

# 2014 Geospatial Summit



The campus forum for communication, collaboration and information sharing in the geospatial sciences

**April 24, 2014 :: 9:00am to 4:30pm :: Pyle Center :: UW-Madison**

## Keynote Address #1

Prof. Steve Ventura,  
Soil Science and  
Environmental Studies,  
UW-Madison

*"A Place for Urban  
Agriculture"*



**9:00-9:45 am, Session A, Room 313, Pyle Center**

Growth in demand for locally produced food has generated (renewed) interest in urban food production, including backyard gardens, small commercial farms, community gardens, and new forms of agriculture. However, access to safe, secure land is a significant challenge in already developed areas. This talk will discuss issues of land tenure and land suitability analysis from site to city scales, and present cases from Madison and Milwaukee.

## Keynote Address #2

Prof. Annemarie Schneider,  
Center for Sustainability  
and the Global Environ-  
ment, UW-Madison

*"Mapping a Decade of  
Change: Urban Expansion  
and Growth in East Asia,  
2000-2010"*



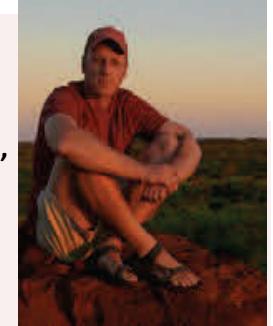
**1:15-2:00 pm, Session A, Room 313, Pyle Center**

We have entered the Urban Era: cities now form the basis of the human experience for the majority of the Earth's population. Numerous reports have emphasized that cities today must meet the needs of growing populations and expanding economies, while at the same time minimizing their environmental impacts. Expansion of built-up land is often the most direct environmental impact manifested by urban growth, with far-reaching regional and global implications for climate, hydrology, and biogeochemical cycles that often extend beyond municipal boundaries. In this talk, I will describe our recent efforts to develop a consistent methodology for mapping urban expansion across large areas using earth observation satellite imagery and census data.

## Keynote Address #3

Prof. Eric Compas,  
Geography & Geology Dept.,  
UW-Whitewater

*"Undergrads in the Cloud:  
Building and Managing an  
On-Campus Applied GIS  
Center"*



**3:45-4:30pm, Session A, Room 313, Pyle Center**

With changing technology and rising tuition, traditional undergraduate education is facing a relevancy crisis. At UW-Whitewater, we've seized the opportunity to create a GIS Center to experiment with transforming undergraduate GIS education. From tackling marketing and JavaScript to map services and cloud servers, our students work in a learning environment that builds both their professional and technical skills. This talk is a practical overview of the projects we've conducted and the challenges and successes we've encountered along the way.

# 2014 Geospatial Summit

## Geospatial Alliance Strategy Meeting

11:30 am—12:30pm, Room 313



**Open to anyone interested  
in advancing the Geospatial Alliance**

## Agenda

1. Introductions
2. Geospatial Summit Discussion/2015 Summit schedule
3. GIS Day schedule/format/planning
4. GeoAlliance future strategies/goals

**Len Kne, Associate Director of  
U-Spatial, University of Minnesota**

***"U-Spatial: The Story of a Start-up"***

**12:30pm—1:15pm, Room 313**



U-Spatial provides support for spatial research. This is our mission, but the real story is how we do this in a large, diverse organization that is built on individual freedom. My talk will give some background on how U-Spatial was created, review the first three years of U-Spatial, and our quest to become a self-sufficient service within five years.

Presently over 1,200 people at the University of Minnesota work with GIS, remote sensing or some other type of spatial research. U-Spatial provides services to these people with a one-stop GIS help desk; a range of training in GIS and remote sensing; consulting and grant writing services; and building an engaged community of spatial thinkers. We use several marketing approaches to meet our mission including surveys, symposiums, web sites, social media, and meetings--lots of meetings.



