17th Annual California GIS Conference—
Meeting California’s Challenges

Fresno, California
March 28-31, 2011
Radisson Fresno

About CalGIS – Every year, the four URISA chapters in California, come together to present the CalGIS Conference, now in its 17th year:

Northern California Chapter of URISA – www.norcalurisa.org
Southern California Chapter of URISA – www.socalurisa.org
Bay Area Automated Mapping Association – www.baama.org
Central California Chapter of URISA – www.centralcalurisa.org
Guest Speakers

Tuesday – Opening Session; 8:30–10:00 am
Scott Gregory, GIO, State of California
Scott Gregory is the Geographic Information Officer for the State of California. Scott brings over 15 years of GIS experience from a wide variety of County, Federal, Private Sector, and academic roles. Prior to coming to the California Technology Agency, Scott managed the Public Safety/Homeland Security market for the California Regional Office of Esri Inc. Scott's past responsibilities included developing geospatial IT strategies for mission critical systems, and creating viable and sustainable GIS solutions for the Public Safety community in California and Nevada. Scott is also an adjunct professor at American River College where he is a professor of GIS, teaching courses in web based GIS application development. Prior to joining Esri, Scott was the GIS Manager for the US Army Corps of Engineers, Sacramento District, where he oversaw and managed the USACE GIS program for both civil and military clients for the western US. Scott holds a BA in Geography from Sacramento State University, and an MBA in Marketing from Regis University.

Mano Marks, Senior Developer Advocate, Google
Mano Marks has been on Google’s Developer Relations team for the last four years, and is the lead Developer Advocate for Google’s Geo APIs. He has travelled the world helping individuals, corporations, governments and aid organizations use Google’s mapping technologies to communicate their message to the world. Before Google, Mano had an eclectic career that involved getting a Masters in History, a Masters in Information Management and Systems, and working as a data manager in NGOs for over a decade.

Thursday Closing General Session; 9:00 am–12:00 noon
Donald Cooke, Community Maps Evangelist, Esri
Don Cooke has worked with digital mapping and geospatial technologies for 43 years, starting as a researcher in the New Haven Census Use Study. Don was a key member of the Use Study team that developed the Dual Independent Map Encoding (DIME) method of encoding street maps. The DIME innovation led directly to the nationwide Census Bureau TIGER files which constitute the most complete public domain street database in the world. In 1980, Don founded Geographic Data Technology, the first private company to produce and license digital maps as a product. GDT was a major contractor to the Census Bureau in creating the TIGER database; in 2004 Tele Atlas bought GDT for $100,000,000.

At GDT and Tele Atlas, Don served in many roles, most recently that of Chief Scientist. In the 1990s he performed pioneering work on GPS and digital map accuracy and was first to adapt the new Federal Geographic Data Committee (FGDC) map standard, NSSDA (National Standard for Spatial Data Accuracy) to digital street maps. A recent Tele Atlas project determined accuracy of consumer GPS units to prove the viability of crowdsourcing road alignments for personal navigation devices.

Don has written a wide range of publications, ranging from monthly columns in GIS magazines to a book “Fun with GPS”, published by ESRI Press. He was a member of the Mapping Science Committee of the National Academy of Science in the early 1990s and currently serves as a member of the NAS Panel to Review the 2010 Census. In 2007 he received the ESRI Lifetime Achievement award to complement URISA’s Horwood Award and election to the URISA Hall of Fame. He is a 1967 graduate of Yale and studied Civil Engineering Systems at MIT.
Monday, March 28, 2011

Preconference Workshops & Tours
CalGIS 2011 is offering preconference workshops and tours on Monday, March 28. Hopefully you were able to take advantage of these educational opportunities!
- Basics of Python and ArcGIS Geoprocessing Workshop — Salon D3
  Instructor: Dave Hansen, GISP, GIS Training Mutual, Orangevale, CA
- From Watershed to Wine — Field Trip
- Forest Service GIS — Field Trip

1:00–3:00 pm
California GIS Council Meeting – Salon D1
This quarterly meeting of the Council, which is annually held during CalGIS, will preview new initiatives by the California Technology Agency to coordinate the development of statewide information on parcels, roads and imagery. This meeting will preview some of the software architecture under consideration and some of the coordination efforts under development. All are welcome to attend.

3:00–5:00 pm
CGIA Open Board Meeting – Salon D1
The California Geographic Information Association (CGIA) is a non-profit, statewide association formed in 1994 to facilitate coordination, collaboration, and advocacy for California’s Geographic Information System (GIS) community. CGIA promotes the creation and maintenance of the best practices in the governance and application of geographic information within the State of California that can become a model for the nation. Each year CGIA’s Executive Board holds an open board meeting at CalGIS. All members and anyone interested in CGIA are invited to attend this meeting to learn directly about their state GIS association and its ongoing advocacy for integrative, effective GIS at the state level.

Tuesday, March 29, 2011

8:30–10:00 am
Welcome & Opening Keynote Address – Salon A
Hear opening remarks from Jeff Orton, 2011 CalGIS Conference Chair, including not-to-be-missed conference highlights and events. CalGIS is honored to welcome California’s Geographic Information Officer, Scott Gregory, who will discuss GIS in the State and future plans.

Then, Mano Marks, Senior Developer Advocate for Google will discuss “What you should be asking us: The future of geography, and the hard - and easy - questions that follow.” The last six years have brought a sea change to the way geographic data is collected, accessed, displayed and distributed. Google Maps, Google Earth, and other web based mapping technologies have brought maps out from the GIS shop and into everyone’s every day life. The last few years has brought cloud computing to the fore, bringing massive computing power into the hands of every day users. The last year has seen the introduction of new spatial technologies that blur the lines between GIS and simple maps APIs. The rapid pace of change has left many scrambling to catch up. Given the new technologies, many people aren’t even sure where to begin, what questions to ask. This session will help you get started thinking about the implications for you and your work.

