CalGIS is definitely the place to learn about the Best in California GIS.
Thank you to all of the GIS professionals who will be presenting their
good work at the conference, sharing ideas and generating discussion!
I’d like to welcome you to Anaheim for the 22nd annual CalGIS Conference! Your participation at CalGIS, ensures we all remain part of an active, engaged and vibrant geospatial community in California. I’m Steve Steinberg. I’m this year’s conference chair and a representative of the SoCal Chapter of URISA. Once a year, CalGIS provides our community an opportunity to gather together to learn, share and interact our use and applications of GIS in our state, bringing together professionals from the private, public and academic sectors along with students preparing to embark on their own careers.

THEME AND THANK YOU’S:

While our theme this year is “The Magic of GIS” this conference did not magically come together! As you might guess, this year’s conference is the result of significant effort by volunteers from our sponsoring organizations: the four California URISA chapters, the California Geographic Information Association (CGIA) and invaluable support from our URISA Conference Managers. Please take a moment to thank these individuals for their essential contributions as you interact with them over the next several days.

The planning committee works for an entire year to develop a conference program addressing important and timely topics, themes and tools. I am pleased to say that in this, our 22nd year, the committee has once again done a fabulous job! I cannot thank them enough for all of their volunteered time and effort to make this conference a success. Without the support of all the volunteers we wouldn’t be able to put on a conference. If you’d like to learn more about opportunities to get involved with next year’s conference planning, please talk to any one of us.

Anaheim photos courtesy of Visit Anaheim.

CONFERENCE HIGHLIGHTS:

On Tuesday we are offering four excellent workshops including full day sessions on Deploying Mobile GIS and Open Source GIS. There are also two half-day workshop options: NG9-1-1 and the GIS Workflow in the morning and an Esri StoryMaps Workshop in the afternoon. I invite you to attend one or two of these workshops as you continue to extend your own GIS learning.

We are pleased to have Clint Brown, Director of Product Engineering at Esri for our opening keynote address: The Human Era of GIS. Clint will share perspectives on how web-based GIS and social mapping are creating new opportunities in our profession as GIS becomes more broadly accessible. Following the opening, and over both days of the conference we have a jam-packed program offering presentations by your colleagues including members of industry, academia and government.

Be sure to attend our hosted lunch on Wednesday where the program will include a number of special presentations including vendor sparks and CGIA awards followed by dessert as you chat with our wonderful sponsors. At 2:00 we have an exceptional panel discussion on data visualization including six industry leaders. This should prove to be an informative and enlightening discussion about how visualization of data is evolving with a vast array of powerful new tools and technologies.

Then, check out the presentations from our three finalists for the student competition. Each will present their projects while competing for cash prizes and more! This same session will also include the ever-popular “Ignite” talks where your colleagues provide rapid-fire five-minute presentations about their GIS work. Afterwards grab a beverage and hors-d’oeuvres while you chat with our poster session presenters and sponsors at the evening reception.

Informative presentations continue throughout the day Thursday, including a wide array of sessions, and two special lunch meetings for Women in GIS (men are welcome too) and Young Professionals. We are pleased to host Dr. Benjamin Tuttle from the National Geospatial-Intelligence Agency who will provide a not-to-be-missed closing keynote. Ben will discuss how the NGA implemented both proprietary and open technology to meet the needs of the agency. If you’ve ever wondered how to leverage and integrate open source geospatial tools into your organization, this is the talk for you!

Throughout the conference we have provided multiple opportunities for you to visit with our sponsors in the exhibit hall. Please take time to talk with them, learn what’s new and to thank them for their support of the conference and our profession. Without our exhibit hall sponsors we couldn’t provide such a fantastic conference at such an affordable price.

Our California GIS community creates magic every day. Through your participation at CalGIS we get the opportunity to come together to share a few items from our individual bag of tricks, and hopefully learn some valuable new ones. Take this time to reconnect with friends and colleagues and meet new ones.

Here’s wishing you a magical conference!

Steven J. Steinberg, Ph.D., GISP, Conference Chair, CalGIS 2016
steves@sccwrp.org
@steinbergspace
CalGIS 2016 Conference Committee Members

SoCal URISA (Host Chapter)
Melisa Caric Lee, GISP, Compass Rose GIS, Oceanside. Sponsorship Chair.
Wing Cheung, GISP, Palomar College, San Marcos. Student Competition.
Steve Steinberg, Ph.D., GISP, Southern California Coastal Water Research Project, Costa Mesa. Conference Chair. **

Central California
Jeff Orton, Wonderful Citrus, Delano. Program Committee Chair.
RuthAnne Harbison, GISP, GIS Coordinator, City of Merced. Social Committee Chair. **

BayGeo (BAAMA)
Mike Skowronek, GISP, AICP, CFM, Michael Baker International, Inc., Oakland, CA. Chapter Representative.

NorCal URISA
Christina Boggs, California Department of Water Resources, West Sacramento. Twitter Wrangler.
Carrie Carsell, GISP, Fehr & Peers, Sacramento. Program Committee and Conference promotion.

California Geographic Information Association (CGIA)

Conference Management:
Pat Francis, URISA, Des Plaines, IL
Wendy Nelson, URISA, Des Plaines, IL

** Also representing CGIA

CalGIS Registration

Ballroom Foyer
Tuesday, May 10: 8:00 AM – 5:00 PM
Wednesday, May 11: 8:00 AM – 5:00 PM
Thursday, May 12: 8:00 AM – 3:00 PM

Exhibition Hours:
Wednesday, May 11: 10:00 AM- 6:00 PM
Thursday, May 12: 10:00 AM – 1:30 PM

Open Spatial’s process workflow improvement solutions provide a new level of data validation against published as-built standards, prior to electronic submittal and data acceptance. Support, check and effectively realize the benefits of your chosen standard in a consistent, automated workflow. See how Open Spatial can help you improve your workflow by scheduling a demo at gismadesimple.com.

