuss and reconcile overlapping intra-city responsibilities such as storm water field maintenance, water quality issues, and environmental regulations. These utility geodatabase conversion projects have increased the data from the original 176 attributes in 2004, to the current 1,188 attribute fields.



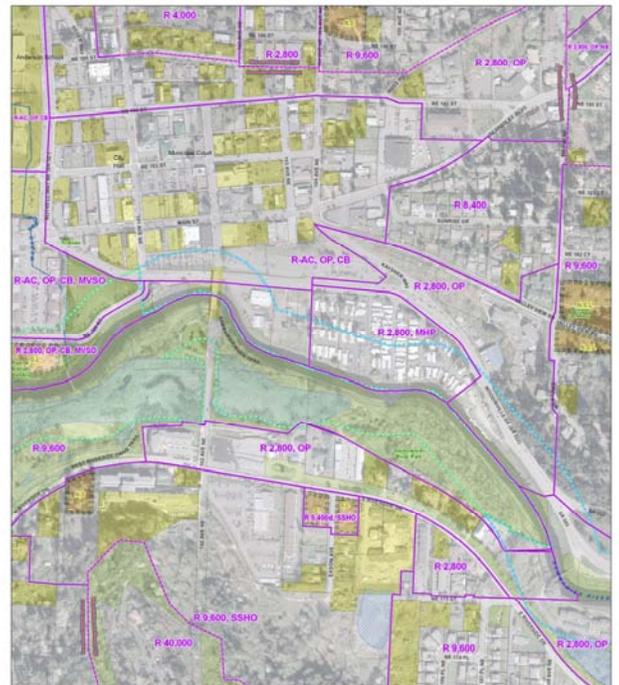
Bothell Public Works Utilities ArcGIS Map Template

A cadastral geodatabase project is also nearing completion. This project is extremely important for many reasons including standardized addressing and unified assessor's property information. A unique aspect is the fact Bothell is split in half by the King/Snohomish County line. Utilizing and integrating all forms of data from two different counties adds an interesting complexity to this endeavor.

Meanwhile, every month the GIS Section churns out dozens of GIS mapping and analysis projects for citywide departments. An electronic and hard copy address book is utilized by Police, Planning and Fire and Emergency Medical Services staff. A zoning atlas is utilized by Planning and Building staff, and detailed utility books are available for Public Works maintenance crews.

Geodatabase Conversion Lessons/Tips:

- ✓ Completely understand all your source data.
- ✓ Interested and enthusiastic staff creates more exciting end products.
- ✓ Well thought-out data dictionaries pay huge dividends in the long run.
- ✓ Meetings...the more you have with the end-user the better.
- ✓ Consider the data caretaker's maintenance needs at all phases; not after the fact.
- ✓ Carefully consider other software integration business needs.



Legend

Zoning Designations

City of Bothell Zoning Atlas
 Department of Community Development Zoning Atlas

Map 8 28 52

GIS in the Future...

For the remaining 2007-2008 budget, the GIS Section will focus on several key projects:

- GIS components of the overall Bothell Information Services Technology Plan, Egov initiatives, regional GIS browser, and emergency response planning.
- Launching all GIS data in a SQL Server/GIS Server environment.
- Deployment of high accuracy GPS field units to fill data gaps.
- Initial intranet GIS Server deployment.
- 'Fine-tune' and revise City of Bothell standards for private developer digital file submittals.
- Pursue private utility company data sharing opportunities.
- Scheduled aerial orthophotography, contour, and planimetric data collection.



For more information about City of Bothell GIS, contact:

Daryn Brown, GISP
 GIS Services Lead
 City of Bothell
 9654 NE 182nd, Bothell, WA 98011
 Ph: (425) 486-8152, x4450
 Email: Daryn.Brown@ci.bothell.wa.us



AN INTERVIEW WITH KARL JOHANSEN

Summit Interviewer Effie K. Moody

Summit: I understand you have been doing mapping work for quite some time. Can you give us some background in a nutshell?

Karl Johansen: I started my cartography obsession as an undergraduate at the University of Washington long ago which virtually rescued my lackluster academic career. My first job out of college was at the New York State Department of Transportation in Albany and I ended up at this highly energized cartography operation for over nine years. When I moved back to the Pacific Northwest, I returned to the UW Geography Department, this time as a member of the staff. My work since then has been evenly split between government and consulting assignments. I have learned a huge amount from my colleagues and mentors in all of these venues, as well as from professional activities with organizations such as WAURISA.

Summit: And you are currently a consultant? Doing what kind of GIS work?

Karl Johansen: Yes, I have my own practice, Port Madison GIS, on Bainbridge Island. I mostly do data development, GIS planning, and project management for a variety of small- to medium-sized cities, counties, utilities, and Architect/Engineering firms. In the data development arena, I actually enjoy, and seem to attract quantities of, cadastral, address-related, and utility work.

Summit: What is different about GIS consulting compared to similar assignments in a municipal agency or an academic institution?

Karl Johansen: Parts of it are faster moving, no question. There seems to be more diversity in the assignments as a consultant compared to agency staff. Being an outsider can be an asset as well as a liability when trying to add value to an organization's GIS initiative. Of course, consultants are both welcomed when their expert counsel is needed as validation, and also shunned as borderline parasites.

Summit: Does your company envision any interesting near or long-term GIS developments?