10:00–10:30 am
Grand Opening of Exhibits — Break Sponsored by

Breakout Sessions — 10:30 am–12:00 noon

General Interest
Managing Social Issues with GIS – Salon D2
Every agency grapples with the demands for public data against budgetary and time constraints. This session will focus on how GIS has provided solutions for these challenges.
Moderator: Vince Zaragoza, AICP GISP City of Bakersfield, CA
- Kern GIS Task Force: Public-Private Partnership Developing an Obesity Map Series
  Artar Nijjer-Sidhu and Christina Ortiz, Kern County Environmental Health Services, Bakersfield, CA
- To Bike or Not To Bike: Bicycle Master Planning with GIS
  Carrie Carsell, Fehr & Peers, Roseville, CA
- Visualizing High Speed Rail
  Heather Schuchard, TC Technology, Carlsbad, CA
  Troy Hightower, Kern Council of Governments, Bakersfield, CA

Local & State Government
The Current State of Smart Growth Initiatives in California – Salon A2
This 90-minute roundtable discussion explores the current state of Smart Growth Initiatives in the State of California; how local and regional governments are responding to the mandates and how GIS is being utilized in the development and presentation of the smart growth plans. The panel will also discuss the effects of SB 375 on the Smart Growth strategies.
Moderator & Panelist: Joe Concannon, Sacramento Area Council of Governments, Sacramento, CA

Geospatial Technologies
How to Use Esri Flex Viewer and Javascript/API – Salon D3
The Esri Flex Viewer and Javascript API allow developers to download and use pre-built code snippets to quickly build applications. This session will focus on how to find, download, and add these widgets to your projects.
Moderator: Dan Henderson, GISP, CFM, PBS&J Atkins, Sacramento, CA
- Campus GIS: ArcGIS Server and Silverlight for FM
  Mona Simeone, City College of San Francisco, San Francisco, CA
  Shreepad Ranadive, ValueCAD, San Francisco, CA
- Automating HAZUS Earthquake for CalEMA
  Dan Henderson, GISP, CFM, PBS&J Atkins, Sacramento, CA
  Diane Vaughan, California Emergency Management Agency, Mather, CA

5th Geospatial Technologies in Agriculture and Natural Resources Symposium – Salon D1
Opening Session
The opening session of the Agriculture and Natural Resources Symposium will feature a Welcome Address by Dr. Bruce Roberts, the J.G. Boswell Chair of Agronomy, Department of Plant Science, CSU Fresno. Following this will be a Growers’ Roundtable to discuss the present and future use of GIS on the farm, and how to initiate these technologies for farming practices.
- Growers’ Roundtable: GIS Best Practices on the Farm

Water Resources
Assessing Current Conditions for Bay/Delta Resources – Salon G
This session will focus on issues in the Bay Delta and how agencies are dealing with assessment of conditions.
Moderator: Sheri Dister, Weston Solutions, Carlsbad, CA
- Bay Area Aquatic Resources Inventory: Base Map Standards and Applications
  Marcus Kass, San Francisco Estuary Institute, Oakland, CA
- Bay Area Aquatic Resources Inventory: Outreach Tools and Web Applications
  Carrie Carsell, Fehr & Peers, Roseville, CA

The exhibitors will be available from 10am–6:30 pm today to answer your questions.
• Past, Current & Future Elevation Activities in the Sacramento-San Joaquin Delta
  Joel Dudus, California Department of Water Resources, Sacramento, CA

12:00 noon–1:30pm  Lunch on own & Dedicated Exhibit Hours
Grab a lunch at any of the outlets in the hotel and head back to the exhibit hall to learn as much as you can about the products and services being offered.

Breakout Sessions — 1:30–3:00 pm

Geospatial Technologies
Using GPS and LIDAR in the Real World – Salon D2
GPS and LIDAR are valuable sources of data which can be used to increase productivity while acquiring the high precision data required in today's GIS environment. This session will focus on the use of these data.
Moderator: Bud Rice, City of Taft, CA
• Point Clouds and Derived Surfaces Above and Below the Waterline
  Todd Mitchell, Fugro, Ventura, CA
• Using Laser Rangefinders To Increase Your Field Productivity
  Shaun Minton, Electronic Data Solutions, Sacramento, CA
• Fusion of Aerial and Mobile LIDAR Technologies
  Malcolm Adkins, GISP, Michael Baker Jr Inc, Oakland, CA

Local & State Government
GIS Professional Certifications Panel Discussion – Salon D3
This panel will give brief overviews of two major professional/technical certifications available for GIS professionals, the GIS Certification Institute's GISP Professional Certification and Esri's Technical Certification.
Roundtable Panelists to Include:
• Moderator - Mike Martinez, Esri, Redlands, CA
• David Hansen, GISP, GIS Training Mutual, Orangevale, CA

Gold Sponsor Session –
Esri: Redistricting Software and Templates and API's - Salon A2
Presenters: Harry Moore & Jennifer Hughey
The first half of this session will examine Esri's online Redistricting Solution. This solution allows you to easily create districts from many different levels of geography, share districts amongst groups, and collaborate with each other. Districts can be shared using ArcGIS Online and viewed as a web map or using ArcGIS Explorer Online.

The second half of this presentation will demonstrate the use of Esri templates and APIs to help you build your own web maps. These templates provide common GIS functionality, such as map viewing, geocoding, querying, and editing, in a user friendly interface. This session is for the nondeveloper and will show you step by step how to implement templates and apply them to your own data.

Agriculture
The Changing Picture of Agriculture in California – Salon D1
The agricultural landscape changes every year. This session offers three mapping strategies to document these changes.
Moderator: Kris Lynn-Patterson, University of California - Kearny Ag Center, Parlier, CA
• Using GIS Web Maps to tell the Changing Ag Land Use Story
  Jerry Schmierer, University of California, Colusa, CA
• Irrigation and Landscape Change in the San Joaquin Valley of California
  Scott Phillips, California State University, Fresno, CA
• Mapping Agriculture's Changing Landscape with Pesticide Use Reports
  Kris Lynn-Patterson, James Langille, and Robert Johnson, University of California - Kearny Ag Center, Parlier, CA

Water Resources
Applications for GIS in Vegetation and Water Resources Mapping – Salon G
GIS has led to significant advances in ecological analysis. Hear about how aerial imagery is being collected and used in order to enhance our knowledge.
Moderator: Pamela Kountz, GISP, City of Fresno, CA
• Humboldt Bay Vegetation Mapping
  Mark Meade, Photo Science Inc, Lexington, KY
  Devin Kelley, HJW Photo Science, Oakland, CA
• Taking Inventory: 80 Years of Aerial Imagery Over Mono Lake & Owens Valley
  Thomas Loecherbach and Peter Ashley, Tetra Tech, Lafayette, CA