Services
• Enterprise GIS Design, Implementation & Support
• Enterprise GIS Software Development & Training
• GIS Data Management
• 3D GIS Mapping & Modeling

Products
• GeoSystems Monitor
• Custom Web AppBuilder Widgets
• ArcGIS Online Launch Kits
• ArcGIS for Local Government Maps & Apps

Radically Improve Your Workflow

Plan Check to GIS in Minutes

at US #411

asconstructed.com | openspatial.com | 800 694 0293

OpenSpatial
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

Esri Booth 105/107

GOLD SPONSOR

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 US, most national governments, and in our colleges and universities. Esri applications run on desktops, mobile, web and enterprise servers, providing the backbone for data management, planning and analysis, operational awareness, mobile enablement and public outreach.

SILVER SPONSORS

CycloMedia Technology

www.cyclomedia.com

CycloMedia Technology Booth 304

CycloMedia’s smart imagery solution creates GeoCycloramas, highly-detailed and positionally-accurate 360-degree panoramic photos, providing current views of street-level environments. Our 100 Megapixel GeoCycloramas provide a clear view of details such as house numbers, property condition and building materials. CycloMedia’s patented technology records the exact position and orientation of every pixel, allowing you to take accurate measurements, display GIS data layers, and collect data directly in GeoCycloramas. Our technology lets your staff see properties and their surroundings from multiple vantage points; validate property data; and create images for property cards or reports — all without leaving the office.

Dudek

www.dudek.com

Dudek Booth 205

Dudek’s GIS professionals provide an array of services, from GPS data capture and high-end analysis and modeling, to complex application development with enterprise data integration. Dudek’s Kerata platform integrates easy-to-use mobile data collection and real-time upload of geospatial information so field and office staff can share the most current field data — Collect, Sync, and View & Report. Headquartered in Encinitas, Dudek’s 300 employees work in seven offices throughout California.

Hexagon Imagery Program

As part of Hexagon, North West Geomatics is proud to be managing the Hexagon Imagery Program — Current and quality orthorectified imagery that meets rigorous industry accuracy and quality standards through the use of the most sophisticated processing methodologies, to provide industry professionals with a product that can be used with confidence. Enhance your GIS experience and make better decisions with the HxIP.

Note: Due to a last-minute schedule conflict, Hexagon Imagery Program (HxIP) had to cancel their attendance at CalGIS 2016. They sincerely regret not being at CalGIS this year and invite you to contact them for more information about their imagery solutions: Tammy Peterson, Director, Sales Strategy & Support, tammy.peterson@hexagon.com

BRONZE SPONSORS

Allen Instruments & Supplies

www.alleninst.com

Allen Instruments & Supplies Booth 305

Allen Instruments & Supplies is a leading supplier of innovative measurement products and positioning solutions in the fields of surveying, engineering, mining, construction, fleet management and GIS to business, government, education and the private sector.

California Surveying & Drafting Supply

www.csd sinc.com

California Surveying & Drafting Supply (CSDS) is a leader in surveying, mapping, 3D laser scanning and wide-format printing technology. An authorized distribution partner for Trimble, ESRI, FARO and HP, CSDS offers sales, service, training, rentals, support and real-time network (RTN) subscription services.

Cartegraph

www.cartegraph.com

Cartegraph Booth 300

Cartegraph is an operations management solution designed for local government organizations. It connects seamlessly with the ArcGIS platform, empowering users to leverage spatial data to solve problems in a whole new way.
Hexagon Geospatial helps you make sense of the dynamically changing world. Known globally as a maker of leading-edge technology, we enable our customers to easily transform their data into actionable information, shortening the lifecycle from the moment of change to action. Hexagon Geospatial provides the software products and platforms to a large variety of customers through direct sales, channel partners, and Hexagon businesses. For more information, visit hexagongeospatial.com.

Harris Corporation

www.harris.com

From sensors and software to actionable information, Harris Geospatial Solutions help GIS users make informed decisions — when and where they are needed. Advanced ENVI image analysis tools are available directly within ArcGIS® environment. And, our Geiger-mode LiDAR sensor collects high-resolution data faster and more cost effectively than traditional sensors.

Infogroup

www.infogroup.com

Infogroup Government Services is the leading provider of address based physical location data. Infogroup provides detailed elements for 31 million business locations and 125 million household locations nationwide. All location data is geo referenced and available in flat file formats. Historical benchmark data is also available in the same formats. Current subscribers include GIS professionals in transportation

Interwest Consulting Group

www.interwestgrp.com

The Interwest GIS Team offers cost effective professional staffing and project based consulting services for short and long term needs within all levels of public agencies. Providing GIS services within Public Safety, Public Works, Maintenance, Planning, Utilities, Land Development, Economic Development, Finance and Public Transit environments is our specialty.

Latitude Geographics

www.latitudegeo.com

Hundreds of organizations around the world rely on Geocortex software by Latitude Geographics to transform how they design, develop and maintain Esri ArcGIS mapping applications. They do even more, faster, at less cost and risk, and with better results. Latitude Geographics has been an Esri Platinum Partner since 2010.

