

**WASHINGTON STATE URBAN AND REGIONAL
INFORMATION SYSTEMS**

Facing the Future with GIS, “Planning Horizons in an
Uncertain World”

CONFERENCE SCHEDULE OF EVENTS



FEBRUARY 24, 25 – FIFE, WASHINGTON

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Welcome to the Conference. I sincerely believe that this program will provide an opportunity for interesting conversation and knowledge sharing while providing a forum to meet vendors and peers for discussion on GIS related topics. Enjoy!

Directions to the Best Western Exec Inn at Fife, 5700 Pacific Highway East, Tacoma Wa.
1-800-938-8500

From I-5 heading southbound towards Tacoma, take the 137 Fife exit and turn right to Pacific Highway East. Turn right again and the hotel is only a few blocks away.

From I-5 heading northbound towards Seattle, take the 137 Fife North exit, pass over the freeway and proceed to Pacific Highway East. Turn right and the hotel is only a few blocks away.

Thursday, Feb 24

8:00 - 9:00 - ATRIUM ROOM

Registration & Badges

9:00 - 10:00 - JIB ROOM

Welcome Message – Greg Cioc, President Wa URISA

Letter from Nancy Tosta – President, URISA National

Wa. Geographic Information Council Update – Larry Sugarbaker

Wa. Framework Projects Update – Carrie Wolfe, George Spencer

10:00 - 10:30

Break

10:30 - 12:00 - JIB ROOM

Plenary Session: Census 2000: The Impact and Opportunities for GIS

Val Thomas-Matson and Cam McIntosh, US Bureau of the Census

12:00 - 1:00 – ATRIUM AND COVE ROOM

Lunch and visit with Exhibitors in the Cove Room

1:00 – 2:30

CENSUS TRACK – MARINE ROOM

Moderator: Ian Von Essen, GIS Manager, Spokane Co.

Title: Census 2000, Products, Processes and Data

Presenters: Cam McIntosh and Andrew Haney, US Census Bureau and Tim Koss, Snohomish County

Summary: Presenters will discuss the general process and expected results of the 2000 census. Tim Koss will discuss geography changes, LUCA, Complete Count Committees and similar local issues.

Title: Availability and Use of the Employment Security Division data

Presenter: Tim Norris, Wa. State Employment Security Division

Summary:

Title: Census 2000: A Transition Year

Presenter: Chandler Felt, King Co. Demographer

Summary:

PUBLIC SAFETY TRACK – SPINNAKER ROOM

Moderator: Linda Gerull, GIS Manager, Pierce County

Title: Crime Star

Presenters: Mike Carson, Sergeant, Pierce County Sheriff Department, Crime Analysis Section

Summary: Crime Star is a desktop GIS application that provides easy to use tools to analyze crime for the support of strategic and tactical operations. The application and data security issues will be discussed.

Title: Pierce Responder

Presenters: Ed Reed, Manager of Pierce County Emergency Operations Center

Summary: Pierce Responder is a web application that provides emergency responders access to necessary information about facilities during a crisis situation. It is a multi-agency, multi-disciplinary effort that includes emergency management, law enforcement, fire departments, school districts and private businesses.

Title: Crime Analysis System with WTO Examples

Presenters: Sgt. Ron Rasmussen, Crime Analysis Section, Seattle Police Dept.

Summary:

LAND RECORDS TRACK – COMMODORE ROOM

Moderator: Karen Zollman, Whiteshield Inc.

Presenters: Ken Conradi, PLS, Mapping Supervisor, City of Seattle

Lynn Call, PLS, Chief Surveyor, City of Bellevue

Chris Wright, GIS Manager, Benton County

Summary: Presenters will discuss approaches for Implementing High Accuracy Parcel Mapping. The speakers will discuss false starts with low accuracy mapping, and cooperative collaborative efforts with consultants and other departments to create high accuracy mapping.

VENDOR TRACK – BOARD ROOM

“High Resolution Satellite Imagery- Up Close and Personal” Space Imaging, Dave Ward

2:30 – 3:00

Break

3:00 – 4:30

BUSINESS NEEDS TRACK – MARINE ROOM

Moderator: Stan Gerber

Title: Web based Strategic Information Technology Plan

Presenters: Linda Gerull, GIS Manager, Pierce County

Summary: Have you ever tried to tie your GIS technology Plan, Mission Driven Budget Objectives and Project Time Tracking into a neat package. Come see how Pierce County GIS tackled the problem and made it available to all their intra-net users.