# 2014 Geospatial Summit Program

April 24, 2014, Pyle Center, UW-Madison

		Session A, Room 313	Session B, Room 309	Session C, Room 213
8:30 am		Coffee & bagels		
9:00 am - 9:45 am		Keynote #1. Steve Ventura, Soil Science & Environmental Studies, UW-Madison, "A Place for Urban Agriculture"		
break				
10:00 - 10:30 am		David Long & Bill Buckingham, UW-Madison, "Applied Pop Lab Work in Spatial Demographics and the Geography of Health"	Dirk Herr-Hoyman, UW-Madison, "Creating Farm Field Boundaries in ArcGIS Server"	Travis Flohr, UW-Madison, "Flipping the classroom: Teaching Introduction to GIS as an Applied Geodesign Project within Aurora, Colorado"
10:30 - 11:00 am		Chip Hankley & Peter Rafferty, UW-Madison, "Highway Travel Times: Mapping and Database Challenges"	Codie See & David Vogel, UW-Madison, "LinkWISCONSIN EBM Parcel Mapping Project: The story of a Wisconsin layer"	Jon Schwichtenberg, GRAEF, "Mobile Technologies for Municipal Applications"
11:00 - 11:30 am		Aleksandra Snowden & Tina Freiburger, UW-Milwaukee, "Alcohol Outlets and Robberies: Accounting for Neighborhood Characteristics and Alcohol Outlet Types"	Peter Herreid & Howard Veregin, Department of Administration & UW-Madison, "Building a Statewide Parcel Database for the Public"	Jo Ann Oravec, UW-Whitewater, "Post-Snowden Privacy Issues: How Does Privacy Affect Geospatial Teaching and Research?"
11:30 am - 12:30 pm	Lunch on your own	Geospatial Alliance Strategy Meeting (open to anyone interested in its mission)	There are numerous lunch options nearby on State Street. Or, if you're interested in learning more about the Geospatial Alliance or contributing ideas for future events, please attend the Geospatial Alliance Strategy Meeting in Room 313. Everyone is welcome! Please RSVP to Brenda Hemstead ( <a href="mailto:hemstead@wisc.edu">hemstead@wisc.edu</a> ) if you plan to attend.	
12:30 - 1:15 pm		Len Kne, Associate Director of U-Spatial, University of Minnesota, "U-Spatial: The Story of a Start-up"	Join us for a discussion with Len Kne, Associate Director of U-Spatial at the University of Minnesota. U-Spatial is a collaborative consortium that supports the spatial sciences, helping to eliminate duplication and fragmentation of campus resources. U-Spatial is supported by \$2.5 million in funding through 2017 ( <a href="https://uspatial.umn.edu">https://uspatial.umn.edu</a> ).	
1:15 - 2:00 pm		Keynote #2. Annemarie Schneider, Center for Sustainability & Global Environment, UW-Madison, "Mapping a Decade of Change: Urban Expansion & Growth in East Asia, 2000-2010"		
break				
2:15 - 2:45 pm		Russell Dengel & Dave Parker, UW-Madison, "SSEC RealEarth: Accessing Real-time Atmospheric Data Using a Web Map Service"	Jaime Stoltenberg, AJ Wortley & Chloe Quinn, UW-Madison, "GeoData@ UW-Madison: Disseminating Data to Campus Users via OpenGeoportal"	Carl Sack, UW-Madison, "Zero to Mashup in 1200 Seconds Flat"
2:45 - 3:15 pm		Sam Batzli, UW-Madison, "Alternative Access to Landsat 8 Imagery"	Curtis Pulford, Department of Administration, "State Land Information Reporting and Information Dissemination"	Nancy Wiegand, UW-Madison, "GeoQuery Tool to Pose Spatial Queries over the Web"
3:15 - 3:45 pm		Mutlu Ozdogan (and others), UW-Madison, "Updating Wisconsin's Land Cover Map: The Old, the New, and the In-Between"	David Hart, UW-Madison, "Geospatial Technologies Supporting Great Lakes Cultural Heritage Tourism: Enhancing the Wisconsin Coastal Guide"	Robert Reuschlein, Real Economy Institute, "Global Warming Pause"
3:45 - 4:30 pm		Keynote #3. Eric Compas, Geography & Geology, UW-Whitewater, "Undergrads in the Cloud: Building and Managing an On-Campus Applied GIS Center"		
4:30 pm		Social Event at the City Bar on State Street		

Pick up your nametag at the registration desk outside Room 313

# 2014 Geospatial Summit

## Session A — Abstracts

### David Long & Bill Buckingham

Applied Population Laboratory, UW-Madison

#### "APL work in Spatial Demographics & the Geography of Health"

The Applied Population Lab continues to build new tools and data sets to support spatial analysis in the domains of demography and health. This presentation covers burgeoning research and ongoing work in these areas.