Michael Baker International

www.mbbakerintl.com

Michael Baker International is a full service-consulting firm with over 700 employees in California providing planning, environmental, engineering, surveying, construction management, and related professional services. Overall, Michael Baker is a large international firm with more than 6000 employees in 90 offices nationwide. Michael Baker possesses the full range of capabilities to provide turnkey GIS services for a wide range of geospatial information technology (GIT) projects in each of these disciplines. A testimony to the firm's client services capabilities - over 85 percent of Michael Baker's work is for repeat clients. Among Baker's innovative technology services is our implementation of internet based mapping and database services to large agencies and utilities to better manage their infrastructure. Such implementations include both native and HTML5 web based mobile
applications for two-way field intelligence. We also maintain a fleet of mobile Light Detection and Ranging (LiDAR) systems to provide an efficient survey solution over traditional methods for cataloging information on our Nation’s critical infrastructure at resolutions unachievable by handheld GPS, aerial LiDAR or photogrammetry. With recent changes in FAA rules, Baker is among the first firms to acquire a fleet of aerial vehicles and fully implement UAV flown data into our project processes.

Open Spatial
www.openspatial.com
Open Spatial works with a wide range of industries delivering solutions to everyday infrastructure asset management challenges. With a focus on productivity improvements, definable return on investment and long-term savings, our technologies bridge the gap between CAD, GIS, BIM and asset management applications.

Psomas
www.psomas.com
Stop by and check in with Psomas to share your interests, project activities, and learn what Psomas has been doing in the last year. We look forward to meeting you and renewing the many relationships developed since the first CalGIS we sponsored 21 years ago. Our spatial services address city, county, state, federal, and utility business areas. We provide full lifecycle GIS services including needs assessment and planning, data integration and development, web and mobile applications, and program management. Technologies include mobile laser scanning for 3D data capture, BIM, CAD, Esri ArcGIS, Geocortex, SitStat, and database solutions.

Psomas is a full service engineering firm with over 550 employees in key discipline areas including GIS/IT consulting, surveying, engineering, environmental, water engineering, special districts financing, and construction management. We are focused on applying best practices and innovative technology solutions to projects and your work processes. Psomas is known for our effectiveness in regional and enterprise GIS development resulting from a combination of effective communication and customer engagement plus appropriate GIS technologies and workflow processes.

QlikMaps
www.us.analytics8.com/qlikmaps
QlikMaps is a location analytics platform. QlikMaps allows you to make discoveries in your data that graphs, charts, and other visualizations just can’t reveal, helping to uncover new patterns and understand your business in new ways. With QlikMaps you can perform geographic drill down analysis, view data on multi-layer maps, and perform data mash ups with geographic data outside of your data model. QlikMaps is easy to install and configure, so you can start creating mapping visualizations within minutes.

Source Graphics
www.sourcegraphics.com
In business since 1989, Source Graphics is a leading Service and Solutions company, specializing in the CAD and GIS markets. Our friendly and experienced Customer Service Team is dedicated to serving you. Whether your needs call for equipment, service, supplies, application software or prototyping services, we are the best source for you.

Terranodo LLC
www.terranodo.io
Terranodo LLC is a US based technical consultancy specializing in the development and use of Free and Open Source Software (FOSS) Geographic Information Systems (GIS) and technology, particularly the Spatial Data Infrastructure (SDI) platform GeoNode and related components. Our offices are located in San Diego and Barranquilla we collaborate with a large number of team members around the world.

USA Imaging, Inc.
www.usa-imaging.com
USA IMAGING, Inc. is a provider of innovative location based, Enterprise Document Management Solutions with Integrated Geospatial Functionality focused on data unification across department boundaries. You will be able to streamline operations and services with a single management view and a common user interface to search, analyze and view regardless of document type or location. We believe that GIS and EDMS framework are an Essential part of every agency. With Esri data integration, you’ll replace manual tasks with automated processes to gain great efficiency while creating an enterprise information hub to make your job easier.

VESTRA Resources, Inc.
www.vestra.com
Since 1988, VESTRA Resources, Inc. has been an industry leader in Enterprise GIS design, customization and implementation. VESTRA is an Esri Certified Gold Partner, ArcGIS Online Specialty Partner, and ArcGIS for Local Government Specialty Partner offering products and services to clients of all sizes representing government and private organizations nationally.

NONPROFIT SPONSORS

California State University Long Beach
www.ccpe.csulb.edu
The Master of Science in Geographic Information Science degree is a one-year, 30-unit program at CSU Long Beach. MSGISc is designed to provide students with core geospatial analytic and technical competencies, and exposes students to the business and interpersonal skills that will make its graduates competitive in the workplace.
**Claremont Graduate University**  
Booth 207

www.cgu.edu/cisat

Our Program - Graduate Study at the Frontier of GIS. Claremont Graduate University’s Center for Information Systems and Technology (CISAT) conducts research and graduate education at the forefront of this innovative field, utilizing our close proximity to leaders in the industry to fuel practical student engagement with GIS software, implementation, and analysis.

**University of California Riverside**  
Booth 202

www.extension.ucr.edu/gis

UC Riverside Extension is the continuing education branch of the University. The award-winning Certificate in GIS provides practical hands-on learning from top-notch GIS experts. Take courses throughout the year or earn the Certificate in six weeks during the intensive GIS Summer Academy.

**University of Redlands**  
Booth 203

www.msgis.redlands.edu

The University of Redlands’ Master of Science in Geographic Information Systems Program is a one-year intensive program designed for professionals seeking to enhance their existing academic foundations with a comprehensive understanding of geographic information science fundamentals and the use and application of GI technologies. Instruction is provided through a mixture of lectures, written exercises, seminars, practical work, and individual and group projects. A final Major Individual Project integrates and demonstrates students’ newly attained knowledge and skills.