Title: Enterprise GIS

Presenter: Steve Colligan, E-Terra

Summary: President of eTerra will briefly discuss the concept of Enterprise GIS. Is this yet another industry buzzword or is there substantial evidence of new technology development that may effect real industry change and integration.

Title: Plan for Success, Strategic Planning for GIS

Presenter: Gregg Selby, Principal Project Mngr, Knowledge Solutions and Systems, Roy F. Weston.

Summary: Plan for Success, Strategic Planning for GIS

As organizations attempt to integrate GIS technology and spatial data into their enterprise or departmental information systems they are often frustrated by diverse data models, incompatible data sets, and redundant data flows. Often, there is no decision structure for resolving these issues. If left unresolved, these issues undermine even the best efforts of application developers and system integrators to fully exploit spatial data. An effective GIS strategic plan defines high-level systems, data, and decision making architectures that provide frameworks for resolving these issues on a continuous basis. This presentation provides an overview the GIS strategic planning process and identifies keys to successful needs assessment, conceptual design, data development and maintenance planning, organizational planning, and implementation planning.

TRANSPORTATION TRACK – SPINNAKER ROOM

Moderator: Dan Dickson, CRAB

Title: GIS-T Application Development at WashDOT

Presenter: George Spencer, Carol Kenstowicz, GIS, Geographic Services Office, WashDOT

Summary: This paper will discuss and demo some of the current GIS projects at WashDOT.

Title: Modality—Road Inventory System

Presenter: Dan Dickson, County Road Administration Board

Summary: This is a demonstration of the Modality application which will soon replace the County Road Inventory System (CRIS). This system includes a GIS component.

Title: Transportation Planning GIS- Evolution of Transportation GIS in Pierce County

Presenters: Jesse Hamashima, Transportation Planning Supervisor, and Jie Chen, Transportation Planner

Summary: Pierce County transportation planning staff did not find immediate and full utility in applying GIS to their everyday tasks. Rather the use of GIS in Transportation planning has been more evolutionary than spontaneous. Staff is continually finding new transportation planning applications which enhance the viewing, analyses, and presentation of information. This presentation describes the types of transportation planning projects implemented with GIS. It touches on the resources needed, both capital and staffing, required to continue the development and maintenance of GIS. Also presented are the benefits of GIS seen in the workflow and products of the office.

ENVIRONMENTAL TRACK – COMMODORE ROOM

Moderator: Dan Cardwell

Title: Web development for Wellhead Data Dissemination

Presenter: Scott McQueen, GIS Programmer, Washington State Dept. of Health

Summary: Washington State Department of Health has undertaken the development of a web site for the dissemination of wellhead data. This site includes a map interface with search capabilities and allows for downloading of spatial and tabular data.

Title: Mapping the Minoan Living Surface with GPR, GPS, GIS

Presenter: Patrick Moore, Director of Integral GIS, Inc

Summary: This paper will examine the seamless use of GPR, GPS and GIS technologies in establishing the extent of the Minoan living surface of the island of Thera. The project has many components: the geological mapping of the surface where exposed; geophysical imaging of the surface where it is not exposed using ground penetrating radar (GPR); the use of a global positioning system (GPS) to make more precise, the geological and geophysical mapping, and the implementation of GIS databases and analytical techniques to produce a much more accurate picture or representation of that topography.

Title: Drainage Facility Field Data Collection

Presenters: Matt George, GIS Tech, Pierce County & Greg Heintz, GIS Tech, Pierce County

Summary: Mapping grade GPS has become a cost-effective method of data collection for mapping. This paper will discuss the methodology used to collect drainage features for mapping the complete drainage system in Pierce County. This project is one component of Pierce County's ESA plan.

VENDOR TRACK – BOARD ROOM

OPEN

FRIDAY 8:30 – 10:00

CENSUS TRACK – MARINE ROOM

Moderator: Ian Von Essen, GIS Manager, Spokane Co.

Title: Using GIS to Estimate Small Area Populations

Presenters: Neil Kilgren, Puget Sound Regional Council

Summary:

Title: Chicago's census 2000, Local Review Methods

Presenter: Gregg Selby, AICP, Principal Project Manager, Knowledge Solutions & Systems Group
Roy F. Weston, Inc.

Summary: The City of Chicago reviewed the Census Bureau's housing unit address list and TIGER line file for potential omissions and attribute errors. Address data from the City, gas utility, electric utility, telephone company and Chicago Housing Authority were compared with the Census Bureau's housing unit address list to identify potential omissions. The City's street centerline network layer was conflated with the TIGER line file to identify topological differences and attribute differences. The housing units identified as a result of the review will have an estimated revenue impact of more than \$10,000,000 over the coming decade.