Karl Johansen: All the work we do is interesting; that is a basic requirement for any assignments we accept. Seriously...at some point I want to return to my earlier aspiration of high quality publication cartography on a variety of topics. There is a ton of subject matter out there and good data sets just waiting for such an opportunity.

Summit: Do you anticipate adding staff, and if so how will you advertise? Do you have any suggestions for those beginning their career in GIS?



Summit interviewer Effie Moody photographed Karl Johansen standing beside a copy of a very old map of Seattle on display at the Seattle Municipal Tower. The map predates the great Seattle Fire and was originally commissioned by the Library of Congress in the 1890's. It is one of four copies made and was found last year during an office move. Karl worked with the City of Seattle during the beginnings of their GIS systems and when he arrived at my office for the picture, immediately gravitated towards the map as any self respecting cartographer would do.
 —Effie Moody

Karl Johansen: I have utilized contract staff to date and that has worked satisfactorily. I expect to add one or two staff for assignments that are shaping up over the next year. The Central Puget Sound User's Group site seems to be an excellent clearing house for a variety of GIS topics including job and candidate searches. I would not presume to offer guidance to those entering this field other than to suggest being a good listener and tenacious about seeking out ideas and advice from leaders in the GIS field.

Summit: What kind of software have you utilized in your GIS work?

Karl Johansen: Let's see, there are some from the dark ages with names I have forgotten; others include AutoDesk, GeoSQL, most of the ESRI product line, and Intergraph/MicroStation. On several occasions, I have used two or three different software applications at once.

Summit: Can you share a few observations related to GIS "success factors" that might be of interest or value to your colleagues?

Karl Johansen: There are success factors that speak to an organization's superstructure, the technical side of GIS, the benefit/cost aspect of technology, and the keeping of GIS activity aligned with real business needs. I suppose the most prevalent observations I have had over the years are:

- 1) There is massive, unrelenting hard work that goes into the mapping sciences, which truly forms the underpinnings for everything that follows,
- 2) There is a multi-sided "people" piece which affects whether GIS either sinks or swims.

See: Karl Johansen, Page 7

KARL JOHANSEN

Continued from Page 6

Summit: Please explain those observations in greater detail.

Karl Johansen: The people piece means adequate staff resources in terms of numbers and skill levels, a governance structure that promotes good project planning and management, and policies that embody partnering and cooperation among stakeholders.

Where I have seen what appeared to be GIS successes, both the people and effort sides of things were in good shape, meaning adequate resources were being used wisely and steady progress was evident. Conversely, where these factors were weak, GIS seemed to be stagnant, struggling, or even fizzling out completely.

Summit: What about something you would do differently if you had it to do over?

Karl Johansen: Never, EVER allow a challenging GIS project to degenerate into a legal dispute: a colossal waste of time and money. Also, get smart early on about both the land survey and remote sensing areas of the mapping sciences.

Summit: Any predictions about the future of GIS, based on how it has grown over the last 30 years?

Karl Johansen: How about just the last five years! Some of us senior citizens are just now getting evolved from the good old days of cartography, and our GIS tools are almost changing faster than we can adjust. I predict this area will have a seamless regional GIS built to urban mapping specs, and maintained at the local jurisdictions. Field GIS will be ridiculously easy. 3D GIS will be everywhere. GIS use will be commonplace in the architecture, engineering, health, and business disciplines.

Summit: Following all the disasters of recent years, what, if anything has changed about the role of GIS, or your clients' use of it? Do you address this topic with them, or is it on their radar screen?

Karl Johansen: Other than agency staff who are specifically tasked with emergency preparedness roles – Eric Holdeman at King County is a good example – this topic seems not to be on people's minds much; this mystifies me. There is a long list of potential catastrophes, especially in this region, and GIS would be an obvious asset if designed properly. I try to encourage my clients to think big, get their base layers in order, develop key regional and interagency relationships and communications, and acknowledge that GIS is a critical part of any disaster game plan and needs to be funded liberally. I heard the coordinator for the Columbine (high school) incident once say that their response team was seriously hampered by weak map products and tools. Unfortunately, by the time it happens it doesn't help to say "I told you so."

Summit: Tell us one or two pivotal lessons you have learned from your experience in GIS? Also, are there any other words of wisdom to pass on to others?

Karl Johansen: Not words of wisdom, exactly, but

...

One, the whole data quality issue is a balancing act, but philosophically I come down on the high accuracy end of the scale; I have done and redone GIS data sets enough times over a lot of years that I can say with some conviction that it is cheaper to build it to an exacting spec at the start.

Two, I think part of being in this field is the freely sharing with our peers what we've learned, whether that is through a user group, teaching at the university, presentations, or community outreach. This takes time and commitment, of course, but the benefits of GIS don't get out to society as fast (or at all) without some effort on our part.

Summit: Thanks Karl, for your time and insights.

Contact Information:

Karl Johansen

Port Madison GIS, Inc.

P.O. Box 10920

Bainbridge Island, Washington 98110

Voice (206) 780-1210; Email: emmasen@msn.com



PUBLIC COMMENT PERIOD OPENS FOR GISCI CORE COMPETENCY-BASED CERTIFICATION MODEL FOR GISPs

Park Ridge, IL - The GIS Certification Institute (GISCI) is considering a fundamental change to the way it certifies GIS professionals (GISPs). This change may lead to the development of a GISP examination down the road. Currently, GISCI is seeking public comment from the GIS community and GISPs on these proposed changes.