**Rio Hondo College**  
Booth 301

www.riohondo.edu

Rio Hondo College’s GIS Program offers a CA Certificate of Achievement for Geographic Information Systems (GIS). The CA state approved program offers convenient scheduled courses at community college fees for working professionals. Classrooms, and curriculum are developed with input from leaders in the local GIS industry. Students can transfer courses to 4 year institutions. Several courses are offered in the fall and spring. Introduction to GIS is offered during the summer with field trip to Esri International Conference. Rio Hondo College is conveniently located in Whittier within view of Los Angeles at the intersection of the 605 and 60 freeway. Additional courses are located at Los Angeles County Department of Public Works in Alhambra. For more information: www.riohondo.edu/gis

---

**Geospatial Data Acquisition**  
**Serving Clients Throughout the United States**

- **8 UltraCam Sensors**  
  2 UltraCamX - 3 UltraCam Eagle - 3 UltraCam Falcon®
- **9 Film Cameras**  
  Leica Metric RC-30’s & RC-20’s
- **2 Optech Gemini Sensors**  
  LiDAR coverage on both coasts
- **3 Unmanned Aerial Systems**  
  Both fixed wing and rotocraft solutions
- **21 Aircraft**  
  Ready to deploy to any location
- **4 Locations**  
  Philadelphia, PA - Tucson, AZ  
  Tyler, TX - Los Angeles, CA
- **Platforming Services**  
  Your Sensor, our Aircraft
- **Key-3D Point Clouds**  
  Radiometrically colorized point clouds of stereo imagery with 3D Printing available

9800 Ashton Road - Northeast Philadelphia Airport - Philadelphia, PA 19114  
www.KASurveys.com - info@kasurveys.com  
John Schmitt (PA Office): 215-677-3119  
Mary Hurley (CA Office): 805-701-2467  
Fax: 215-464-2889
Tuesday, May 10, 2016

Tuesday features a number of important workshops, an open meeting for the California GIS Council and an informal get-together at 5:00PM. If you pre-registered for one of the workshops, you have a ticket with your name badge. If you did not pre-register and are interested in attending, please stop by registration to check availability. Most require a registration fee.

8:30 AM – 12:00 Noon, half-day training
NG9-1-1 and the GIS Workflow
Room: Palm West
Registration Fee: $50
Instructor: Sandi Stroud, Public Safety GIS National Director, Michael Baker International

This URISA Certified Workshop is aimed at the GIS professional who is currently supporting or may support their emergency communications division in the future. In a fully operational next generation 911 system, GIS is the core component in determining how a 911 call is routed to the correct public safety answering point (PSAP). This will have profound impacts on local maintenance workflows, local data access, and data fidelity. We recognize there is a sincere lack of education available aimed at the GIS professional who may not be as versed with the 911 terminology or needs. This workshop is intended to provide an overview of next generation 911, GIS' role in such a system, the implications on local workflows, and illustrate common pain points and sources of errors in local GIS datasets.

8:30 AM – 5:00 PM, with break for lunch on own
Deploying Mobile GIS
Room: Garden A
Registration Fee: $100
Instructor: Tripp Corbin, GISP, CEO, eGIS Associates, Inc., Dacula, GA - URISA President-Elect

One way to meet demands for providing superior service levels and operational efficiencies under tightening budget constraints is to leverage new technology that places GIS data in the hands of field crews. This allows for improved management and better maintenance of work processes to properly appraise infrastructure assets and to meet service request response times. This URISA Certified Workshop is designed to provide local government managers with practical guidelines for building an effective mobile GIS program across multiple departments.

8:30 AM – 5:00 PM, with break for lunch on own
Open Source GIS Workshop
Room: Garden B
Registration Fee: $100 – A laptop computer is required for this session and we recommend you install QGIS beforehand.
Instructors: Jeffrey Johnson, Terranodo LLC, Landon Blake, Hawkins & Associates
Engineering and Santiago Giraldo, CartoDB

• Open Source GIS Tools
  Open source GIS is bringing the power of geospatial technology to all sorts of different organizations in California. During this full-day workshop, members of the California OSGeo Chapter show you how they are using open source GIS software in their own organizations. The speakers will demonstrate how to use popular open source desktop GIS software (including QGIS, PostGIS, GeoServer and others), explain how open source GIS software fits into their own workflows, and provide examples of projects where they have successfully implemented open source GIS.

  • Making Dynamic Maps with CartoDB
    In this session, we will quickly unpack how to tackle common and complex GIS challenges and analysis as we go from raw data to beautifully insightful, dynamic, interactive maps for the web. Participants will learn fundamentals of making maps in the CartoDB editor, and progress into advanced topics such as using Torque.js to create animated visualizations for pattern and anomaly detection, robust real-time enabled spatial queries and comprehensive spatial analysis using PostgreSQL & PostGIS. Focusing on working with different kinds of spatial data, participants will be equipped to use CartoDB’s editor and advanced functionality in future analysis and prediction projects after completion.

12:00 Noon – 1:00 PM
California GIS Council Working Session - Everyone is welcome!
Room: Garden C
Facilitator: Mark Greninger, Chair

The California GIS Council is the primary organization for GIS professionals to work together to promote the greater understanding and use of GIS across the state of California, and is open to GIS professionals who share an interest in promoting GIS across the state. This working session of the Council will be a brainstorm session focused on developing the Council’s Strategic Plan, focused on the following areas:

• Planning and Strategy
• Advisory
• Collaborative Policy Development
• California Spatial Data Accuracy
• Collaboration
• Communication

Come bring your experience and expertise to help develop strategies and tactics for the Council around these areas. Everyone is welcome! (Pick up a lunch at one of the hotel outlets and bring it to the meeting. Lunch is not provided.)

1:00 – 5:00 PM
Esri Story Maps Workshop
Room: Palm West
No Registration Fee
Presenter: Rupert Essinger is a member of the Esri Story Maps team.