### Chip Hankley & Peter Rafferty

TOPS Laboratory, UW-Madison

#### "Highway Travel Times: Mapping and Database Challenges"

The National Performance Management Research Data Set (NPMRDS) is available as of October 2013 and provides detailed travel times on the National Highway System. The data set, developed and compiled by Navteq/Nokia/HERE, is provided by the US Department of Transportation to states for research purposes. It is updated monthly and composed of travel times in five-minute intervals by Traffic Message Channel (TMC) road segments. We will present some of the mapping and data integration challenges we faced while working with this very large data set, and the steps we took to meet them.

### Aleksandra Snowden & Tina Freiburger

UW-Milwaukee

#### "Alcohol outlets and robberies: accounting for neighborhood characteristics and alcohol outlet types"

There is growing evidence of an ecological association between alcohol outlet density and violence. However, to date most ecological studies have grouped all crimes or all violent crimes into one broad category, and less is known about the influence of alcohol outlets, including different types of alcohol outlets such as bars and restaurants or liquor stores, on robberies, in particular. Using Milwaukee, Wisconsin, block groups as units of analysis and controlling for several structural characteristics associated with robbery rates, we estimated spatially lagged regression models to determine if the variation in alcohol outlet density, including total outlets and disaggregating by on- and off-premise outlets, is related to robbery density. Results suggest that total alcohol outlet density and off-premise alcohol outlet density were significantly associated with robbery density. On-premise alcohol outlet density was not significantly associated with robbery density. This research not only extends existing research to examine the role of alcohol outlet densities and robberies, but may also hold important policy implications for local jurisdictions.

### Russell Dengel & Dave Parker

Space Science and Engineering Center, UW-Madison

#### "SSEC RealEarth: Accessing Real-time Atmospheric Data Using a Web Map Service"

The University of Wisconsin-Madison Space Science and Engineering Center (SSEC) hosts real-time geophysical data through its RealEarth Web Map Service. RealEarth can deliver Raster and Vector images from operational orbital and terrestrial sources. Individuals ranging from research scientists to grade school students can access and manipulate a wide variety of datasets using native and web-based applications.

### Sam Batzli

Space Science and Engineering Center/WisconsinView, UW-Madison

#### "Alternative Access to Landsat 8 Imagery"

The US Geological Survey (USGS) has stewardship over the Landsat Archive at the EROS Data Center outside of Sioux Falls, SD. In 2008, USGS announced plans to provide all archived Landsat scenes at no charge to all users. The opening of this continuous 40-year archive ushered in a new era of land use and land cover change analysis around the globe. Removal of the financial barriers to access provided opportunities for broader longitudinal studies and implementation of innovative vertical pixel-based analysis through systems such as Google Earth Engine. USGS revamped access to their data through Glovis and EarthExplorer offering bulk downloads, map-based previews, and expanded format options. However, their shopping-cart approach continues to limit automation for near real-time applications. Working with the USGS EROS Data Center, the Space Science and Engineering Center at the University of Wisconsin-Madison is testing alternative access points to current Landsat 8 imagery for use in meteorological and emergency management use-cases. This presentation describes our progress.