The GISP certification program was founded on the principle that real-world work experience combined with education and professional association activities can serve as a proxy for a comprehensive examination on the basics of geographic information science and technology (GIS&T). This was because, when the GISCI program was created, there was no established guide for the content of such a test.

GISCI has now had a couple of years of experience reviewing applications and compiling data on applicant qualifications. For most applicants, their education and work experience has conformed to the expected pattern and produced well-rounded career professionals who are competent in a broad area of GIS practice. However, identifying a wider and more defined range of expertise has been the goal of GISCI from the start.

See: *GISP*, Page 12



UPCOMING URISA EVENTS AND CONFERENCES

<p>Asset Management/Asset Accounting: GIS Brings Them Together URISA BC Chapter April 18, 2007 Vancouver, BC http://www.urisabc.org/finance_asset_event.htm</p>	<p>2007 Washington GIS Conference Foundations for the Future URISA Washington Chapter April 23-25, 2007 Lynnwood, WA http://www.waurisa.org/conferences/index.html</p>
<p>Geospatial Integration for Public Safety Conference URISA April 15-17, 2007 New Orleans, LA http://www.urisa.org/gipsc</p>	<p>GIS in Public Health Conference URISA May 20-23, 2007 New Orleans, LA http://www.urisa.org/conferences/health</p>
<p>GIS in Action URISA Oregon Chapter April 17-18, 2007 Vancouver, WA http://www.orurisa.org/events/gisinact/2007event/index.html</p>	<p>URISA's 45th Annual Conference Sharing Technological Inspiration August 20-23, 2007 Washington, DC http://www.urisa.org/conferences/annual/info</p>
<p>Public Participation GIS Conference URISA September 27-28, 2007 Vancouver, BC http://www.urisa.org/conferences/publicparticipation</p>	<p><i>In this day and age of tight budgets and numerous choices of conferences to attend, why choose URISA? I can tell you why I choose URISA - because of the people, because of the networking opportunities, because of the new ideas that I learn about - in the sessions, in the exhibit area, and in the hallways!</i> -Sandi Majewski, Crime Analyst, City of Las Vegas Police Dept</p>

OTHER UPCOMING GIS EVENTS:

<p>2007 Spring Meeting Association of Washington Geographers May 12, 2007 Everett, WA http://washingtongeographers.org/</p>	<p>Annual Conference 2008 GITA March 9-12, 2008 Seattle, WA http://gita.org/events/annual/31/index.asp</p>
<p>MapWorld 2007 MapInfo Global User Conference May 8-10, 2007 Seattle, WA http://www.mapinfo.com/promo/mapworld2007/index.jsp</p>	<p>2007 Conference Northwest ESRI GIS User Group September 10-14, 2007 Tacoma, WA http://www.nwesriusers.org/</p>
<p>GIS Day 2007 November 14, 2007 http://www.gisday.com/</p>	<p>Geography Awareness Week November 12-16, 2007 http://www.mywonderfulworld.org/gaw.html In 1987, U.S. President Ronald Reagan signed legislation establishing the third week in November as Geography Awareness Week.</p>



2007 WASHINGTON GIS CONFERENCE

Latest Conference Information

April, 2007

Dear Washington State GIS Colleagues:

Final preparations are nearing completion for the 2007 Washington State GIS Conference, "Foundations for the Future," to be held April 23-25, 2007 at the new Lynnwood Convention Center.

Why should you attend? Educational workshops, a motivational keynote speaker, a wide range of educational sessions, vendors, a map & poster contest, good food, good fun, and a chance to meet with your colleagues!

[Register Today!](#)



April 23-25, 2007

Lynnwood Convention Center

Map & Poster Contest Still Accepting Entries:

The poster and map competition will display some of the great work being accomplished around the State with GIS. Fabulous prizes will be available for the winners!

It's still not too late to enter your outstanding work – see: [Map Contest](#)

Monday Pre-Conference Workshops (Four Half-Day Workshops – Attend Two of Your Choice)

- GIS for Analysts Boot Camp (presented by the King County GIS Center):** The theme of the 2007 Washington GIS Conference is Foundations for the Future. This workshop from the King County GIS Center is designed to strengthen the educational foundation of GIS users. KCGIS Custom Training has been designed to complement the academic education and GIS software training that most GIS professionals and users begin with. The KCGIS experience has been that custom designed modular training is an effective means to enhance the productivity of GIS users, analysts, and data maintainers. The GIS for Analysts Boot Camp will be a sampling from the King County GIS Training Express Program. Specific topics to be covered include:

 - Hot Tips for ArcGIS, SQL, and Metadata
 - Data Editing in ArcGIS
 - Geoprocessing for Analysts