3:00-3:30 pm
Break in Exhibit Hall - Sponsored by

Breakout Sessions — 3:30–5:00 pm

Geospatial Technologies
Mobile GIS – Salon D2
Mobile data collection has become an essential part of any GIS. This session will focus on how to optimize your use of mobile GIS.
Moderator: Karen Snow, City of Delano, CA
• Integrating Digital Photographs with your GPS Field Data Collection and GIS Data
  Brent Wimmer, California Survey & Drafting Supply, Sacramento, CA
• Measuring Renewable Energy Intelligence
  Heather Schuchard, TC Technology, Carlsbad, CA
  Troy Hightower, Kern Council of Governments, Bakersfield, CA
• Mobile GIS: Everything, Everywhere, Anytime
  David Matson, City of Palo Alto, Palo Alto, CA
  Chip Eitel, Geodesy, San Francisco, CA

Local & State Government
Regional Collaboration Among Regional, State, Federal and Tribal Activities – Salon D3
Regional Collaboratives serve as a conduit to connect locally maintained GIS data to Regional, State, Federal and Tribal activities. They are an important part of the GIS community's efforts to foster collaboration throughout the state. This roundtable explores successes in regional collaboration and identifies areas where greater collaborative efforts may be possible
Moderator & Panelist: Mike Martinez, Esri, Redlands, CA
Additional panelists to include:
• Joe Concannon, Sacramento Area Council of Governments, Sacramento, CA
• Carol Ostergren, US Geological Survey, Sacramento, CA
• Rachel Rodriguez, Yurok Tribe, Hoopa, CA

Geospatial Technologies
Using OpenLayers to Build Rich, Web-based GIS Applications – Salon A2
OpenLayers is an open source Javascript library that is becoming a commonly used platform for building rich web-based GIS applications. This session will provide examples of its use, along with mechanisms to show your GIS data on Google and Bing Maps, very fast commercial basemaps.
Agriculture
Managing the Farm with Geospatial Tools: What’s Available? – Salon D1
Find out about the latest geospatial approaches to farming: imagery and in-field data collection from three savvy data and service providers.
Moderator: Kris Lynn-Patterson, University of California - Kearney Ag Center, Parlier, CA
- Monsanto’s Precision Farming Program
  Jack Paris, PARIS Geospatial LLC, Clovis, CA
- ScanControl’s GIS Services
  Rob Wood, ScanControl, Pleasanton, CA
- GeoG2 Imagery and Information Products
  Kevin Spyr, GeoG2, Los Altos, CA

Networking Reception 5:00–6:30 pm
Spend some time with CalGIS 2011 Sponsors and fellow attendees in the Exhibit Hall. Great conversation and refreshments!

Wednesday, March 30, 2011

Breakout Sessions — 8:30–10:00 am

Local & State Government
Redistricting – Salon A1
With the completion of the 2010 Census, the reapportionment and redistricting process for the state and many local government entities is under way. This panel will discuss the process of redistricting and understand how the available GIS based solutions can help in the public process of redrawing the various districts throughout the state.
Moderator: Mike Martinez, Esri, Redlands, CA
Participants:
- Harry Moore, Esri, Redlands, CA
- Timothy McMonagle, US Census Bureau, Northridge, CA

General Interest
Improving the National Hydrography Dataset – Salon D2
The National Hydrography Dataset provides a comprehensive representation of the surface water of the United States. This session will discuss how the NHD will be improved by incorporating engineered diversion features, which significantly alter the flow of water in some areas.
Moderator: Darrin Farmer, Weston Solutions, Roseville, CA
- Improving the National Hydrography Dataset in California with Diverion Networks
  Kristiana Elite and Jeff Simley, US Geological Survey, Denver, CO

Geospatial Technologies
Using Microsoft’s Silverlight and ESRI’s ArcGIS Server Technologies – Salon A2
In September 2009, the City of Modesto created a Rich Internet Application using Microsoft’s Silverlight and ESRI’s ArcGIS Server technologies. This session will demonstrate, with detailed discussion of the steps involved, how this was accomplished.
Moderator: Linda Wright, GISP, El Dorado County, Placerville, CA
- Modesto’s Leap Forward: Our Move to a Rich Internet GIS Application
  Patrick Brooke and Robert Beckler, City of Modesto, Modesto, CA

Water Resources
GIS Applications for Water Districts – Part One – Salon D3
GIS is a tool that can meet many needs for water districts. Many larger districts have seen the value of GIS in their work and have moved into the use of these tools. For other districts, GIS is something that has either never been considered or is considered too complex to try. This session will explore what GIS is and what it can do for your district. Speakers will also discuss who is using GIS and what value they are realizing. Most of these examples will focus on rural and agricultural districts with presenters coming from the San Joaquin Valley.
Moderator: Jeff Orton, Paramount Citrus, Delano, CA
- What is GIS and How Can it Benefit my Water District?
  Tom Haslebacher, PG, CHg, Kern County Water Agency, Bakersfield, CA
  Sonja Thiede, GISP, Kings River Conservation District, Fresno, CA

Networking Break and Poster Session in the Exhibit Hall 10:00–11:00 am
Join your fellow attendees in the Exhibit Hall to discuss poster session entries and visit with conference sponsors. Participants include:

Geo-Spatial Yield Monitoring Technology for Mechanized Almond Harvest
Balaji Sethuramasamyraja and Sunny Sehgal, Dept of Industrial Technology, California State University, Fresno, CA
Jim Yager, Impact Ag and Strategic Farming, Fresno, CA
Yield monitoring is critical for almond growers to garner profitability through application of geospatial technology and site specific crop management in almond production. Almond growers could optimize water and application of inputs based on soil thematic layer of the field that has a strong correlation to yield besides management practices. In this research a commercially deployable yield monitor was developed for almonds with sensing, global positioning system (GPS) and geographic information systems (GIS) technology (Digi-Star® Yield Monitor). Yield maps were developed for production almond fields. The yield data was validated using sampling datasets which were in turn correlated to soil thematic layer developed using soil electrical conductivity (Veris® 3100 EC Mapper). The sampling from multiple soil zones representing a soil texture were correlated to the almond turn out ratio. Also, the effect of navel orange worm (NOW) on almond meat turn out ratio was reported.