In this workshop you’ll learn how to create story maps with the ArcGIS platform. Story Maps are interactive web applications that let you combine interactive maps, narrative text, images, videos, 3D web scenes and other media to engage and inspire your audience. In this workshop we’ll show you how to harness the power of maps and geography to tell your story: whether you want to tell the general public about a planning project; engage supporters and the media about a conservation issue; present the results of your GIS analysis work to stakeholders inside your organization; or simply create a personal story about a trip or place you love. We’ll show you the different story map application templates you can choose from and walk you step-by-
step through the process of building, refining, and publishing a story map. Learn the basics plus get tips and tricks to turn your story map into a polished communication product. We’ll also show you best practices for promoting your story map to your audience. But most of all we hope to inspire you to tell your story!

Audience: Anyone interested in location-based storytelling. There are no prerequisites for this course. You may have a story map idea already in mind. Or you may just want to find out more about what these tools may offer your organization. Optionally, attendees can bring a laptop and we’ll get you up and running making story maps. ArcGIS Online knowledge a plus but not required.

No web development skills required. No registration fee required. Participation is limited.

5:00 – 6:00 PM
CalGIS 2016 Mappy Hour
Location: Sheraton Pool Bar

Gather at the Sheraton’s Pool Bar for an informal non-hosted Meet and Greet. Whether you’re attending a pre-conference workshop or arriving on Tuesday, it is a great way catch up with old friends, meet new ones, and enjoy some time together.

WEDNESDAY, MAY 11, 2016

8:30 – 10:00 AM
Welcome and Opening Keynote Address: The Human Era of GIS
Room: Park Ballroom

Welcome to CalGIS 2016 in Anaheim! Hear from Steve Steinberg, Conference Chair, and a representative of each of the sponsoring organizations—CGIA and the California URISA Chapters. Tripp Corbin, President-Elect of URISA, will also provide a brief update about URISA programs and activities.

Keynote Speaker: Clint Brown, Director of Product Engineering, Esri

Ten years ago, as people everywhere on the planet began to use and be amazed by Google Maps and other web mapping tools, we all became GIS users. The recent implementation of Web GIS and social computing are creating exciting new opportunities to move beyond our traditional, highly technical application of GIS. We are on the verge of big changes - for who will be engaged by GIS and how it can be used by virtually everyone. We are entering the Human Era of GIS. This is an important story about where GIS has been and where we are headed. As practitioners, how will we transform our dialog and communications about our work to make GIS more broadly accessible by an ever-expanding community of new users.

Navigating the Conference:
Presentations were slotted within 60-90 minute sessions and are presented concurrently throughout the conference. Attendees may choose to attend whichever presentation reflects their interests. Feel free to move from one meeting room to another to catch the presentations you wish to hear. Start times are noted. Be sure to silence your phone! Too many presentations of interest? You will receive a link to download the Conference Proceedings approximately six weeks after the conference to review all of the presentations.

10:00 – 10:30 AM
Exhibit Hall Break
Room: Plaza Ballroom

10:30 AM – 12:05 PM Sessions
Room: Garden AB
Session Moderator: Christina Boggs, Engineering Geologist, California Department of Water Resources

• 10:30 – 10:50 AM: Customizing a SharePoint GIS to Provide Construction Information to LAX
  Donald Chinery, GISP, GIS Project Manager, Los Angeles World Airports, Los Angeles, CA
• 10:55 – 11:15 AM: Water Main Replacement Analysis Utilizing GIS & Annualized Lifecycle Cost Model
  Nathaniel Mirin, GISP, GIS Analyst, California Water Service, San Jose, CA
• 11:20 – 11:40 AM: GIS Data Management for Large Infrastructure Projects
  Roland Martin, CGeog (GIS), FRGS, Senior Consultant, Arup, Los Angeles, CA
• 11:45 AM – 12:05 PM: GIS and Asset Management Integration- From 0 to 60 in 6 Months
  Melisa Caric Lee, GISP, President, Compass Rose GIS, Oceanside, CA

Room: Garden C
Session Moderator: Sheila Steinberg, PhD, Professor of Social and Environmental Sciences, Brandman University

• 10:30 – 10:50 AM: Real Time Transit Data Changing Trip Planning With Open Trip Planner
  Marshall Ballard, GISP, Senior Transportation Planner - GIS Coordinator, Santa Clara Valley Transportation Authority (VTA)
  Ragi Burhum, Founder, AmigoCloud, San Francisco, CA
  Joshua Pepper, Medical Student and Researcher, UC Berkeley / UCSF Joint Medical Program, Berkeley, CA
• 11:20 – 11:40 AM: Bridging GIS and Document Management for an Enterprise Integration Framework
  Keith Russell, Director of Product Development, USA Imaging Inc., Poway, CA
  Radek Nemec, President, USA IMAGING, Inc., Poway, CA
• 11:45 AM – 12:05 PM: GIS Professionals Affecting and Affected by Public Policy Issues
  Bruce Joffe, GISP, Principal, GIS Consultants, Piedmont, CA

Room: Palm East
Session Moderator: Carrie Carsell, GISP - Senior GIS Specialist - Fehr & Peers

• 10:30 – 10:50 AM: Investigating Roam: An Open Source Tablet Solution
  John Hickok, GISP, LS, Principal GIS Analyst, Los Angeles County, Department of Children and Family Services, Norwalk, CA
• **10:55 – 11:15 AM**: Making PostgreSQL View Tables Work for You  
Bond Harper, GISP, ENV SP, Senior Analyst, Arup, Los Angeles, CA

• **11:20 – 11:40 AM**: An Automated Mapping Problem with a Feature-Driven Solution  
David Clark, GIS Analyst, Quad Knopf, Inc., Bakersfield, CA Kris Law, GIS Developer, Quad Knopf, Inc., Bakersfield, CA