The GIS for Analysts Boot Camp will include live, easy-to-follow demonstrations. Instructors are seasoned King County GIS professionals who are expert in applying these techniques and tools. What you learn can help you to accomplish more complex data analysis and to enhance your productivity in completing GIS-based analysis. The GIS for Analysts Boot Camp will benefit you and the agency you work for by expanding your GIS related skills and abilities for a strengthened foundation for your future.
- Can CAD and GIS Co-Exist?** (Presented by CH2M Hill): Everyone dreams of the day that their GIS and CAD systems will seamlessly work together, where GIS analysts have the latest version of a roadway design and engineers have a live connection to tax parcels and ownership information. This workshop will cover the need for CAD/GIS integration and give an overview of the different products and solutions software vendors like ESRI, Autodesk and Bentley have in the marketplace. In addition to the different products available to organizations there is also a need to know how these solutions best fit into your organization. Do you really need a fully integrated solution or would a strong ETL (extract, translate, load) process work for you? There are varying levels of integration and each will be discussed regarding their benefits and limitations.
- ArcGIS Server: Author-Serve-Use (Presented by ESRI):** ArcGIS Server 9.2 is a complete and integrated server-based GIS. It is now easier to implement and administer and includes out-of-the-box tools for spatial data management, visualization (2D and 3D mapping), and spatial analysis. This seminar will show you how to author, serve and use ArcGIS Server services for mapping and geoprocessing in a number of different clients.
- Engineering GIS: Leveraging Your CAD Resources (Presented by the PPI Group):** CAD and GIS systems can work seamlessly with each other in a manner that allows you to utilize the strength of each system. This workshop focuses on the Autodesk Geospatial product line and value chain in order to expose opportunities for you to leverage your existing CAD resources into your GIS initiatives. Autodesk has assembled a geospatial product line that allows organizations to gain maximum return on their investments in CAD resources in both software and staffing. This workshop will cover the workflow components that are available today within AutoCAD Map3D, MapGuide Enterprise, and Topobase that allow for Engineering GIS systems to be built and shared across and outside of organizations. Highlights of the workflow are the ability to utilize all of your design and engineering resources while quickly and efficiently sharing your data with technical and non-technical users. Product line functionality will be shown as a standalone system or in an implementation that integrates with ESRI software.

Tuesday Keynote Address:

King County Executive Ron Sims



Ron Sims has been a long time proponent of the use of GIS technology and as led King County to innovations in GIS technology use and business deployment. His keynote address is sure to be highly inspirational.

Tuesday & Wednesday Educational Speaker Sessions

Funding Enterprise GIS Panel

Session:

- Moderator: Greg Babinski
- Bob Pool, Clark County
- George Horning, King County
- Linda Gerull, Pierce County
- Don Burdick, City of Bellingham
- Melissa Faga, City of Redmond
- Grant Timentwa, Muckleshoot Tribe

Utilities:

- From Streets to Pipes, Edward Speer, CDM
- "Science Information Management System - Acquisition, Analysis and Integration of Environmental Science Information at SPU" by Duncan Munro
- "10 Years of Wireless Lessons Learned" by Tred Teo & Kurt Myking

Data Integration:

- Building an Online Tool for Spatial Joins, by Karsten Vennemann, TerraGIS
- "To Match or not to Match? Conflation-Based Data Integration" by Samuel Smith - Refractions Research
- "CAD is our GIS and SAP is our ERP" by Kurt Myking & Fred Teo, City of Tacoma

Learn From the Managers:

- "Planning for Integration" by Don Burdick, City of Bellingham
- Migrating from Mainframe GIS to ArcGIS SDE" by Jean Postlewaite, Chelan County
- "To be Announced" Dylan Thomas, Woolpert

Tribal & Federal GIS:

- 2010 Census LUCA Program, Michaellyn Garcia, USCB
- Tribal Government Sewer Comp Plans to Housing/Community Planning, Carolito Tolentino
- To be announced

Turning GIS Straw in Cartographic Gold:

- Patrick Jankanish, King County GIS Center
- Chris Behee, City of Bellingham
- Anne Heinitz, WADNR

Emerging Mapping Technologies:

- "Bringing Innovation to Information Systems" by Tom McGovern, Immersive Media, Inc
- "Hyperspectral Imaging to Assess Wildfire Hazard" Dave Brown, EHS International
- "LiDAR Data for Rural GIS", Josh Greenberg, Skagit County

GIS & Survey Panel Discussion:

- Moderator: Karen Zollman, SPU
- Robert Pusey, PLS, Pacific Geomatics
- Others TBD

Public Safety:

- John Hansen, Former Oklahoma City Fire Chief
- Michael Payne, Pierce County
- Abhijai Sood, Infosys Technologies Ltd.

Student Paper Competition:

Four students will compete for the new Dick Thomas Student Presentation Award

GIS Management:

- "Real World, Real Easy, GIS Project Management" by LeighAnn Wolfe, Xuejin Ruan, and Linda Gerull, Pierce County
- "How do you do? - Performance Measures for Enterprise GIS" by Greg Babinski, King County
- "GIS Project Organization and Workflow" by Bob Pool, Clark County

Vendor Track:

- "Best Practices: Tracking Incoming GIS Data Through Permitting Workflow" by Accelea
- ESRI - ArcGIS Image Server
- Pacific Alliance Technology - Chris Webber

Potpuri:

- City of Mercer Island Storm Drain Data Map Conversion" by Leah Demetillo, City of Mercer Island
- "GIS & Real Estate Portfolio Management in King County" by Lisa Castle, KCGIS Center

WAURISA Thanks the Following Vendors Who Are Our Current 2007 Washington GIS Conference Sponsors

Mount Adams Sponsors:

- Accelea
- Aerials Express
- ESRI
- GITA
- Kuker-Rankin
- Latitude Geographic
- LizardTech
- PPI Group

Mount Baker Sponsors:

- Electronic Data Solutions
- Geoline
- King County GIS Center
- Marshall GIS
- MetroGeospatial
- Pacific Alliance Technologies
- Woolpert

Mount Olympus Sponsor:

- CH2M Hill

Vendors will be on hand to demonstrate their products and answer any questions about services they offer. In addition to vendor booths, there will be a special vendor track on Tuesday and Wednesday.