Using Suitability Analysis for Locating Wi-Fi Towers During A Natural Disaster
Fred Dominguez, MD, MPH Assistant Professor, Charles Drew Univ. of Medicine and Science
During a natural disaster such as a flood there may be a need to construct communication links such as WiFi towers. A strategy is where the best location to construct the towers in optimizing their function, may prove useful in saving lives. Using GIS tools such as Suitability Modeling may assist in developing this strategy. This model utilizes hypothetical criteria in deciding on where WiFi towers should be located.

Utilizing Geographic Information Systems in Mapping Air Quality in the San Joaquin Valley
Yong Choi, California State University, Bakersfield, Bakersfield, CA
Air quality is a serious issue in major metropolitan areas in California, particularly in the major metropolitan area of Bakersfield in Kern County and other areas of the San Joaquin Valley. With conditions worsening in summer time, many residents, particularly asthmatics or those with chronic respiratory illnesses...
are dependent on an accurate mapping and updating of local air quality levels. Geographic information systems act as a powerful tool for environmentalists and city planners to more accurately monitor and map changing air quality levels, as well as determine whether or not efforts to curb bad air quality have been successful. This paper strives to show how such a method is feasible via the creation of a GIS to highlight air quality levels for the San Joaquin Valley, one of the most polluted areas in California.

Remote Sensing and GIS Applications in Agriculture: A Case Study in Wadi Aladoor, Saudi Arabia
Ali Aldosari, King Saud University, Saudi Arabia
Agricultural production in Saudi Arabia is limited by water resources and availabilities of agricultural lands. Through the last 30 years, the agricultural areas have increased and decreased at different levels of change due to government policy. Wadi Aladoor City is a major area of agricultural production (ex. wheat, alfalfa, vegetable) which is affected and influenced noticeably by the agriculture policy in Saudi Arabia. Normalized Difference Vegetation Index (NDVI) maps allow comparisons of the spatial and temporal variability in the amount and condition of agricultural lands. In this study, multi-temporal NDVI features derived mainly from Landsat images dating from 1975 to 2010 were used to assess the status of agricultural lands in Wadi Aladoor area. The main objects include monitoring and analyzing the changes of agricultural lands and its pattern in Wadi Aladoor.

Using SLEUTH to Conceptualize Growth Scenarios in the Humboldt Bay Area
Jess Morrison, Humboldt State University, Arcata, CA
Analysis of growth patterns in the Humboldt County communities of McKinleyville, Arcata, Eureka, and Fortuna using the SLEUTH Urban Growth Model. Three potential scenarios are projected 50 and 100 years into the future.

Seasonal Thermal Habitat Selection by Pacific Fisher in the Southern Sierra Nevada
Jim Garner, Humboldt State University, Arcata, CA
Pacific fisher (Martes pennanti) in the southern Sierra Nevada lives within relatively narrow environmental constraints. This leads to our hypothesis that fisher will show seasonal selection of thermally moderate habitat in relation to the landscape. Here we report findings of micromelate selection by fisher in relation to seasonally averaged thermal habitat relative to the landscape based on land surface temperature estimates derived from Landsat Thematic Mapper images.

Mapping Homeless Encampments in the Arcata Community Forest
Daniel Jones, Humboldt State University, Arcata, CA
The City of Arcata, California, is concerned with the impacts on the water quality of salmonid supporting streams caused by homeless encampments in the Arcata Community Forest. My objective was to map the locations of these encampments and attempt to produce a multivariate predictive model.

Cut-Fill Analysis: How Much and Where
Kevin Ernst, ARCADIS, San Francisco, CA
Currently, when calculating the volume of material removed (cut) or added (filled) following grading activity GIS users typically have one option: the cut-fill function available in 3d Analyst or Spatial Analyst. While this function allows for quick and easy analysis across a site (the spatial extent of data being fed in to the tool), it lacks the capability for calculating changes in volumes of material at more granular sub-site levels. Being able to determine soil volume changes at the sub-site level (i.e. according to a regularized grid, IR Site, property boundary, etc.) has significant cost and/or liability implications - particularly in large-scale remediation projects. Although meeting this challenge can be accomplished by subdividing input data, the process can get complex, and is prone to user-error especially with more sub-sites, or frequent iterations. I have developed a simple process that hinges on the integerize raster function [Int(SA)] that enables users to divide cut-fill results using polygon features of their choice.

Geographic Analyses Help Hospitals Identify Community Needs
Chris Ringwald, Advancement Project/Healthy City, Los Angeles, CA
Healthy City helps Kaiser Permanente create effective community needs assessments that prioritize health needs, promote health planning, and meet California statutory requirements.

GIS in Health Roundtable – Salon D2
The role of GIS is quickly growing in the health agencies of local government. With the emergence of Healthy Communities, Health Information Exchange, and Public Health Preventative Practices, the use of GIS as an analytical and reporting tool will continue to grow. This panel will discuss the expanded role of GIS in Health as well as the management and analysis of health related data using GIS.

Geospatial Technologies
WebGIS for Social Change – Salon A1
HealthyCity.org provides users with the ability to map socioeconomic data, services and deficits for all of California, including uploading their own data to augment their research on the site.

Moderator: Dave Hansen, GISP, GIS Training Mutual, Orangevale, CA
• HealthyCity.org: Web GIS for Social Change
  Chris Ringwald, Advancement Project, Los Angeles, CA

Local & State Government
Internet GIS Applications – Salon A2
Technology has had a profound impact on the mapping arena over the last several years. This session focuses on the technology available to today’s mapping professionals and, more importantly, how the benefits of this technology impact the GIS community.