### Mutlu Ozdogan

UW-Madison

#### "Updating Wisconsin's Land Cover Map: The Old, the New, and the In-Between"

Many environmental and natural resource management questions in Wisconsin require accurate and timely information on land-cover and land-use. However, it has been over 20 years since the last statewide efforts to systematically collect, update, and disseminate this most fundamental form of land information under the umbrella of Wiscland land cover product. Several developments occurred in the intervening two decades. On the technical side, the US Geological Survey (USGS) released its entire satellite data archive at no cost, making it possible to study state's land-use/

## Session A — Abstracts

land-cover on a repeated and low-cost basis. At the same time, new computer-based machine learning algorithms have found their way into regional remote sensing investigations that help provide improved accuracies for map products. On the application side, the environment and the natural resources of our state are under increased pressure from population growth, pollution, and bioenergy prospects. With these issues in mind, UW-Madison and WI-DNR have joined efforts to update the Wiscland digital land cover product with funding from the Federal government. Our approach relies on: 1) state-of-the-art image classification algorithms to identify and map Wisconsin's heterogeneous landscapes; 2) unprecedented amount of freely available satellite observations that capture the temporal nature of these landscapes; and 3) long-term commitment from local and state agencies for institutional support. The new map will have land cover categories similar to the original Wiscland with a few exceptions with an expected deliver date of summer 2016.

*Co-authors: Jim Lacy, Howard Veregin, Courtney Klaus, Janel Pike*



## Session B — Abstracts

### Dirk Herr-Hoymann

Soil Science, UW-Madison

#### "Creating Farm Field Boundaries in ArcGIS Server"

SnapPlus ([snapplus.wisc.edu](http://snapplus.wisc.edu)) is developing the means to create field boundaries for farm fields in an ArcGIS Server JSAPI application which allows the user to create and save geospatial data with a web-browser. This presentation will do a demo and give lessons learned about ArcGIS Server based development.

### Codie See & David Vogel

State Cartographer's Office, UW-Madison

#### "LinkWISCONSIN EBM Parcel Mapping Project: The story of a Wisconsin layer"

The State Cartographer's Office is collaborating with the Wisconsin Land Information Program at the Department of Administration to develop a statewide address point layer based on county address and parcel data. This layer will serve the needs of the Public Service Commission of Wisconsin and the LinkWISCONSIN initiative. This presentation will focus on technical and organizational progress that the project has accomplished and discuss the details to our final steps.

### Peter Herreid & Howard Veregin

Dept. of Administration and State Cartographer's Office, UW-Madison

#### "Building a Statewide Parcel Database for the Public"

This presentation will focus on the "Version 1 Statewide Parcel Map Database Project" – an effort to build a publicly available statewide parcel database for Wisconsin. This project is part of a larger Statewide Parcel Map Initiative, a multi-year collaborative effort of the Department of Administration, State Cartographer's Office, and local governments. These efforts stem from Act 20, the state's 2013-15 biennial budget, which requires the Department of Administration to implement a parcel mapping plan and mandates that local governments make certain parcel data available online by 2017. This presentation will outline the steps being taken toward these goals.

### Jaime Stoltenberg, AJ Wortley, and Chloe Quinn

UW-Madison

#### "GeoData@UW-Madison: Disseminating data to campus users via OpenGeoportal"

The method for disseminating geospatial data for educational use on the UW-Madison campus is in the process of undergoing a major change. Since 2005 the Robinson Map Library has been acquiring local geospatial data for use in research

## **Session B — Abstracts**

and teaching, resulting in nearly one terabyte of data currently in the archive. However, with demand steadily increasing, manually handling individual data requests is an unsustainable service model. In a collaborative effort between the State Cartographer's Office and the Robinson Map Library, we have implemented OpenGeoportal (OGP) as an online solution for more efficient data sharing. In this presentation we will share the details of the project including: authoring metadata for local datasets, technical development of the OGP application, UW-Madison user authentication, and future plans for the data archive.