PUBLIC SAFETY TRACK – SPINNAKER ROOM

Moderator: Linda Gerull, GIS Manager, Pierce County

Title: GIS to Computer Aided Dispatch

Presenter: Chuck Buzzard, Programmer Analyst, Pierce Co. GIS

Summary: With the installation of a new Computer Aided Dispatch System, an application was developed to extract geo-file data from Pierce County's GIS. This paper will discuss issues involved in using data from external sources and benefits of using a single data source for all geo-coding applications.

Title: Well-head Protection and Data Dissemination, www

Presenter: Ray Hanowell, Source Protection Coordinator, and Kerry Serl, GIS Analyst, Tacoma - Pierce County Public Health Dept.

Summary: A GIS application has been developed to aid in managing the Group A Source Protection Program. This includes importing GPS wellhead locations, and using GIS functionality to aid in locating possible pollution sources for notification or for spill response scenarios.

Title: Project Impact

Presenter: Tom Nolan, GIS Manager Seattle Public Utilities.

Summary: Project Impact is a FEMA program that provides funding to local governments for disaster planning and retrofitting. Moneys are allocated through a grant process. The City of Seattle received a Project Impact grant and the city's GIS provided data and analysis for the project.

LAND RECORDS TRACK – COMMODORE ROOM

Moderator: Karen Zollman

Title: Washington Cadastral Framework: Bringing the Data Together

Presenter: Greg Tudor, PLS, Wa. Cadastral Framework Project Manager, Dept of Natural Resources

Summary: The Washington Cadastral Framework Project is a National Spatial Data Infrastructure (NSDI) project which is demonstrating the benefits of building partnerships, sharing costs, coordinating work, standardizing data and software, documenting data, improving data, and sharing data. The Washington Cadastral Framework Project has developed the NSDI Cadastral Data Content Standard into a framework database and the processes for integrating the best available data from partner organizations into the database. The framework database is accessible over the Internet. Partners include federal, state, regional, county, and private organizations. The project is also contributing to a national effort that is developing cadastral data and software. The Washington Cadastral Framework Project is entering a third phase to determine the operational costs and the organizational benefits of sharing data so that a permanent funding plan can be developed.

Title: Training for Cadastral Mapping and Maintenance, Grid Maintenance

Presenter: Karen Zollman, GIS Services Mgr. White Shield, Inc.

Title: Survey Control Database

Presenter: Gavin Schrock

Summary: Staff training for cadastral map maintenance has been a major concern. Sometimes staff does not have the ability to maintain parcel maps to the accuracy that they were created by a consultant. They do not know how to use and maintain the Public Land Survey System Grid that provides the map framework when reviewing new plats and records of survey. These issues and resources for continuing education will be discussed.

VENDOR TRACK – BOARD ROOM GEONORTH – Russ Michel

10:00 – 10:30

Break

10:30 – 12:00

BUSINESS NEEDS TRACK – MARINE ROOM

Moderator: Stan Gerber

Title: Implementing Digital Orthophotos *

Presenters: Donna Wendt, City of Tacoma & Stan Grochowski, GIS Programmer, Pierce County

Summary: Implementation of digital orthophotos brings new and exciting application potential for local governments, but it also has some issues that need to be addressed before they can successfully be distributed to the organization. This paper will address some of these issues and applications.

Title: HOV Web Tool Data Retrieval System *

Presenters: Bill Brown, Wa State Department of Transportation, Wa State Transportation Center (TRAC)

Summary:

Title: Applications development *

Presenter: Eric Bishop or Marty Balikov, ESRI

Summary:

TRANSPORTATION TRACK – SPINNAKER ROOM

Moderator: Dan Dickson, CRAB

Title: A Method for Road Data Sharing in the Puget Sound Region

Presenter: Andy Norton, Puget Sound Regional Council

Summary: At the Regional Council, road intersection nodes are uniquely coded in our regional street centerline dataset. This dataset is built from street centerlines contributed by the four counties in the region and thus must be updated as each county updates their centerlines. Unique node identifiers can contribute to both present and future road feature and event data sharing between the four counties and potentially to the cities and state.

Title: Visualizing Highway Accident Data with ArcView

Presenters: Todd Slind, CH2MHill

Summary: This is a demonstration on how to preprocess WSDOT accident records in Excel and display them using ArcView's built in dynamic segmentation tools and the State Route coverage.