Geographic Analyses Help Hospitals Identify Community Needs
Chris Ringwald, Advancement Project/Healthy City, Los Angeles, CA
Healthy City helps Kaiser Permanente create effective community needs assessments that prioritize health needs, promote health planning, and meet California statutory requirements.
Agriculture
Multispectral Imagery for Agriculture – Salon D1
This panel discussion will focus on the uses of imagery to improve agricultural practices.
Moderator: Kevin Spry, GeoG2, Los Altos, CA
  Jack Paris, Paris Geospatial LLC, Clovis, CA

GIS Applications for Water Districts - Part Two – Salon D3
GIS doesn’t have to be difficult and expensive to get started. GIS data is more plentiful than ever, many of your colleagues are willing to help, commercial software options abound and even free GIS tools are getting better all of the time. This session explores how to get started and where to find data, tools and assistance to help you realize the benefits of GIS and minimize your risks.
Moderator: Malcolm Adkins, GISP, Michael Baker Jr Inc, Oakland, CA
- So I See That GIS Might be Useful for My Water District – How Do I Get Started?
  Tom Haslebacher, PG, CHg, Kern County Water Agency, Bakersfield, CA
  Sonja Thiede, GISP, Kings River Conservation District, Fresno, CA

Box Lunch & Dedicated Exhibit Time — 12:00–1:30 pm
Exchange your luncheon ticket for a boxed lunch in the Lower Atrium and head to the table which is assigned to a topic of most interest to you.
The list of topics was included with your registration materials.

It’s a great way to meet new people who share similar interests and challenges. Build your California GIS Network!

Breakout Sessions — 1:30–3:00 pm

General Interest
Government GIS Data – Salon A1
Government data is one of the most valuable resources available to a GIS user. This session will discuss some of the current advances being planned for these data.
Moderator: Blanca Quinteno, Sweetwater Authority, Chula Vista, CA
- The US Topo – Topographic Maps for the Nation
  Drew Decker, US Geological Survey, San Diego, CA
- The Implementation of the California Spatial Data Infrastructure
  Carol Ostergren, US Geological Survey, Sacramento, CA
  Timothy McMonagle, US Census Bureau, Northridge, CA

Local & State Government
GIS Web Mapping and Application Development – Salon A2
This panel will explore the various tools available for GIS mapping and application development on the web. The discussion will share what considerations are used in choosing a platform as well as the development cycle and supporting applications.
Moderator & Participant: Mike Martinez, Esri, Redlands, CA
Additional Panelists:
- Robert Beckler, City of Modesto, Modesto, CA
- Patrick Brooke, City of Modesto, Modesto, CA
- Shreepad Ranadive, ValueCAD, San Francisco, CA

Geospatial Technologies
Web GIS – Salon D2
One of the most important charges of GIS is public communication. This session demonstrates how the web can be leveraged as a tool to enable and enhance this task.

Water Resources
Managing California’s Water Resources – Salon D1
Water is managed using geospatial technologies. This session explores how one water district and one research project use geospatial techniques to improve water-use planning.
Moderator: Kris Lynn-Patterson, University of California - Kearny Ag Center, Parlier, CA
- GIS at KRCD: GIS Role in Groundwater and Surface Water Program Compliance
  Sonja Thiede, GISP, Kings River Conservation District, Fresno, CA
- What Trout do When No One is Looking: GIS and The Trout Fishery on The Kings River
  Sonja Thiede, GISP, Kings River Conservation District, Fresno, CA
- Refined Crop Coefficients to Improve Water Resources Planning and Management
  Robert Johnson and Kris Lynn-Patterson, University of California Kearny Ag Center, Parlier, CA

Break in Exhibit Hall — 3:00–3:30 pm
Last chance to check out demos and get answers to any remaining questions you have. The Exhibitors pack up after this break!

Breakout Sessions — 3:30–5:00 pm

General Interest
GIS Logistical and Legal Issues – Salon D2
The core of GIS is access to data. This session will focus on data demand and modeling.
Moderator: Sheri Dister, Weston Solutions, Carlsbad, CA
- Estimating Watershed Yield from Satellite Images within Antelope Valley
  Anna Reimer, West Yost Associates, Davis, CA
- Satellite Mapping of Irrigation Demand in the San Joaquin Valley
  Lee Johnson, California State University, Monterey Bay, Moffett Field, CA
- Visualizing H&H Modeling Results in GIS
  Sheng Tan, GISP, Wood Rodgers, Sacramento, CA

Water Resources
Applications in GIS Water Resources – Salon D3
Whether in times of flood or drought, water management is a critical issue for California. This session will focus on water demand and modeling.
Moderator: Zacharias Hunt, University of California - Kearny Ag Center, Parlier, CA
- Public Access to County GIS Basemap Data: The Struggle Continues
  Bruce Joffe, GISP, GIS Consultants, Oakland, CA
- GIS based Land Use and Transportation Models for Climate Change Law SB375
  Troy Hightower, Kern Council of Governments, Bakersfield, CA
- Geodetic Control Framework Layer
  Marty Ikehara, National Geodetic Survey/NOAA, Sacramento, CA

Local & State Government
GIS Program Development – Salon A1
Successfully implementing and growing GIS program, regardless of organizational size, has a number of challenges. Not all challenges are the same. This roundtable discussion will explore the development and maturation of GIS programs in various sized local governments.
Roundtable Participants:
Moderator - RuthAnn Harbison, City of Merced, Merced, CA
- Karen Snow, City of Delano, Delano, CA
- Robert Beckler, City of Modesto, Modesto, CA
- Mark Greninger, Los Angeles County, Los Angeles, CA

Agriculture
Geospatial Applications in Agricultural Research – Salon D1
University-level research applications of geospatial techniques are discussed in this session.
Moderator: Kris Lynn-Patterson, University of California - Kearny Ag Center, Parlier, CA
- Using the Internet to Manage Pests and Disease
  Kris Lynn-Patterson, University of California - Kearny Ag Center, Parlier, CA
- Managing Research with GIS at Lindcove Research Station
  James Langille, University of California - Kearny Ag Center, Parlier, CA
- Robert Johnson, University of California - Kearny Ag Center, Parlier, CA
- Beth Grafton-Cardwell
  Greg Montez, University of California - Kearney Ag Center, Parlier, CA
- Changes in Ground Water Depth Through Time
  Michael Hickey, Tulare County, Visalia, CA

Water Resources
GIS and Levee Databases – Salon D3
This session will focus on levees with emphasis on the national levee database and California critical levee projects.
Moderator: Dan Henderson, GISP, PBS&J Atkins, Sacramento, CA
- Using the USACE National Levee Database Model in California
  Dan Henderson, GISP, PBS&J Atkins, Sacramento, CA
- A National Levee Database
  Malcolm Atkins, GISP, Michael Baker Jr Inc, Oakland, CA
- Challenges of GIS Implementation on Critical Levee Projects
  Ian Mc Govern, Kleinfelder, Inc, Sacramento, CA

CalGIS HAPPY HOUR!  5:30pm – 6:30pm

PBS&J Central California
URISA

Join our happy hour sponsors, PBS&J Atkins and the Northern and Central California URISA Chapters, in the Lobby Bar for hospitality, games and prizes.