Food: Your registration includes lunch each day.



Fun: Tuesday Night Social: Join your colleagues for a night of bowling fun at Majestic Brunswick Lanes in Lynnwood. With your ticket you'll get your bowling ball, shoe rental, and lots of fun food. This evening will be a great chance to socialize with your peers in a relaxed environment. You and up to 4 guests are invited to attend - and it's a steal at only \$25/ticket.

To register for the 2007 Washington GIS Conference: Use the mail-in registration form or register online at:

www.waurisa.org/conferences/index.html

See why WAURISA was named URISA Chapter of the Year! We hope to see you in Lynnwood in April!



ONLINE SECURE REGISTRATION LINK:

<https://secure.thrive.com/Reg/Form.aspx?IDTD=7578&IDRPH=1359075>

Attendee Information

Name _____ Phone Number _____
 Address _____ Fax Number _____
 City _____ email Address _____
 State/ Province _____ Zip/ Postal Code _____

Registration Information

You can register for the Conference and Workshop separately, but if you attend both, you will receive a discounted rate. If you have internet access, you can register securely online and **pay with credit card, check or request a purchase order**. Please click the ONLINE REGISTRATION LINK at the top of this form to be directed to the site. Mailed registrations must be postmarked by April 10th, and online and email registration will be available until April 14th. Walk up registration will be available during the conference, subject to space available.

Professional Registration

- Workshop Only, April 23 (\$110)
- Conference Only, April 24-25 (\$185)
- Workshop & Conference, April 23 - 25 (\$260)
- Bowling Night/Pizza Dinner, April 24th (\$25 each)
- Guest Ticket 2nd Guest Ticket 3rd Guest Ticket

Student Registration (Please include proof of active student status)

- Workshop Only, April 23 (\$75)
- Conference Only, April 24 -25 (\$85)
- Workshop & Conference, April 23 - 25 (\$125)

Total Registration Fee

- I would like to be a part of one of WAURISA's Committees
- I would like to speak at a future WAURISA event
- Please only list my name and email in the WAURISA Directory
- Please do not share my address outside of WAURISA
- Please do not list me in the Membership Directory
- Please do not email me occasional WAURISA updates

Payment & Billing Information (if applicable)

Credit card payments are available only through our secure online site using the ONLINE REGISTRATION FORM at the top of this form

- Check Enclosed (payable to "WAURISA", please print and mail this form with check to address below)
- Need Invoice to process payment (please fill out billing information below and submit via email:

Company _____
 Address _____
 City _____ State/ Province _____ ZIP/ Postal Code _____
 Phone Number _____ Fax Number _____
 Contact Name _____ P.O. Number _____

SPOTLIGHT ON WAURISA TREASURER: STEVE SCHUNZEL

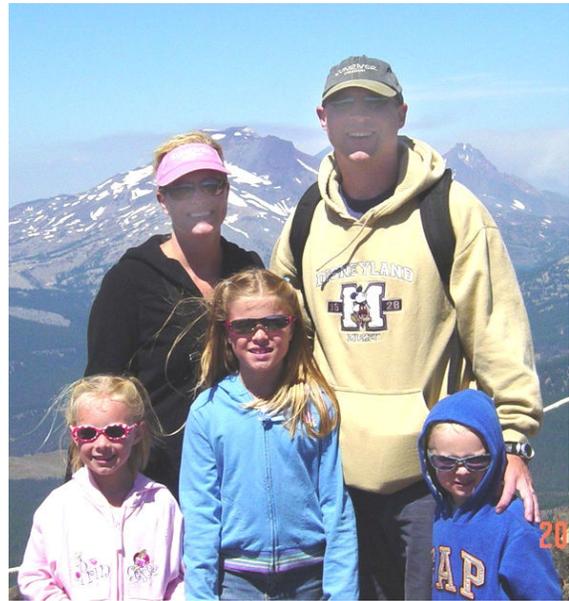
I have been in the GIS field for 15 years and a WAURISA board member for nearly two. After years growing up consuming my parents' National Geographic magazines for the maps, I knew that my profession would be based in geography. This interest led me to a degree in Urban Planning from Western Washington University. For the first six months out of school, I tried out my newfound planning skills from college for about 6 months. Then quickly realized the connection between computers and geography, and better yet, computers weren't as political!

My first job in GIS was with the City of Richland, Washington building enterprise GIS layers the AutoCAD way. Pretty funny, considering I hadn't ever touched the program until my interview. However, this experience would prove valuable as Kitsap County was looking for bodies to map their cadastral information, using AutoCAD. So after being called "mossyback" for the last time in eastern Washington, I headed back to the "wet" side of the state. After spending 6 years learning the ins & outs of AutoCAD as well as good 'ol command line ArcInfo, it was time to try to build a GIS on my own. The City of Des Moines, WA gave me an opportunity to be their GIS Coordinator and build a GIS from the ground up. It was a very rewarding experience, but unfortunately budget cuts led me back to a 2nd tour of duty with Kitsap County, where I am still employed - building geodatabases, writing Python and teaching the zen of GIS.