### **Curtis Pulford**

Wisconsin Department of Administration

#### **"State Land Information Reporting and Information Dissemination"**

The Department of Administration (DOA) has changed the format by which agencies report on their land information and systems. This year the reports will have two parts, taking the form of an inventory and sharing of metadata. Some 32 state agencies and campus stewards of geospatial data have been asked to submit reports. DOA has also begun a project to look at the infrastructure needed to discover and disseminate authoritative geospatial information. This project's intent is to inform an implementation of state Repository and Geoportal services. To do this the project will examine business requirements, standards requirements, technology options, and the governance required to operate sustainable systems. Our presentation to the GeoAlliance will discuss how and why the land information reporting is changed; the potential benefits for state stakeholders, and; how the report products are being aggregated and made useful in Repository and Geoportal services. During the presentation, we discuss the reporting survey questions, examine some of the data collected, see examples within a populated Repository and Geoportal, and entertain ideas for improvement.

### **David Hart**

Sea Grant Institute, UW-Madison

#### **"Geospatial Technologies Supporting Great Lakes Cultural Heritage Tourism: Enhancing the Wisconsin Coastal Guide"**

The Wisconsin Coastal Guide (<http://wisconsincoastalguide.org/>) encourages those travelling the Great Lakes Circle Tour to leave busy highways and instead explore scenic roads and the local streets of coastal communities. Layers on the interactive map include the Circle Tour route, parks, beaches, lighthouses, and shipwrecks. Click on a lighthouse and quickly link to one of the many websites that provide photos and detailed information about its history. Click on a shipwreck and learn about its ser-

vice history and final voyage, along with details about where to dive. Panorama photos have been taken at the public access sites to the Great Lakes in Wisconsin. Click on one of the photo icons and you can navigate a 360 degree field of view and note the direction you are viewing on a linked vicinity map. An information feed from Portal Wisconsin – the statewide cultural arts calendar – provides details about upcoming events in coastal communities. Recent efforts include enhancing the guide to support mobile technologies and collaboration with coastal programs around Lake Michigan to create a regional coastal access guide.

### **Travis Flohr**

UW-Madison

#### **"Flipping the classroom: teaching introduction to GIS as an applied geodesign project within Aurora, Colorado"**

Geographic Information Systems (GIS) curriculum in landscape architecture is under-preparing students to use GIS in a meaningful way. GIS education within landscape architecture has typically relied on instruction from other departments or on abstract introductory GIS textbooks that are geared towards non-design professionals. These instructional methods do not facilitate the depth of understanding or application that landscape architects need to model and evaluate design impacts on the built environment. In this presentation I will present a flipped classroom curriculum case study. Landscape architecture curriculum prescribes a set of accredited coursework that leaves little time for students to take advanced classes in GIS. Typically, introduction courses provide the students with the theory of GIS and basic GIS skills, but lack advanced critical understanding of analysis and modeling. To address this issue students need to be prepared to apply GIS more quickly, while not becoming GIS experts as would be more typical in Geography's GIS curriculum. Flipping the classroom addressed the need to educate landscape architects in critically applying GIS analysis and modeling within the context of design. Flipped classrooms are also increasingly seen as a better way to teach. Science, Technology, Engineering, and Math (STEM) pedagogical research shows that teaching theory before application do not foster retention or critical thinking. Flipping the classroom allows students to develop critical thinking skills while learning theory through application. This was evident in the fall 2014 GIS class at the University of Colorado Denver's Landscape Architecture Department. This flipped class provided students with meaningful introductory GIS skills, while requiring students to critically apply design impact analysis and modeling within Aurora.

## 2014 Geospatial Summit

### Session C — Abstracts

**Jon Schwichtenberg**

GRAEF

#### **"Mobile Technologies for Municipal Applications"**

In today's GIS world, there is a lot of rich data that can be used to assist communities to enhance their day to day activities. Municipalities often do many inspection functions, including sidewalk maintenance, building inspection, sign inventories, utility pipe cleaning, hydrant flushing and more. GIS Mobile Applications allow for data to be more readily accessible and allow for more efficient field data entry.

**Jo Ann Oravec**

College of Business and Economics, UW-Whitewater

#### **"Post-Snowden Privacy Issues: How Does Privacy Affect Geospatial Teaching and Research?"**

The presentation explores how personal privacy is affected by geospatial applications, with an emphasis on how recent revelations about government surveillance have altered societal discourse. It provides specific cases of new apps and other software products designed to protect privacy and reputation. The presentation extends the discussion to the organizational level, discussing how institutions are dealing with surveillance and reputational attacks.