Thursday, March 31, 2011

9:00 am – 12:00 noon
Conference Breakfast, CGIA Awards, & Closing Plenary Session – Salon A2
Each year, the California Geographic Information Association (CGIA) recognizes outstanding achievements in various aspects of GIS within California through its awards program. Find out the distinguished individuals and organizations that are being recognized with 2011 CGIA Awards in the following categories:
- **Chairman’s Award:** Granted to honor a person who has made outstanding contributions in the promotion, innovation, and/or use of GIS technology.
- **Exemplary Systems Award:** Granted for outstanding application of GIS technology representing innovative, elegant, or creative techniques.
- **Advancement of Collaboration Award:** Granted for outstanding inter-organization collaborative efforts in GIS.
- **Outstanding Internet Presentation Award:** Granted to the outstanding integration of GIS and web technologies demonstrating excellence in aesthetic presentation, functionality, ease of use, and overall user experience.
- **Excellence in Education Award:** Granted to the educational institution that displays extraordinary approach, contribution, development or commitment to GIS education in California.

Congratulations to all who are recognized!

CalGIS is honored to welcome Don Cooke as our Closing Keynote Speaker.

Donald Cooke is Community Maps Evangelist at Esri. He has worked with digital mapping and geospatial technologies for 43 years, starting as a researcher in the New Haven Census Use Study. Don was a key member of the Use Study team that developed the Dual Independent Map Encoding (DIME) method of encoding street maps. The DIME innovation led directly to the nationwide Census Bureau TIGER files which constitute the most complete public domain street database in the world. In 1980, Don founded Geographic Data Technology, the first private company to produce and license digital maps as a product. GDT was a major contractor to the Census Bureau in creating the TIGER database; in 2004 Tele Atlas bought GDT for $100,000,000.

At GDT and Tele Atlas, Don served in many roles, most recently that of Chief Scientist. In the 1990s he performed pioneering work on GPS and digital map accuracy and was first to adapt the new Federal Geographic Data Committee (FGDC) map standard, NSSDA (National Standard for Spatial Data Accuracy) to digital street maps. A recent Tele Atlas project determined accuracy of consumer GPS units to prove the viability of crowdsourcing road alignments for personal navigation devices.

Don has written a wide range of publications, ranging from monthly columns in GIS magazines to a book “Fun with GPS”, published by ESRI Press. He was a member of the Mapping Science Committee of the National Academy of Science in the early 1990s and currently serves as a member of the NAS Panel to Review the 2010 Census. In 2007 he received the ESRI Lifetime Achievement award to complement URISA’s Horwood award and election to the URISA Hall of Fame. He is a 1967 graduate of Yale and studied Civil Engineering Systems at MIT.

Closing Keynote Presentation:
Volunteered Geographic Information (VGI) is embodied in operations ranging from the Open Street Map to user feedback channels for Google Maps and personal navigation devices. The biggest challenge for VGI is turning a large number of citizen reports into the kind of authoritative data that we’ve grown to expect from maps. Esri’s new Community Maps program takes a unique slant on VGI by empowering authoritative stewards of spatial data to contribute to a global map at scales down to 1:1000. Don will present a history and examples of VGI applications with emphasis on Esri’s “Maps and Apps” program.
Conference Sponsors
The CalGIS Conference would not be possible without the support of our sponsors. Be sure to spend time learning more about their solutions in the exhibit hall.

GOLD SPONSOR

Esri
www.esri.com

Since 1969, Esri has given customers around the world the power to think, plan and act geographically. The market leader in GIS, Esri software is used in successful organizations worldwide including the largest cities and counties in the United States, most national governments, tribal nations, and in our colleges and universities nationwide. ArcGIS is a complete system for designing and managing solutions through the application of geographic knowledge. The Esri system runs on desktops, mobile, web, and enterprise servers, providing the backbone for data management, planning and analysis, operational awareness, mobile enablement and citizen engagement. To learn more, visit http://www.esri.com.

SILVER SPONSORS

Allen Instruments and Supplies
www.alleninst.com

Allen Instruments and Supplies offer innovative solutions in the fields of GIS and Surveying to business, government and educational institutions. The company has been built on personal integrity, knowledge and strong manufacturing and distribution relationships. Allen Instruments and Supplies provide customers with reliable and leading edge products and technologies from the most reputable manufacturers. Our company sets itself apart by the value added services provided before and after your investment.

Dudek
www.dudek.com

Dudek provides a full-range of geospatial services for public and private clients. Our GIS specialists provide: data management and cartographic services; GPS field data collection; data analysis and modeling; risk assessment; remote-sensing; desktop, web-based and mobile application development; program and project management; emergency preparedness and Homeland Security support; utilities modeling and asset management; and as-needed and extension of staff services. Headquartered in Encinitas, Dudek’s 200 employees work in seven offices throughout California. We can be contacted at www.dudek.com or info@dudek.com.

Pictometry
www.pictometry.com

Pictometry International Corp. is a recognized world leader in geo-referenced aerial imaging and software. Using our patented image capture process we have developed a revolutionary portfolio of products used by government professionals across the country. We are a trusted source for critical visual information with Federal, State, County and Government agencies.

Valtus Imagery Services
www.valtus.com

Valtus Imagery Services specializes in the storage and distribution of large imagery and elevation datasets through web delivery systems. Views: Spatial Data Access Subscription provides ‘real-time’ streaming access to multiple imagery and elevation layers within a WMS enabled GIS application, while the Spatial Data Store allows customers to select data on a transactional basis, from the imagery and/or LiDAR libraries. Through Vault: Spatial Data Hosting Service, customers are also able to securely integrate their proprietary data.