I really believe in the power of GIS and using geography to make better decisions. Through most of my career, the GIS team was relegated to the basement where on one hand it was great as we were away from the fray of daily business, however few people knew of us or our capabilities. Because of this, I have been determined to "spread the word" about GIS. One method to do this is to teach, so I have become an authorized ESRI instructor for the county, teaching an Intro to ArcGIS class to aspiring GIS users throughout the county.

I am currently the WAURISA Treasurer and I became involved with WAURISA after getting to know Rick Lortz, whose Lakehaven Utility District served the southern portion of the City of Des Moines. Rick was interested in moving upward out of the Treasurer position, so I figured what better way to get to meet other geography nuts, right? I didn't have a clue about finances, but what heck it's only money right? In all seriousness, this experience has been fantastic as it has exposed me to the wonderful world of budgeting, tax forms & balance sheets. Things that make the world work and are necessary if one wants to climb the career ladder. It has been a rich and rewarding experience not only to learn a whole new skill set, but more importantly work with other board members & volunteers who share a common interest.

While GIS is a love of mine, my primary love is my wife Jen, of nearly 14 years and my three awesome kiddos; Kayla (8), Sarah (6) & Brett (4). They are fantastic and tolerate my constant geographic trivia quizzes while on road trips. We live in the rapidly growing Gig Harbor area (the new bridge is almost done!). We also enjoy the usual hiking & biking, but now simply are content getting caught up in the chaos of raising 3 kids, each separated by two years.



WAURISA Treasurer Steve Schunzel and his family

GISP

Continued from Page 7

In order to define the full breadth of expected knowledge for a certified GISP, GISCI proposes to consider the core competency areas listed in the recently completed "Geographic Information Science and Technology Body of Knowledge", 2006, developed by the University Consortium for Geographic Information Science (UCGIS). The Body of Knowledge is structured around 10 knowledge areas embracing 114 competency units that should be covered by a comprehensive college education program for GIS&T. The Body of Knowledge identifies 24 of the competency units as representing the minimal content for any qualifying program. GISCI is considering modifying its standard GISP application to include a requirement for the applicant to certify he or she has the range of knowledge, skills, and abilities listed in those 24 core competency units through some combination of education and experience. Eventually, GISCI could develop a GISP certification examination based on these standards.

Before any of that occurs, GISCI is seeking comments from both the GIS community and current GISPs on the proposal. Comments from the GIS community are vital to putting the core competencies to a practical test. If the core competencies are not reflective of GIS professionals, a program or examination based on them would be prohibitive. If professionals want to make their opinions known, use our guestbook for public comment. Please pay close attention to the listed core competencies and leave comments on the new proposal. A "Frequently Asked Questions" document is available for further explanation. The public review period lasts from 3/22/07 - 4/30/07.

See the Core Competency-based Certification Model at: http://www.gisci.org/Competency_Based_Model/core_competency_model.htm. There are 1,443 Certified GIS Professionals (GISPs) as of February 25, 2007. For more information regarding the GISCI certification program, please visit www.gisci.org or call (847) 824-7768.

WAURISA SPONSORS

WAURISA thanks the following sponsors for their generous support:



Accela Government Software
<http://www.accela.com/>



Aerials Express
<http://aerialsexpress.com/>



Dell Computer Corporation
www.dell.com/



Engineering Support Unit
www.insideoregon.com/gis/



ESRI
www.esri.com



GITA 2008 Conference: Seattle
www.gita.org



Juniper GIS
www.junipergis.com



King County GIS Center
www.metrokc.gov/gis



Kroll Maps
www.krollmap.com/



Kuker-Ranken Incorporated
<http://www.krinc.net/>



Latitude Geographic
<http://www.latitudegeo.com/>



LizardTech
<http://www.lizardtech.com/>



The PPI Group
<http://www.theppigroup.com/>



Seattle GIS
www.cityofseattle.net/gis/

The Summit reaches more than 2600 readers across Washington State. For more information about the benefits of WAURISA Sponsorship, contact Rick Lortz (president@waurisa.org), or any WAURISA Board member.....

THE SUMMIT - EDITORIAL

GIS AND GEOGRAPHY

The word 'geographic' helps define GIS – geographic information systems. GIS is a powerful tool that has helped to launch thousands of careers, hundreds of businesses, and a whole new industry that did not exist 20 years ago. GIS has helped transform companies and government agencies and contributes to real growth in the economy. And GIS is poised to do more – witness the growth of Zillow and Redfin in the local real estate market and the proliferation of Google Maps mash-ups. KC Metro busses with ads for Microsoft's Maps.Live.Local that rumble by in Seattle are an indication that our state's software giant sees future growth in computerized mapping services.

But often *GIS practitioners* forget, or never knew, that geography as a science can contribute far more to the services we provide. Often GIS professionals seem limited in what they do by focusing only on the capabilities of GIS technology. This is not to underplay the geoprocessing and analytical power of state of the art GIS software. We have awesome tools available, but sometimes our thinking seems focused on and limited by the tools.

However Geography is more than just a Jeopardy category. *Geographers* have an understanding of geographic theory and an innate curiosity about 'spatial organization.' They have embraced GIS, but as a tool to support their curiosity about the geographic distributions that they observe and the spatial relationships that they hypothesize. *Geographers* think about questions like 'Why do individuals choose to live, work, and shop where they do?' 'How can we classify the past spatial distribution of a population to predict the future?' 'How will climate change affect agriculture, water supply, or public health?' And *Geographers* have a wealth of geographic theory and models to apply to these questions. A great local example of the meshing of geographic analysis with GIS is the Puget Sound Regional Council's monthly *Regional Technical Forum* meetings (<http://www.psrc.org/boards/advisory/rtf.htm>). These meetings are open to the public and confirm that *Geographers* can ask questions that may push GIS in exciting new directions.

