



2012 Web Mapping Tools Meeting

May 16, 2011: 9:00 am – 4:30 pm,
 Community Room, Oregon Coast Community College
 400 SE College Way Newport, OR 97366

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Agenda

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| 9:00 am – 9:30 am: | Registration and lunch orders |
| 9:30 am – 9:45 am: | Introduction and Welcome |
| 9:45 am – 9:55 am: | John Sharrard – Web mapping Overview |
| 9:55 am – 10:30 am: | John Sharrard (ESRI) – Web mapping and applications with ArcGIS Online |
| 10:30 am – 11:00 am: | BREAK and poster session |
| 11:00 am – 12:00 pm: | Rachel Nehmer and Mukesh Subedee (USGS) – Overview of using and creating Web Map Services |
| 12:00 pm – 1:30 pm: | LUNCH and poster session |
| 1:30 pm – 2:00 pm: | Eli L Adam (Lincoln County) – Web GIS for Local Government with GeoMoose |
| 2:00 pm – 2:30 pm: | Dr. Helen Jenny (OSU) – What makes a good Web map? |
| 2:30 pm – 3:00 pm: | BREAK and poster session |
| 3:00 pm – 3:30 pm: | Andrés Ferraté (Google Maps Developer Relations) – Data Visualization and Analysis with Google Maps |
| 3:30 pm – 4:00 pm: | Tim Welch and Matt Perry (Ecotrust) – Madrona - Create. Analyze. Decide. |
| 4:00 pm – 4:15 pm: | Closing |

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Presentations

Webmapping Overview and Web mapping and applications with ArcGIS Online

9:55– 10:30

John Sharrard, ESRI

Abstract:

During the last year, the capabilities of the ArcGIS Online mapping system have been greatly extended. The presentation will show how to accomplish the following: upload CSV, Shapefile, GPX and KML data sources into the ArcGIS Online Cloud and publish them in an online map; embed maps into a personal or organization's website; and deploy maps to mobile devices including iOS, Android, and Windows Phone 7. Mash up ArcGIS Server & ArcGIS Online hosted services, Web Mapping services (WMS), and KML services into intelligent maps and applications that offer great performance, excellent cartography, and interactive query and reporting capability.

About the Presenter:

John Sharrard graduated from Oregon State University (Geography/GeoSciences) and has been working in the GIS field for 25 years (seven years with State of Oregon, and 18 years at ESRI). Currently he works as a Solutions Engineer for ESRI in the Northwest Region. GIS areas of expertise: ArcGIS Desktop and Server, 3D and LiDAR, transportation and logistics, redistricting, and cartography.

Overview of using and creating Web Map Services

11:00 – 12:00

Rachel Nehmer and Mukesh Subedee, USGS

Abstract:

The National Atlas team talks about the consumption and production of Web Map Services (WMS) using the hundreds of layers available in the National Atlas as an example. Consumption will cover how to use the services in many of the common GIS viewing applications including ArcGIS products, Quantum GIS, OpenLayers, and GeoCommons. Production will cover MapServer, MapScript, and the decisions we made to quickly put up all of our layers into an OGC compliant WMS solution.

About the Presenters:

Rachel Nehmer has an MS in Computer Science from the University of Oregon. She first got interested in GIS working with the Geography department to develop a digital campus map for the blind that use haptic devices and sound for navigational tools. This project was the start of her career in developing GIS applications and eventually led her to the USGS where she is the lead developer for the National Atlas of the United States program. At the National Atlas, Rachel is responsible for getting national level GIS data, products, and services ready for both professional users and the general public.

Mukesh Subedee is a student contractor at USGS stationed in Newport, OR. He has been involved with National Atlas, working in the research and development of Web Mapping Services. He holds B.S. in Computer Engineering from Tribhuvan University, Nepal and an M.S. in Computer Science from University of Nebraska-Lincoln.

Web GIS for Local Government with GeoMoose

1:30 – 2:00

Eli L Adam, Lincoln County Oregon

Abstract:

Web GIS is becoming increasingly important and needed for Local Governments. There are many choices with widely varying capabilities, benefits, and drawbacks. The difficulty and complexity of various web mapping options also varies widely. Selection of GeoMoose for Lincoln County's web GIS will be covered in detail including background, selection criteria, implementation, and demos.