California Surveying & Drafting Supply
www.csdsinc.com

Established in 1986, California Surveying & Drafting Supply is an authorized distributor for the complete line of Trimble Mapping & GIS Systems, as well as HP DesignJet Printers. We offer sales, service, rentals and certified Trimble training. Visit us at: www.csdsinc.com

CRW Systems Inc
www.crw.com

CRW Systems, Inc is a professional engineering and consulting firm headquartered in San Diego, California. We have been providing information management solutions for over 135 municipal agencies throughout the United States since 1991. Our service includes application development and implementation of systems for local and state agencies.

Electronic Data Solutions
www.elecdata.com


EnerGov Solutions
www.energov.com

EnerGov Solutions is a leading and global provider of innovative Land, License and Asset Management software solutions designed specifically for enterprising government agencies. Enterprise software solutions offered by EnerGov include GIS-centric process automation of land use planning & review, permitting, enforcement management, inspections, licensing, work orders and service requests.

Fugro-EarthData
www.earthdata.com

Combining cutting-edge mapping and surveying technology with the power of GIS, Fugro delivers complete, end-to-end solutions related to the acquisition, interpretation, management and dissemination of geospatial information. We have the resources, technology, and operational experience to provide the right geospatial solution to public and private sector customers, anywhere in the world.

Geocortex by Latitude Geographics
www.geocortex.com

Geocortex software by Latitude Geographics, transforms how people design, build and maintain Esri ArcGIS Server applications. By taking advantage of off-the-shelf components and a supportable infrastructure you will be able to do more – faster,
cheaper and better than otherwise possible. In fact, that is what hundreds of organizations around the world have done in choosing Geocortex when seeking powerful, intuitive web-based mapping solutions. In 2010, Latitude Geographics was named one of Esri’s first Platinum Business Partners as well as 2010 Partner of the Year.

Geodesy
www.geodesy.net
Geodesy creates Geographic Information Systems (GIS) solutions for local, state, and federal government agencies and the built environment industries.

GeoG2 Solutions Inc
www.geog2.com
GeoG2 Solutions, Inc. provides digital aerial imagery data and analysis solutions for managing agricultural and forestry production in the Western US. We offer growers high resolution multi-spectral imagery, geo-referencing, image processing, and image analysis. The company also serves real estate, resource management, urban, use planning and other geography-intense industries.

Intermap Technologies
www.intermap.com
Intermap Technologies, a worldwide digital mapping and geospatial solutions company, provides seamless wide-area 3D maps and images. Its NEXTMap countrywide database enables countless geospatial applications within the water resource and floodplain management, wireless telecommunications, traditional and alternative energies, engineering, automotive fuel efficiency and safety, and insurance risk management markets.

LizardTech
www.lizardtech.com
LizardTech creates state-of-the-art software products and solutions that enable governments and businesses to manage and distribute massive, high-resolution geospatial data such as satellite imagery and LiDAR data. LizardTech pioneered MrSID®, a powerful wavelet-based image encoder, viewer, and file format, and sits on the Technical Committee of the Open Geospatial Consortium.

Microdesk Inc
www.microdesk.com
Microdesk is a design technology consultancy with 11 offices nationwide that provides the AECO and Manufacturing industries with premiere consulting, implementation, support, and training solutions using today’s leading technology products from Autodesk, Google, Oracle, Adobe, ESRI, and Microsoft. For more information, visit www.microdesk.com.

Photo Science
www.photoscience.com
Founded in 1974, Photo Science is a full-service Geospatial Solutions firm, specializing in aerial imaging and data collection and processing, LiDAR acquisition and processing, mobile mapping, photogrammetric mapping, GIS, system integration, remote sensing, and surveying services. Our 190 professional and technical staff is devoted exclusively to providing geospatial services to private sector customers, as well as federal, state, and local agencies. The company employs qualified professionals and support personnel in nine offices located in California, Colorado, Florida, Georgia, Kentucky, Maryland, Michigan, and Pennsylvania.

Pixxures Inc
www.pixxures.com
Pixxures, Inc. provides custom aerial photography solutions to fulfill our clients’ needs for geospatial information. A member of XeDAR’s Geospatial Division, Pixxures performs projects that include aerial photographic mapping, direct-digital color and near-infrared orthophotography, planimetric and topographic mapping, vector alignment, LiDAR, DEM/DTM compilation and other GIS products and services.

US Geological Survey
www.usgs.gov
As an unbiased science agency for the US Department of the Interior, the USGS is dedicated to the timely and relevant study of the landscape, our natural resources, and natural hazards.

VESTRA Resources
www.vestra.com
VESTRA Resources, Inc. is a leader in geospatial and information technologies. VESTRA proudly presents the GeoSystems Monitor™, providing intimate real-time knowledge of your Enterprise GIS, as well as the Pest Management & Vector Control Mobile Operations System (MOS), a smart, intuitive, GIS-based system centered on business intelligence practices.

Weston Solutions Inc
www.westonsolutions.com
Weston Solutions, Inc. (WESTON®) is a full-service information management, environmental consulting, and redevelopment firm. Our 150 plus IT professionals provide expertise in asset management, computerized maintenance management systems (CMMS), geographic information systems (GIS), application development, decision support, and system integration to state, city, municipal, and federal, industrial and commercial clients. Our 1,800 employee owners work from 60 offices around the globe to build strong stakeholder relationships and produce solutions that work. WESTON has been responding to our clients’ toughest problems for more than 50 years.

California Land Surveyors Association
www.californiasurveyors.org
CLSA advances the interests of the profession of Land Surveying to maintain the highest possible standards of professional ethics and practice to encourage uniformity of practices and procedures, and foster public faith in and understanding of Land Surveyors and their work.

CLSA represents Land Surveyors, in public or private practice whether they are employees or proprietors.