GIS technology is indeed a powerful tool, but the study and science of geography is powerful too. Combined, GIS with geography can open our eyes to new applications for the technology and open our eyes to more fully understand and benefit from our growing knowledge of the spatial organization of the world.



The Summit would like to hear from you. To encourage the discussion of issues and ideas of importance to the Washington GIS community we welcome letters to the editor and opinion essays. Letters to the editor should be a maximum of 100 words and essays should be limited to 250 words.

The Summit is published by WAURISA, The Washington State Chapter of the Urban & Regional Information Systems Association

Chief Editor: Greg Babinski

Interview Editor: Effie Moody

For subscriptions, content, comments, or suggestions, email:

SummitGISNews@URISA.org

PUBLIC MAPS IN WASHINGTON

In the previous issue of *The Summit* we inaugurated a new feature on public maps in Washington State. If you know of a public map display in Washington, feel free to send it to *The Summit* and we'll include it in a future issue.



The Seattle Post-Intelligencer Globe

Three or four days each week I go for a run at lunchtime from my Pioneer Square area office along the Seattle waterfront. My running route takes me north towards Myrtle Edwards Park, past the new Olympic Sculpture Park. Running north, I see the Seattle PI Offices with the globe pictured above perched on the top.

The 30 foot diameter globe was built in 1948. Until 1986 it sat above the PI's offices at Sixth Avenue and Wall Street. It was then moved to the Newspaper's current building along the waterfront.

As I turn south and head back to my office, it's reassuring knowing that the globe is there to guide me back.

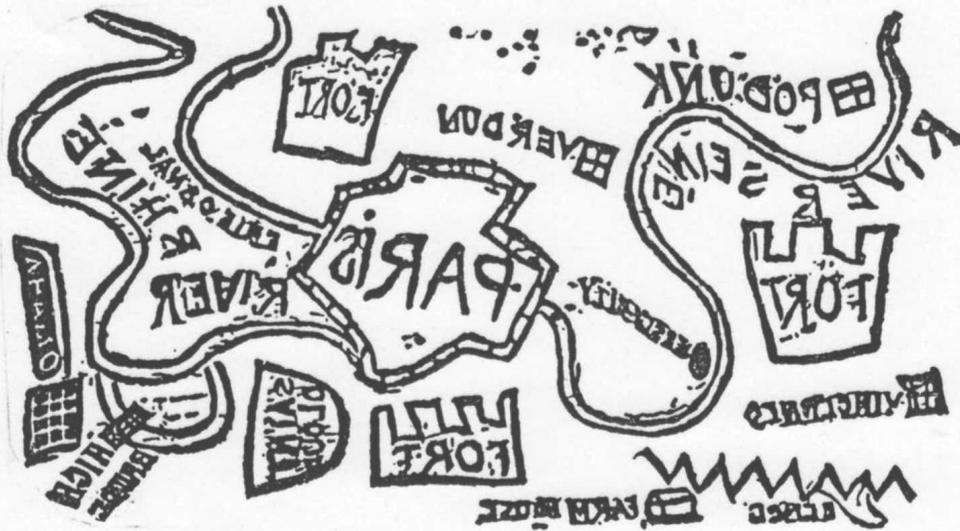
-Editor

THE SUMMIT – LITERARY CORNER

Mark Twain's Map of Paris

Mark Twain, America's greatest literary humorist, created his '*Map of Paris*' with a jack knife and a block of wood during a fit of depression in 1870. The Franco-Prussian War was in progress and the newspapers of the day often included maps depicting the location of the rival armies in France. The '*Map of Paris*' with Twain's '*Official Commendations*' was published originally in the *Buffalo Express* on September 17, 1870. It was later reprinted in the *Galaxy Magazine* and became widely popular.

The '*Map of Paris*' is reprinted on the following page.



Map of Paris

TO THE READER

The accompanying map explains itself.

The idea of this map is not original with me, but is borrowed from the great metropolitan journals.

I claim no other merit for this production (if I may so call it) than that it is accurate. The main blemish of the city paper maps, of which it is an imitation, is that in them more attention seems paid to artistic picturesqueness than geographic reliability.

Inasmuch as this is the first time I ever tried to draft and engrave a map, or attempted anything in the line of art, the commendations the work has received and the admiration it has excited among the people have been very grateful to my feelings. And it is touching to reflect that by far the most enthusiastic of these praises have come from people who know nothing at all about art.

By an unimportant oversight I have engraved the map so that it reads wrong end first, except to left-handed people. I forgot that in order to make it right in print, it should be drawn and engraved upside down. However, let the student who desires to contemplate the map stand on his head or hold it before a looking-glass. That will bring it right.

The reader will comprehend at a glance that the piece of river with the "High Bridge" over it got left out to one side by reason of a slip of the graving-tool, which rendered it necessary to change the entire course of the River Rhine, or else spoil the map. After having spent two days in digging and gouging at the map, I would have changed the course of the Atlantic Ocean before I would lose so much work.

I never had so much trouble with anything in my life as I had with this map. I had heaps of little fortifications scattered all around Paris at first, but every now and then my instruments would slip and fetch away whole miles of batteries, and leave the vicinity as clean as if the Prussians had been there.