• **11:45 AM – 12:05 PM**: Geocoding in Excel  
Ben Harloe, GIS Technician, Evari GIS Consulting, San Diego, CA

**Room: Palm West**  
Session Moderator: Jeff Orton, Director GIS, Wonderful Citrus

• **10:30 – 10:50 AM**: Thinking Way Outside The GIS Map: A 30 Minute Tour of Next Gen Innovative Geospatial Analytics Tools!  
David Savlowitz, CEO/Founder, Competitive Analytics, Costa Mesa, CA

• **10:55 - 11:15 AM**: The Power of Database Views for Complex Data Display  
Russell Mercer, GISP, Get Spatial Consultant, San Diego, CA

• **11:20 – 11:40 AM**: Look to the Future, Leave the Past Behind  
Aaron Steele, Sr. Vice President of Business Development, CartoDB, San Francisco, CA

• **11:45 AM – 12:05 PM**: Innovative Web Mapping Using Big Data, Scripting, and Infographics  
Brandon Haydu, Transportation Consultant, Fehr & Peers, Los Angeles, CA

**3:45 PM – 5:00 PM**  
Room: Park Ballroom

**Student Competition**  
Session Moderator: Jane Schaefer-Kramer, California Department of Water Resources

Students of geospatial technology in California colleges were invited to submit abstracts and videos for their projects to compete for the opportunity to present at CalGIS 2016. This session features the finalists who will present their work and answer questions from the panel of judges and the audience. Judges will then deliberate and select the winners. Your attention and encouragement for these future GIS practitioners is welcomed.

- Teresa Hodges - Chicago Crime: Taking it to the Streets: Analyzing Gun Crime through Neighborhood Street Configurations
- Thomas Crimmel - North County Food Policy Council Web App
- Kari Palm - Highway Bridges at Risk in San Diego County

**IGNITE**  
Session Moderator: Steve Steinberg, Conference Chair

A big hit every year, IGNITE presentations (also known as lightning talks) are limited to five minutes. Educational and entertaining!

- Quick Maps Using Microsoft’s Excel Power View and Power Map  
Fred Dominguez, GISP, Research Analyst, Los Angeles County Department of Public Health, Whittier, CA
- Crowdsourcing Bike Parking Locations with Esri’s GeoForm  
Carrie Carsell, GISP, Senior GIS Specialist, Fehr & Peers, Roseville, CA
- California GIS Council  
Mark Greninger, LA County Geographic Information Officer, Los Angeles County, Los Angeles, CA
- GIS Professionals Affecting and Affected by Public Policy Issues  
Bruce Joffe, GISP, Principal, GIS Consultants, Piedmont, CA

**5:00 – 6:00 PM**  
Exhibit Hall Networking Reception & Poster Session  
Room: Plaza Ballroom

Spend some quality time after the IGNITE session with our generous sponsors in the CalGIS Exhibit Hall. Get your technology questions answered, enter some raffle drawings, and enjoy some snacks before heading out to enjoy the evening!

Visit with the poster presenters and learn about their projects.

**Poster Participants**

- Is California’s Aging Infrastructure the Principal Contributor to the Recent Trend of Power Outage?  
Vivian Sultan, MBA, MSIS, CPSM, PhD Student, Claremont Graduate University Claremont, CA
- Trail Planning Using GIS  
Juan Ramirez, GISP, GIS Specialist/Environmental Planner, CDM Smith, Los Angeles, CA
8:30 – 10:05 AM Sessions
Room: Garden AB
Session Moderator: Jane Schafer-Kramer, GIS Analyst, California Department of Water Resources

• 8:30 – 8:50 AM: USGS National Geospatial Program 3-Dimensional Elevation Program for California
  Carol Ostergren, BS, MS Geology, Geographer, U.S. Geological Survey, Sacramento, CA

• 8:55 – 9:15 AM: US Census Bureau: 2020 Decennial and Other Updates
  Tim McMonagle, Geographer, U.S. Census Bureau, Van Nuys, CA

• 9:20 – 9:40 AM: Field Test Accuracy Comparison for GNSS Receivers for Mobile GIS Use
  Matt Alexander, Vice President, Anatum Field Solutions, LLC, Beaverton, OR

• 9:45 – 10:05 AM: VRS for High Accuracy GPS, An Educational Break Down of Exactly How it Works
  Isaiah Mack, M.S GIS, Manager, Mapping and GIS Department, California Surveying & Drafting Supply, Sacramento, CA
  Jon Gipson, GISP, PG, Mapping and GIS Team Member, California Surveying & Drafting Supply, Sacramento, CA

THURSDAY, MAY 12, 2016

8:30 – 10:05 AM – Esri Gold Sponsor Session
Room: Palm West

Vision of ArcGIS: Leveraging Web GIS and Advancing Technology
This session will focus on the vision of Web GIS and how that is transforming organizations and the use of GIS. In addition this talk will highlight the technology advancement in ArcGIS to drive efficiency and improve decision making.