About the Presenter:

Eli L Adam has been working with geospatial technologies for eight years, currently as a GIS Analyst for Lincoln County, Oregon and previously in the private sector as an archaeologist. Areas of work include supporting end users, data production and management, web mapping, cartography, and all other geo-related activities. He is active in CCGISUG, the PDX OSGeo chapter, the GeoMoose project, and various other professional organizations.

What makes a good Web map?

2:00 – 2:30

Dr. Helen Jenny, OSU

Abstract:

In designing a web mapping application, creators often focus solely on the technology and forget to invest time in creating a cohesive and user-friendly design. I will cover designing the map itself (e.g. what is a good/bad choice for a background map, map symbolization and colors especially for the web), and strategies for designing a user-friendly interface (e.g. UI elements and layout, map navigation, interactivity and animation).

About the Presenter:

Dr. Helen Jenny is currently an Institutional Postdoctoral Research Associate in the College of Earth, Ocean and Atmospheric Sciences at Oregon State University. Her research interests focus on 3D terrain cartography, web mapping, and visualization of spatial and spatio-temporal phenomena related to Earth Sciences. As a graduate student at the Federal Institute of Technology (ETH Zurich), Switzerland/Institute of Cartography and Geoinformation, she investigated geometric deformation methods for the creation of 3D maps under the advisement of Prof. Dr. Lorenz Hurni. She holds an M.S. in Geography from the University of Stuttgart, Germany and a Ph.D. in Geomatics from ETH Zurich.

Data Visualization and Analysis with Google Maps

3:00 – 3:30

Andrés Ferraté, Google Maps Developer Relations

Abstract:

Andrés will discuss the various tools and technologies available for spatial data visualization and analysis with Google Maps, including the Google Maps API, Google Earth, and Google Earth Builder.

About the Presenter:

Andrés leads the Geo Developer Relations team. Prior to joining the Geo team, he worked as a Developer Advocate for Google TV, helping developers build cool and compelling applications for that platform. Andrés has a broad range of experience, including 15 years with various geospatial technologies in the private, public, and non-profit sectors.

Abstract:

Madrona is a framework for creating tools for decision support and spatial planning at any geography and scale. It provides a set of building blocks and design patterns for software developers to quickly create tools to meet unique decision making and spatial planning challenges. These tools can be for individual use or support a large group in a collaborative spatial planning process. We'll touch on the design of Madrona, show you how to quickly get up and running with a new app and then demonstrate a variety of features currently in production. Madrona is free and open source.

About the Presenters:

Tim Welch - Senior Developer/Product Manager Tim is the head of software development at Ecotrust and the product manager for Madrona. He helped establish Ecotrust at the forefront of innovative spatial planning with products such as Open OceanMap and MarineMap. Tim is dedicated to developing techniques and tools to help people create more resilient communities and economies through improved understanding and management of resources.

Matt Perry - Senior Developer Matt is the lead developer of Madrona bringing 10 years of experience in GIS and database management, software development, modeling, geo-statistics and data visualization. Matt has contributed to several open source projects including Madrona, MarineMap, Quantum GIS, Metacat, GDAL, Starspan, MapWindow and HostGIS Linux. His blog, perrygeo.net, has been a technical resource for the open source community since 2006.

Thank you to all of our sponsors, presenters, and attendees!

Please join us for a social event following the meeting at Rogue Ales Public House

Newport's Bayfront District: 748 SW Bay Blvd. Newport, OR 97365

The Central Coast GIS Users Group (CCGISUG) promotes networking, idea exchange, and education between GIS professionals, students, and others on the Central Oregon Coast involved in mapping and geospatial technologies.

We meet bimonthly on the second Wednesday from 12:15 to 1:45. Membership is free!

To join our listserv, please contact Sandy Gruber (Sandy@lincolncity.org).

For more information please visit <http://www.orurisa.org/ccgisug>