**Carl Sack**

Dept. of Geography, UW-Madison

#### **"Zero to Mashup in 1200 seconds flat"**

Got some data? Want to make an interactive web map? Sure, you can rely on some point-and-click application for an automatic (and sub-optimal) solution--but what fun is that? Using an open-source code library can give you the most flexibility for the coolest slippy map mashups. This session will present a knock-your-socks-off lightning start-to-finish example using the Leaflet JavaScript library.

**Nancy Wiegand**

Space Science and Engineering Center, UW-Madison

#### **"GeoQuery Tool to Pose Spatial Queries over the Web"**

This talk is about semantic technology in the geospatial area. In particular, a GeoQuery tool will be presented to pose queries over linked spatial data (i.e., data in RDF format). Linked data are queried using SPARQL, but there is a recent extension to SPARQL to add spatial operators. This language, called GeoSPARQL, allows spatial operations to be done over the Web. In essence, it enables a Geospatial Semantic Web. Because writing GeoSPARQL queries is difficult, however, we developed the

GeoQuery tool to help users pose queries. Other projects will be presented as time permits, such as a Web application to see how different land use codes can be resolved.

**Robert Reuschlein**

Real Economy Institute

#### **"Global Warming Pause"**

The IPCC fifth summit has no explanation for the 15 year pause in global warming. My Earth Cycle theory explains it in detail.



# 2014 Geospatial Summit

## Attendees

Kabindra Adhikari, FD Hole Soils Lab, Dept. of Soil Science, UW-Madison  
Graham Adsit, School of Medicine  
Matthew Axler, UW-Madison  
Randy Banetzke  
Sam Batzli, Space Science and Engineering Center  
Michael Brunner  
Bill Buckingham, UW-Madison Applied Pop Lab  
Eric Compas, UW-Whitewater  
Lincoln Cruz, Jay's Tree Care/Arborists  
Elise Cruz, City of Ashland, WI- City Planner  
John Czaplewski, UW - Madison Geoscience Department  
Jeff DeMuth, Wisconsin Society of Land Surveyors  
Russell Dengel, UW - SSEC  
Patrick Donahue, Student  
Blake Draper, USGS  
Troy Everson, Dane County Planning and Development  
Katie Fallon, UW-Madison  
Travis Flohr, UW-Madison  
Tina Freiburger, UW-Milwaukee  
Adam Freihofer, Wisconsin Department of Natural Resources  
Cid Freitag, UW Madison DoIT Academic Technology  
Hannah Friedrich  
William Gartner, UW-Madison Geography  
Donna Genzmer, University of Wisconsin-Milwaukee  
Martin Goettl, Geography & Anthropology, UW-Eau Claire  
Michael S Goodman, retired  
Paul Gunther, CALS  
Douglas Hadley, Department of Landscape Architecture  
Chip Hankley, UW TOPS Laboratory  
Angelina Hanson, UW-Madison GIS Cert. Program  
John Harrington, Landscape Architecture, UW-Madison  
David Hart, UW-Madison  
David Helmers, UW Forest & Wildlife Ecology  
Brenda Hemstead, State Cartographer's Office  
Peter Herreid, State Agency/DOA  
Dirk Herr-Hoymann, UW-Madison Soil Science  
Michael Hinke  
Jason Hochschild, Association of State Floodplain Managers  
Michael Hopfensperger  
Josephine Horton  
Morgan Jarocki  
Youn Hee Jeong, UW-Madison  
Bo Jiang  
Niels Jorgensen, UW-Madison, Nelson Institute  
Shi-Teng Kang  
Laini Kavaloski, UW-Madison English dept  
Sarah Kemp, Applied Population Lab  
Hyun Kim  
Phil Kim, Wisconsin School of Business  
Andrew King, UW-Madison student  
Courtney Klaus, DNR Division of Forestry  
Len Kne, University of Minnesota  
Gerry Kokkonen, Jefferson County Land & Water Conservation Dept  
Jim Lacy, State Cartographer's Office  
Angela Limbach, UW GIS Certificate Program  
Rebecca Lin, UW Madison student  
Jing Liu  
David Long, UW Applied Population Lab  
Krissy Lukens, St. Norbert College  
Makie Matsumoto-Hervol, Geography/environmental studies major