Damian Spangrud, Director of Solutions, Esri
Room: Palm East
Session Moderator: Nanette Pratini, GISP, GIS Associate, Albert A Webb Associates

- 8:30 – 8:50 AM: Utilizing Esri ArcGIS Online for Multi-agency Regional NPDES Reporting
  Brian Hoefer, GISP, Senior GIS Consultant, Psomas, Inc., Roseville, CA

- 8:55 – 9:15 AM: Lightweight Change Detection & Feature Extraction for GIS Update
  Frank Obusek, Applications Engineer, Hexagon Geospatial, Asheville, NC

- 9:20 – 9:40 AM: Improving the Spatial Data Infrastructure for L.A. County Water Management
  Anna Zisa, MSc candidate, Student Intern, McGill University & California Center for Sustainable Communities, Montreal, Quebec - Canada

- 9:45 – 10:05 AM: GIS as Centerpiece to Public Works Strategy - City of Anaheim Case Study
  Han Chu, PE, PLS, Vice President, Psomas, Riverside, CA

10:05 AM – 10:30 AM
Exhibit Hall Break
Room: Plaza Ballroom

10:30 AM – 12:05 PM Sessions
Room: Garden AB
Session Moderator: Sophia Garcia

- 10:30 – 10:50 AM: Advancing Environmental and STEM Education through GIS Service Learning
  Tory Elmore, GIS Coordinator, The Wildlands Conservancy, Oak Glen, CA

- 10:55 – 11:15 AM: Importance of an Education in Geography for the Emerging Drone Industry
  Jeffrey Miller, MA, Geography, Vice President, GeoWing Mapping, Oakland, CA

- 11:20 – 11:40 AM: GISP Certification Updates
  John Hickok, GISP, LS, Principal GIS Analyst, Los Angeles County, Department of Children and Family Services, Burbank, CA

- 11:45 – 12:05 PM: Educational Resiliency through Place-Based GIS Learning
  Sheila Steinberg, Professor, Brandman University, Irvine, CA

Room: Garden C
Session Moderator: Melissa Caric Lee, GISP, President, Compass Rose GIS

- 10:30 – 10:50 AM: A Decision Support System for Crop Cultivation in Northeastern Thailand
  Watanyoo Saksangiam, PhD Student, Claremont Graduate University, Claremont, CA
  J. Kimani, PhD Student, Claremont Graduate University, Claremont, CA

- 10:55 – 11:15 AM: Using ArcGIS Online and Collector to Maintain US Memorial Sites
  Andrew Haney, GISP, Burns & McDonnell Engineering, Inc, Senior GIS Analyst, San Diego, CA

- 11:20 – 11:40 AM: Is California’s Aging Infrastructure the Principal Contributor to the Recent Trend of Power Outage?
  Vivian Sultan, MBA, MSIS, CPSM, PhD Student, Claremont Graduate University, Claremont, CA
  Ahmed Alzahrani, PhD Student, Claremont Graduate University, Claremont, CA
  Hind Bitar, PhD Student, Claremont Graduate University, Claremont, CA
  Norah Alharbi, PhD Student, Claremont Graduate University, Claremont, CA

- 11:45 – 12:05 PM: Social Media, Big Data, and GIS: A Case of Predictive Crime Analysis
  Anthony Corso, Ph.D., M.B.A., Assistant Professor, California Baptist University Riverside, CA

Room: Palm East
Session Moderator: Mike Skowronek, GISP, AICP, CFM, Michael Baker International, Inc.

  Natalia Austin, GISP, GIS Analyst, Merced County Association of Governments, Merced, CA
  RuthAnne Harbison, GISP, GIS Coordinator, City of Merced, Merced, CA

- 10:55 – 11:15 AM: Big County NG9-1-1 Implementation: What Will It Take?
  Steve Bein, GISP, GIS Technician Manager, Michael Baker International, Irvine, CA


- 11:45 AM – 12:05 PM: Comprehensive Tsunami Evacuation modeling to Inform Emergency Management: A Case Study of Balboa Island, California
  Kevin Henry, Student Geographer, U.S. Geological Survey, Portland, OR

Room: Palm West
Session Moderator: Bruce Joffe, GISP, Principal, GIS Consultants

- 10:30 – 10:50 AM: Invigorating an Organization’s GIS Perspective
  Rachel R. Rodriguez, GISP, D7 GIS Coordinator, Caltrans - District 7, Los Angeles, CA

- 10:55 – 11:15 AM: Modeling Rockfish Habitat Suitability
  Devon Taylor, High School Senior (Student), Clark Magnet High School, La Crescenta, CA

- 11:20 – 11:40 AM: GIS Applications Examining the Spatial Distribution of Damselfish Populations
  Ahsa Miller, Grad Student, Clark University, San Jose, CA

- 11:45 AM – 12:05 PM: A Geospatial Survey of Anglers to Assess Fish Consumption from San Diego Bay
  Steve Steinberg, Ph.D, GISP, Principal Scientist, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA
12:00 – 1:00 PM

Lunch is on your own today. Take advantage of the hotel's many options for a quick bite or grab something to bring to one of these optional open meetings and participate in the discussion:

Room: Garden C
Open Meeting: Women in GIS
Facilitators:
• Christina Boggs, Engineering Geologist, California Department of Water Resources, West Sacramento, CA
• Danielle Bram, Director, Center for Geographical Studies – CSUN, Northridge, CA
• RuthAnne Harbison, GISP, GIS Coordinator, City of Merced, Merced, CA

Calling all Women in GIS! Come join us for an informal gathering of Women in GIS for an opportunity to share experiences, ask questions, and network with others. Women in GIS (WiGIS) is an international, professional, and social organization as well as an advocacy group for women. Members are a consortium of advocates from academia, government, and private industry to advance the presence of women and minorities in GIS. Be a part of the discussion!

Room: Garden AB
Open Meeting: Young Professionals & URISA’s Vanguard Cabinet

Calling all Young GIS Professionals! Network with your fellow young GIS professionals. Discuss challenges, ideas for advancement and opportunities to contribute and get noticed. Learn more about URISA’s growing Vanguard Cabinet, facilitating student competitions, mentoring, and outreach programs nationwide!

1:00 – 1:30 PM
Dessert Break & Raffle Drawings in the Exhibit Hall
Room: Plaza Ballroom

Head back to the Exhibit Hall for one last chance to get your technology questions answered before the exhibitors take down their displays. Raffle drawings will also take place during this break!