UC Riverside Extension
www.extension.ucr.edu/gis
UC Riverside Extension is the non-profit branch of the University serving professionals throughout the Inland Empire, the country and world. The award-winning Certificate in GIS was established in 1993 and is a recognized leader in GIS education. The comprehensive program provides innovative and practical GIS education for those entering or advancing in the GIS field.
### 2011 California GIS Conference At-A-Glance
**Fresno – March 28-31, 2011**

**Monday, March 28, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM-5:00 PM</td>
<td><strong>Workshop 1 - Basics of Python and ArcGIS Geoprocessing</strong> Salon D3</td>
</tr>
<tr>
<td>8:30 AM-5:00 PM</td>
<td><strong>Workshop 2 - Introduction to Open Source GIS</strong> Salon G</td>
</tr>
<tr>
<td>11:00 AM-6:00 PM</td>
<td><strong>Field Trip 1 - From Watershed to Wine</strong> Service GIS</td>
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<tr>
<td>1:30-5:00 PM</td>
<td><strong>Field Trip 2 - Forest</strong></td>
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<tr>
<td>3 PM</td>
<td><strong>California GIS Council 3–5 PM : CGA Open Board Meeting</strong> Salon D1</td>
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**Tuesday, March 29, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30-10:00 AM</td>
<td><strong>Conference Opening Session &amp; Keynote Speakers:</strong></td>
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<tr>
<td></td>
<td>Scott Gregory, California Geographic Information Officer</td>
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<td></td>
<td>Mano Marks, Geo Developer Advocate, Google</td>
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<tr>
<td></td>
<td>Salon A1/A2</td>
</tr>
<tr>
<td>10:30 AM-12:00 Noon</td>
<td><strong>Coffee Break in Exhibit Hall – sponsored by ECORP Consulting, Inc.</strong></td>
</tr>
<tr>
<td>10:30 AM-12:00 Noon</td>
<td><strong>Managing Social Issues with GIS</strong> Salon D2</td>
</tr>
<tr>
<td>10:30 AM-12:00 Noon</td>
<td><strong>The Current State of Smart Growth Initiatives in California</strong> Salon A2</td>
</tr>
<tr>
<td>10:30 AM-12:00 Noon</td>
<td><strong>How to Use Esri Flex Viewer and Javascript/API</strong> Salon D3</td>
</tr>
<tr>
<td>10:30 AM-12:00 Noon</td>
<td><strong>5th Geospatial Technologies in Agriculture and Natural Resources Symposium - Opening Session</strong> Salon D1</td>
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<tr>
<td>10:30 AM-12:00 Noon</td>
<td><strong>Assessing Current Conditions for Bay/Delta Resources</strong> Salon G</td>
</tr>
<tr>
<td>12:00-1:30 PM</td>
<td><strong>Lunch on own &amp; Exhibit Hours</strong></td>
</tr>
<tr>
<td>1:30-3:00 PM</td>
<td><strong>Using GPS and LIDAR in the Real World</strong> Subway D2</td>
</tr>
</tbody>
</table>
| 1:30-3:00 PM   | **GOLD SPONSOR SESSION - Esri GIS Professional Certifications Panel Discussion** Salo...
| 1:30-3:00 PM   | **The Changing Picture of Agriculture in California** Salon D1          |
| 1:30-3:00 PM   | **Applications for GIS in Vegetation and Water Resources Mapping** Salon G |
| 3:00 – 3:30 PM | **Refreshment Break in Exhibit Hall – sponsored by Allen Instruments & Supplies** |
| 3:30-5:00 PM   | **Mobile GIS**                                                          |
| 3:30-5:00 PM   | **Regional Collaboration Among Regional, State, Federal and Tribal Activities** Salon D3 |
| 3:30-5:00 PM   | **Using OpenLayers to Build Rich, Web-based GIS Applications** Salon A2 |
| 3:30-5:00 PM   | **Managing the Farm with Geospatial Tools** Salon D1                     |
| 5:00-6:30 PM   | **Exhibit Hall Networking Reception**                                   |

**Wednesday, March 30, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30-10:00 AM</td>
<td><strong>Redistricting Roundtable Discussion</strong> Salon A1</td>
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<tr>
<td>8:30-10:00 AM</td>
<td><strong>Improving the National Hydrography Dataset</strong> Salon D2</td>
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<tr>
<td>8:30-10:00 AM</td>
<td><strong>Using Microsoft’s Silverlight and ESRI’s ArcGIS Server Technologies</strong> Salon A2</td>
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<tr>
<td>8:30-10:00 AM</td>
<td><strong>GIS Applications for Water Districts – Part I</strong> Salon D3</td>
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<tr>
<td>10:11 AM</td>
<td><strong>Networking Break and Poster Session in the Exhibit Hall</strong></td>
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<tr>
<td>11 AM – 12:00</td>
<td><strong>WebGIS for Social Change</strong></td>
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<tr>
<td>11 AM – 12:00</td>
<td><strong>GIS in Health</strong></td>
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<tr>
<td>11 AM – 12:00</td>
<td><strong>Internet GIS Applications</strong></td>
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<tr>
<td>11 AM – 12:00</td>
<td><strong>Multispectral Imagery for Agriculture</strong></td>
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<tr>
<td>11 AM – 12:00</td>
<td><strong>GIS Applications for Water Districts – Part II</strong> Salon D3</td>
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<tr>
<td>12:00-1:30 PM</td>
<td><strong>Box Lunch (Lobby Atrium) &amp; Dedicated Exhibit Time</strong></td>
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<tr>
<td>1:30-3:00 PM</td>
<td><strong>Government GIS Data</strong></td>
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<tr>
<td>1:30-3:00 PM</td>
<td><strong>GIS Web Mapping and Application Development</strong> Salon A2</td>
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<td>1:30-3:00 PM</td>
<td><strong>Web GIS</strong></td>
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<tr>
<td>1:30-3:00 PM</td>
<td><strong>Managing California’s Water Resources</strong></td>
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<td>1:30-3:00 PM</td>
<td><strong>Application in GIS Water Resources</strong></td>
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<td>1:30-3:00 PM</td>
<td><strong>Refreshment Break in Exhibit Hall</strong></td>
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<tr>
<td>3:30-5:00 PM</td>
<td><strong>GIS Logistical and Legal Issues</strong> Salon D2</td>
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<tr>
<td>3:30-5:00 PM</td>
<td><strong>GIS Program Development</strong></td>
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<tr>
<td>3:30-5:00 PM</td>
<td><strong>Geospatial Applications in Agricultural Research</strong> Salon D1</td>
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<tr>
<td>3:30-5:00 PM</td>
<td><strong>GIS and Levee Databases</strong></td>
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<tr>
<td>5:30-6:30 PM</td>
<td><strong>CalGIS Happy Hour in the Lobby Bar – sponsored by PBS&amp;J and the Northern &amp; Central California Chapters of URISA</strong></td>
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