# 2014 Geospatial Summit

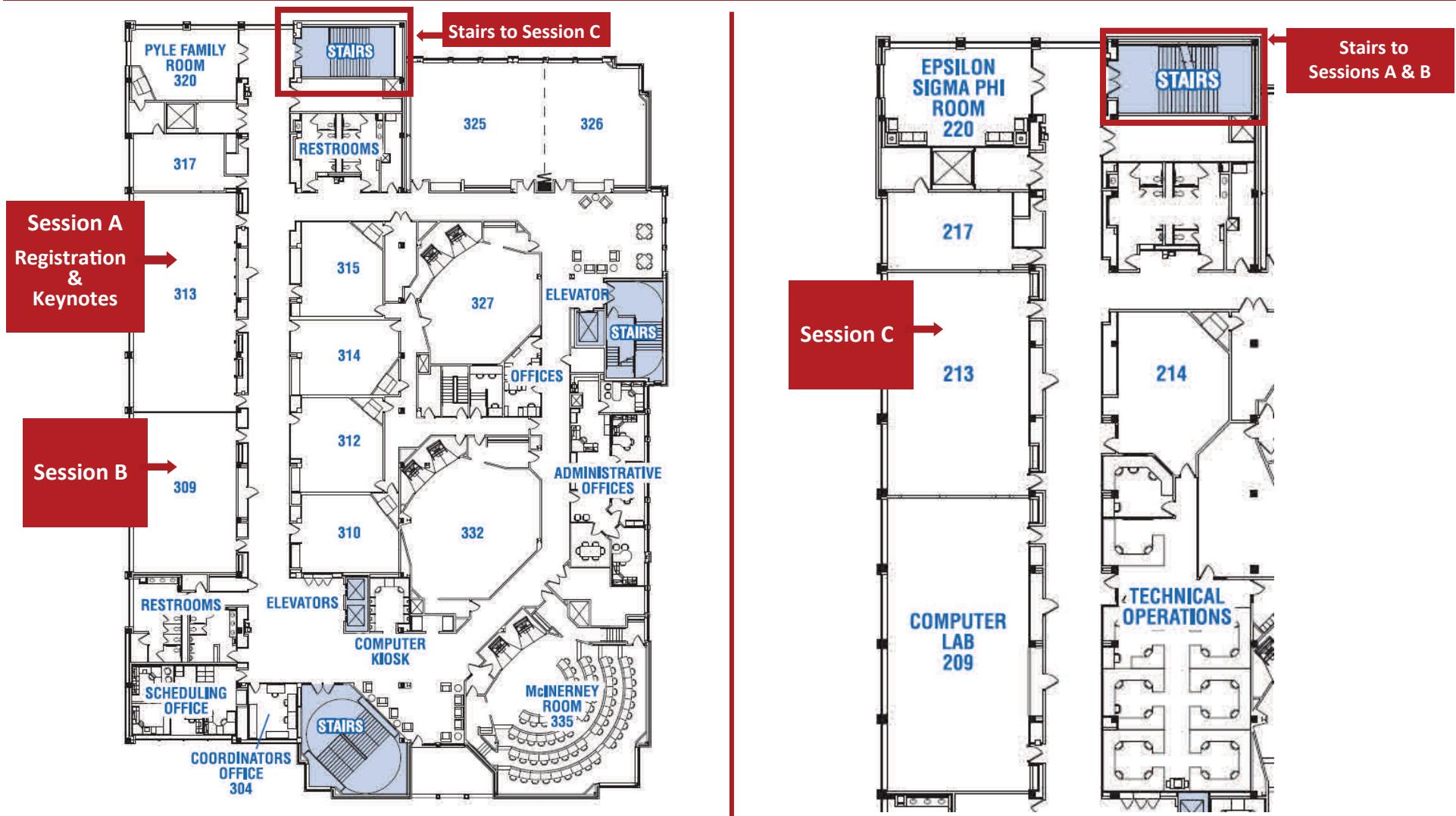
## Attendees

Arianna Murphy, Geography Department  
Erik Myers, U.S. Geological Survey  
Breana Nehls  
Douglas Norgord, Geographic Techniques, LLC  
Dean Olsen, UW-Madison  
Jo Ann Oravec, University of Wisconsin at Whitewater  
Mutlu Ozdogan, UW-Madison  
Dave Parker, SSEC, UW-Madison  
Robert Phetteplace, UW student and employee  
Ron Prince, UW Family Medicine  
Curtis Pulford, Wisconsin Department of Administration  
Chloe Quinn  
Peter Rafferty, Wisconsin TOPS Lab  
Haopu Rao  
Robert Reuschlein, Real Economy Institute  
Morgan Ripp, University of Wisconsin-Madison  
Aaron Ruesch, Wisconsin Dept. of Natural Resources  
Rachel Russell, University of Wisconsin- Green Bay  
Karl Ryavec, UW-Stevens Point  
Carl Sack, UW-Madison Geography Department  
Annemarie Schneider, Center for Sustainability and the Global Environment  
Peter Schoephoester, Wisconsin Geological Survey  
Jon Schwichtenberg, GRAEF  
Codie See, State Cartographer's Office  
Dan Seidensticker  
Thomas Simmons, Office of the Great Lakes WDNR  
Jeff Sledge, UW-Madison, Nelson Institute  
Aleksandra Snowden, University of Wisconsin Milwaukee  
Jaime Stoltenberg, UW-Madison  
Joseph Strand, La Follette  
Matt Sudac  
Jerry Sullivan, Wisconsin DNR  
Naparat Suttidate  
Tom Tews, UW Madison Geography Library  
Anthony Trenzeluk  
Karen Tuerk, Geography, GIS Certificate Program  
Steve Ventura, UW-Madison  
Howard Veregin, State Cartographer's Office  