Title: GPS travel time tool for the Transit Speed and Reliability at King Co Metro

Presenter: Rob Terpilowski, King Co. Metro Transit Speed and Reliability Project

Summary: Developing software to collect GPS data via a PalmPC device, anticipating easier data collection on board buses.

ENVIRONMENTAL TRACK – COMMODORE ROOM

Moderator: Dan Cardwell

Title: Integrating Science and Management for Hazards Mitigation: The Southwest Washington Coastal Erosion Study

Presenter: Brian Voigt, Coastal Planner, Wa State Dept of Ecology

Summary:

Title: Road's End GIS Lab: The Cedar River Watershed GIS supporting a Habitat Conservation Plan

Presenter: Tom Van Buren, Watershed Management Division, Seattle Public Utilities

Summary: The Cedar River Watershed Habitat Conservation Plan (HCP) is a 50-year, ecosystem-based plan that will cost the City of Seattle ratepayers approximately \$83.7 million to implement. It ensures the City of Seattle's drinking water supply and protects and restores habitats of 83 species of fish and wildlife that may be affected by water supply and hydroelectric operations on the Cedar River. The Watershed Management Division Road's End GIS Lab was used extensively to develop the Cedar River Watershed HCP and is well positioned to support its implementation. Chief among the objectives of the Lab is the continued development of application tools, like our Intranet GIS web server, that make a desktop decision support system available to City staff.

Title: Pacific Salmon Information Network

Presenters: Gene Thorley, USGS

Summary: Discussion of the ESA and the USGS.

Title: Land Cover Characterization

Presenters: Nancy Tubbs, USGS

Summary: Overview of Land Cover Characterization and Landsat 7 Programs.

VENDOR TRACK – BOARD ROOM

ESRI Eric Bishop/Marty Balikov

12:00 – 1:00 JIB ROOM

Lunch, Awards, Nominations

1:00 – 2:30

HOT APPS/COOL GUIs – JIB ROOM

Moderator: Dennis Higgins

Harvey Kocher, Emory Horvath - Seattle: "Adding Maps to a Web-based Emergency Call Center Interface"

Michael Payne - Pierce County: "CrimeStar Air"

Carol Kenstowicz - Wa State Trans Center: "New Developments in Web Delivery of Highway Info"

Russ Michel - Cowlitz County Land Information Data Browser

Keith Metzger - MapGuide

VENDOR TRACK – BOARD ROOM

eTERRA AND AUTODESK Steve Colligan

Washington URISA 2000 Sponsors

Autodesk

GIS at Autodesk provides powerful tools to help you efficiently access, maintain, analyze, and communicate your spatial information. AutoCAD Map® 2000 provides easy access to more of your data, specialized tools that simplify the creation and maintenance of maps, sophisticated analysis capabilities, and productivity improvements for mapping and GIS professionals. With Autodesk World, we are breaking the data integration barrier by providing seamless access to existing GIS data, in their native formats. In the year 2000, that integration and access will only be increased as the GIS goes mobile with point-of-work applications. <http://www.autodesk.com/solution/gis>

Brodie Group

Brodie Group GIS consultants specialize in the planning and implementation of Geographic Information System technology, particularly using ARC/INFO™, ArcView™, and AutoCAD™ Map™ development tools. Services include GIS implementation planning, applications development, data capture and training. We serve a variety of industries including utilities, forestry/natural resource companies as well as federal, state and local government agencies. The Brodie Group provides GIS services directly to end-user firms or agencies and also, as GIS specialist sub-consultants, to consulting scientists, engineers and planners. <http://www.brodiegroup.com>

ESRI

For more than 30 years, ESRI has been the world's leading provider of geographic information system (GIS) software. ESRI technology is used by more than 220,000 clients worldwide, including most federal agencies, national mapping agencies, 45 of the top 50 petroleum companies, most forestry companies, and many others in dozens of industries. Our software is the de facto standard for managing geographic information in local government. ESRI works closely with major technology partners also maintains business relationships with more than 700 outstanding developers and value-added software resellers who create new applications and combine our technology with their data, hardware, and consulting services. <http://www.esri.com>

eTerra

eTerra, formerly GeoNorth Technical Drawing Division, was established in 1994. eTerra serves clients throughout Alaska and the Pacific Northwest with products and development focus around solid partnerships with Autodesk, Oracle, Space Imaging, ERMapper, Hitachi, Hewlett Packard and other value added vendors and services. Our market focus is on smaller governments, larger government public works departments, utilities and private clients seeking a high level of integration of GIS, database, CAD and Internet technologies (Enterprise Solutions). We provide a wide offering of services and expertise that include Consultative Product Sales, Technology planning, data development, data integration, mentoring, application development and certified software user training. <http://www.eterra-tech.com>