The reader will find it well to frame this map for future reference, so that it may aid in extending popular intelligence and in dispelling the wide-spread ignorance of the day.

MARK TWAIN 1870

OFFICIAL COMMENDATIONS

It is the only map of the kind I ever saw.

It places the situation in an entirely new light.

I cannot look upon it without shedding tears.

It is very nice large print.

My wife was for years afflicted with freckles, and, though everything was done for her relief that could be done, all was in vain. But, sir, since her first glance at your map, they have entirely left her. She has nothing but convulsions now.

If I had had this map, I could have got out of Metz without any trouble.

I have seen a great many maps in my time, but none that this one reminds me of.

It is but fair to say that in some respects it is a truly remarkable map.

I said to my son Frederick William, "If you could only make a map like that, I should be perfectly willing to see you die - even anxious."

(U. S. GRANT)

(BISMARCK)

(BRIGHAM YOUNG)

(NAPOLEAN)

(J. SMITH)

(BAZAINE)

(TROCHU)

(W. T. SHERMAN)

(KAISER WILLIAM III)

GIS USER GROUPS & EVENTS IN WASHINGTON

ACSM – Washington State Section
<http://www.wss-acsm.org/>

ASPRS Puget Sound Region
<http://www.photogrammetry.com/ASPRS-PSR/>

Central Puget Sound GIS User Group
<http://waurisa.org/phpBB2/viewforum.php?f=24>
 Meetings the 3rd Tuesday of each month from 1:00 to 3:00pm at
 Mercer Island City Hall. Contact Nora Gierloff at:
ngierloff@ci.tukwila.wa.us

Central Washington GIS User Group
<http://www.cwgis.org/>
 Meets the 1st Friday of each month at the Super China Buffet in East
 Wenatchee, WA at 12:00 noon.

King County GIS User Group
http://www.metrokc.gov/gis/KC_Users_Group.htm
 Meets 1st Wednesday of each month at 11:00am at the KCGIS
 Center, 201 S. Jackson Street, Seattle WA, Conf Room 7044/7045.

Northwest Washington GIS User Group
http://www.acadweb.wvu.edu/gis/nwgis_mtgis.htm

Spokane Regional GIS User Group
<http://waurisa.org/phpBB2/viewforum.php?f=19>
 Contact: Dave Rideout, Spokane County 509-477-7251
drideout@spokanecounty.org .

Washington Geographic Information Council (WAGIC)
<http://wagic.wa.gov/>
 Join Listserv at: <http://listserv.wa.gov/archives/wagic.html>

2007 NW ESRI User Conference
<http://www.nwesriusers.org/>

2007 URISA Conference, August 20-23, 2007, Washington, DC
<http://www.urisa.org>

2007 GITA PNW Chapter Conference
<http://www.gita.org/chapters/pacific/index.htm>

2007 Washington GIS Conference: April 23-25, 2007, Lynnwood, WA
<http://www.waurisa.org>

To have your GIS related event listed in future issues of *The Summit*,
 notify the editor at: SummitGISNews@URISA.org.

To be added to *The Summit* mailing list, contact:
SummitGISNews@URISA.org

Back issues of *The Summit* are available at:
<http://waurisa.org/thesummit/>

WAURISA SPONSORS

For information about how your company or agency can become a
 Washington URISA Sponsor, contact Rick Lortz or Steve Schunzel
 (see contact information below)

WAURISA BOARD OF DIRECTORS

President: Rick Lortz: rlortz@lakehaven.org
Vice President John Joseph: jjoseph@esri.com
Secretary Greg Babinski: greg.babinski@metrokc.gov
Treasurer Steve Schunzel: sschunze@co.kitsap.wa.us
Past President Jaime Crawford: jaimie.crawford@ch2m.com
Board Members At-Large:
 Don Burdick: dburdick@cob.org
 Russ Michel: russ.michel@autodesk.com
 Matt Stull: matts@co.mason.wa.us
 Angela Johnson: angela.a.johnson@us.army.mil
 Amanda Taub ataub@co.douglas.wa.us

WAURISA COMMITTEE VOLUNTEERS

Glenn Brooks: brooks.glenn@comcast.net
 Cort Daniel: cort.daniel@co.pierce.wa.us
 Doug Day: dday@esri.com
 Kristina Evanoff: evanoffk@soundtransit.org
 Tami Griffin: griffit@wsdot.wa.gov
 Tia Hillerman: thillerman@highlinewater.org
 Reily Love: webmaster@waurisa.org
 Effie Moody: effie.moody@seattle.gov
 Dave Rideout: drideout@spokanecounty.org
 Heather Spates: spatesh@wsdot.wa.gov
 Mike Strong: Mike.strong@cityoffederalway.com
 Dean Tatham deant@ci.burien.wa.us

Interested in volunteering your time to help WAURISA?

Contact Rick Lortz or any Board member listed above.

JOIN THE WASHINGTON GIS COMMUNITY FORUM!

The Summit is not the only communications resource available to
 members of the Washington GIS Community. Sign up as a
 member of the Washington GIS Community Forum
 (<http://waurisa.org/phpBB2/index.php>) and access the latest news
 about GIS jobs, training, projects, and professional activity in
 Washington State.



WAURISA
1402 AUBURN WAY NORTH
PBN 158
AUBURN WA 98002