Davita Veselenak, Wisconsin Land Information Program  
David Vogel, State Cartographer's Office  
Don Waller, Botany  
Mark Wegener, Grad School- Arboretum  
Philip Wells, WI Demographic Services Center  
Mark Wetter, Wisconsin State Herbarium, Botany Dept., UW-Madison  
Nancy Wiegand, Space Science and Engineering, UW-Madison  
Michael Williams  
Luke Winslow, UW-Center for Limnology  
Thomas Wolfe, Univ of Wis  
Joseph Wolter, UW-Soils  
AJ Wortley, State Cartographer's Office

(List current as of 4/11/2014)

# 2014 Geospatial Summit

## Floorplans and Parking Information



Visitor Parking Information — <http://transportation.wisc.edu/parking/visitor.aspx>

Parking Availability\* — [http://transportation.wisc.edu/parking/lotinfo\\_occupancy.aspx](http://transportation.wisc.edu/parking/lotinfo_occupancy.aspx)

Parking Map\* — <http://map.wisc.edu/>

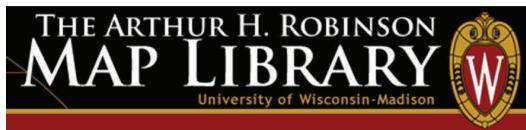
\* Both of these sites provide most recent vacant parking stall counts.

## Thank you Sponsors for your support!

A special thanks to the **GIS Certificate Program** for providing the refreshments!



**Wisconsin  
State Cartographer's Office**



The Geospatial Summit serves as the campus forum for communication, collaboration and information sharing in the geospatial sciences, encouraging research, instruction, and outreach in this multi-disciplinary area.



The Summit is organized annually by the UW-Madison Geospatial Alliance. Visit [www.geoalliance.wisc.edu](http://www.geoalliance.wisc.edu) to learn more.



Scan with your  
smartphone