1:30 – 3:05 PM Sessions
Room: Garden AB
Session Moderator: Russell Mercer, GISP, Owner, Get Spatial Consulting

• 1:30 – 1:50 PM: Ground Truthing UAV Imagery Application in Easter Island Archaeology
  Kris Reinicke, MSGSci Candidate, Cal State Long Beach, San Diego, CA

• 1:55 – 2:15 PM: 3D Spatial Analysis for Local Governments
  Mary Ellen Rosebrough, GISP, Senior GIS Analyst, Interwest Consulting Group Elk Grove, CA

• 2:20 – 2:40 PM: Adventures with ArcGIS Online
  Abel Santana, Principal GIS Analyst, SCCWRP, Costa Mesa, CA

• 2:45 – 3:05 PM: Maps and Database Design as Communication Tools
  Jeff Stiles, GIS Analyst, Michael Baker International, Irvine, CA

Room: Garden C
Session Moderator: RuthAnne Harbison, GISP, GIS Coordinator, City Of Merced

• 1:30 – 1:50 PM: The GIS Blueprint for Conducting Rapid Damage Assessments
  Cory MacVie, Product Manager, Fulcrum Mobile Solutions, St. Petersburg, FL

• 1:55 – 2:15 PM: Streaming 3D Maps for All: The Magic of the Cloud
  Kevin DeVito, Founder, Executive Director CEO, CyberCity 3D, Inc., El Segundo, CA

• 2:20 – 2:40 PM: Benefits of Large Volume Production of High Density Airborne LIDAR using Geiger
  Anthony Palizzi, Major Accounts Manager, Harris Corporation, Highlands Ranch, CO

• 2:45 – 3:05 PM: GIS Integration with StreetSaver Pavement Management
  Mark Dumford, GIS Manager, Interwest Consulting Group, Elk Grove, CA
  Brad Findlay, GIS Analyst, Interwest Consulting Group, Elk Grove, CA

Room: Palm East
Session Moderator: Jesus Garcia, Coordinator, Kern County Superintendent of Schools

• 1:30 – 1:50 PM: Photorealistic GeoDesign
  David Leonard, ASLA, AICP, GISP Senior Project Manager, Parsons, San Diego, CA

  Christina Boggs, Engineering Geologist, California Department of Water Resources, West Sacramento, CA

More Events to Check Out:

NorCal URISA is proud to co-sponsor Sacramento State University Geography Department's Poster Palooza on May 17, 4 to 7 p.m. at the Sac State Alumni Center, 6000 J Street, Sacramento. Seniors present their capstone research seminar posters at this annual event; come and meet the next generation of geography and GIS professionals. Refreshments and great company will be provided. RSVP to president@norcalurisa.org.
• 2:20 – 2:40 PM: Regional Bicycle Gap Analysis for Fresno County
  Carrie Carsell, GISP, Senior GIS Specialist, Fehr & Peers, Roseville, CA

• 2:45 – 3:05 PM: HealthyCity.org - Information + Action for Social Change
  Robert Graham, MS, GISP, GIS/Web Programmer, Advancement Project, Los Angeles, CA

Room: Palm West
Session Moderator: Natalia Austin, GISP, GIS Analyst, Merced County Association of Governments

• 1:30 – 1:50 PM: Precision Mapping from Street Level Imagery for Asset Management
  Chris Aldridge, CP (ASPRS), RPP, PS, Geospatial Manager, David Evans and Associates, Inc., Portland, OR

• 1:55 – 2:15 PM: Web-Based Tool for Mitigation and Permit Compliance
  Mark McGinnis, GIS Manager, Dudek, Encinitas, CA
  Kyle Harper, Application Developer, Dudek, Encinitas, CA

• 2:20 – 2:40 PM: Combining Sensors to Map Urban Surfaces: An Object-Based Classification Approach
  Ana Rivera MSC, Graduate Student, San Jose State University, San Jose, CA

• 2:45 – 3:05 PM: GIS-Aided Production of Equipment Locator Maps for Metro Rail Maintenance and Support
  Michael Quant, Software Engineer, Los Angeles Metro, Los Angeles, CA

3:15 – 4:00 PM
Room: Park Ballroom
Closing Keynote Address - Delivering GEOINT in the Open
Over the last year the NGA has strived to be the first transparent intelligence agency. As such it looks to deliver GEOINT to all users when, where, and in the format needed. This new architecture is a hybrid of proprietary and open technology. In addition to proprietary and custom software and government data it is also deeply dependent on a broad swath of open source software, open standards, and open data. This talk will cover the road to this new system of GEOINT Services.

Keynote Speaker: Benjamin Tuttle, PhD, Geographer, National Geospatial-Intelligence Agency

Benjamin T. Tuttle is a geographer at the National Geospatial Intelligence Agency. He holds a BA in Geography and a BA in Environmental Studies from the University of Colorado, Boulder and an MS in GIS and PhD in Geography from the University of Denver. His research interests include human environment interactions and nighttime satellite imagery. Ben is also focused on development of web and mobile geospatial applications to enhance data delivery, analysis, and decision-making. He has authored and co-authored papers in journals including PE&RS, Geography Compass, GeoJournal, Environmental Management, and Remote Sensing of Environment. He is currently leading a team of mobile and web developers to deliver new capabilities for first responders, search and rescue teams, security personnel, and military users.

Get involved with your local California URISA Chapter and the CGIA!

Connect, share ideas and make things happen!

GET INVOLVED!
THANK YOU TO ALL OUR SPONSORS!

**GOLD**

![Gold Sponsor Logos]

**SILVER**

![Silver Sponsor Logos]

**BRONZE**

![Bronze Sponsor Logos]

**NONPROFIT**

![Nonprofit Sponsor Logos]