Engineering Support Unit

The Engineering Support Unit (ESU) is a full-service GIS production shop located at the Oregon State Correctional Institution in Salem, Oregon. ESU offers a wide variety of quality GIS and CAD production services for both intrastate and interstate public and private sector businesses. All projects are estimated, planned, and reviewed by professional GIS staff, who are committed to providing top-quality services to our valued customers. ESU's mission is to develop business partnerships that provide GIS services while reducing the cost of government and private business operations and to provide meaningful training and work opportunities for inmates. <http://www.iwpsd.org>

Geoline Positioning Systems, Inc.

We are a growing company that specializes in providing clients with quality lines of instruments and supplies used for measuring, marking, and positioning. GeoLine is the #1 Trimble Surveying Systems dealer in the United States. We provide provides sales, service, training, lease and rentals of surveying instruments, software and engineering supplies to land surveyors, engineers, contractors, foresters, miners, mappers....anyone who needs to know where they are on earth! <http://www.geoline.com>

GeoNorth

We take great pride in being an industry leader and progressive information technology consulting company dedicated to delivering value to our customers through integration and innovation of database, Internet/Intranet, and geographic information systems (GIS). Our primary focus is to develop and implement leading-edge desktop and web-based solutions to search, display, analyze, publish, and maintain tabular and spatial data using ESRI products and technologies. In addition, we also offer a full range of consulting services. For more information about GeoNorth, please come by the ESRI exhibit booth or see our web site at <http://www.geonorth.com>.

Kroll Map

The Kroll Map Company is a Seattle based firm that has provided maps and mapping services in Washington State for 90 years. We are currently supplying the following products and services to various levels of government, utilities and private enterprise: Custom digital cartography using client data or existing Kroll mapping, large format scanning services, GIS, and CAD mapping services, geo-referencing services, map data licensing, and land survey records. <http://www.krollmap.com>

Marshall and Associates

Marshall is a consulting firm specializing in planning, designing, and implementing spatially-enabled information systems to support resource planning. We have designed and developed systems of various levels of complexity, for a large number of government and private agencies throughout the Northwest. This experience includes initial design studies and reports, application development (both Internet-based and stand-alone), database development, training, and technical support. We strive to develop technically sound, long-term solutions for our clients. <http://www.marshallgis.com>

Momentum Systems, Ltd.

Momentum Systems, Ltd., develops, markets and supports SV-SourceView, a suite of software applications for image management and electronic sharing of documents, maps and large-scale engineering drawings. Many commercial and government organizations have a need to provide fast access to vast quantities of documents and engineering drawings. The originating systems, such as CAD systems, that create these documents are typically complex systems requiring trained user specialists. SV-SourceView provides a way for users who are not trained in the complex originating systems to easily navigate through and view these reference materials. <http://www.sv-sourceview.com>

Triathlon, Inc. (formerly Nies Mapping Group)

Nies Mapping Group, Inc., is now the U.S. Headquarters of Triathlon, a full-service geomatics firm providing traditional photogrammetric, topographic, planimetric and cadastral mapping in addition to digital orthophoto production, Geographic Information System (GIS), forestry inventory mapping, field surveying and digital mapping consulting engineering services. Triathlon is a fully owned subsidiary of MacDonald Dettwiler Information Services (MDIS), a full service spatial information company providing imaging, mapping and value-added processing services for land and resource management applications to government and commercial clients worldwide. <http://www.tmc.bc.ca/nies/pierce.html>

Roy F. Weston

WESTON's Knowledge Systems & Solutions (KS2) Division specializes in Geographic Information Systems (GIS), Facility Management Systems (FMS), workflow automation, and web-based systems. KS2™ knowledge-based systems and solutions enable clients to easily access and apply relevant data, identify problems, and properly manage their operations. Web-Based systems include Virtual Communities, and Virtual Private Networks (VPN). These products and services enable clients to more effectively collaborate, access information, and transact business via the Internet using a standard Web browser. <http://ks2.net>

Space Imaging

Space Imaging has quickly become a world leader in digital Earth information to better map, measure, monitor, and manage the world we live in - from our national assets to global crop production. The addition of IKONOS, the world's first one-meter resolution, commercial imaging satellite, to Space Imaging's portfolio enables the company to produce more economical information products with delivery timelines that far exceed the standards in the marketplace.