



New Training Opportunity!

One full or half-day workshop is included with your CalGIS 2019 full registration (previously requiring an additional fee). Workshops will be presented on Monday, April 8, 2019.

Classrooms are limited in size, so be sure to register early to attend your preferred course.

#1 Full-Day Workshop (8:30 AM-5:00 PM) **Water, Irrigation, Regulation, and Agriculture: Addressing Problems and Finding Solutions with GIS**

Jeff Orton, Director GIS, Wonderful Citrus, Delano, CA

In California, the complex issues at the intersection of water use, agriculture, resource concerns, and the regulatory environment, provide ongoing challenges to growers, regulators, and water providers. This workshop will include a series of presentations and conversations discussing some ways in which geospatial technologies can be used to help make sense of these issues, understand and respond to the regulatory environment, and assist in efficiently utilizing this critical resource.

Objectives include participants increasing their understanding of:

- Current and future developments in water regulation.
- Available state and local data supporting analysis and mapping of water resources and governing authorities.
- District, local government, and state efforts to implement sustainable groundwater management.
- Efforts of growers and water providers to use geospatial tools for compliance and efficiency.

Course Outline:

1. Introduction – setting the stage, water in California.
2. Measuring, managing, and forecasting water resources
3. SGMA, state regulation, data availability, and mapping the problem
4. Lunch on your own
5. Using imagery and sensors to understand water need/use
6. Case studies of growers using GIS to support water management
7. Actions – areas that can give the greatest payoff

Target audience: GIS, water district staff, and growers with technology interests.

#2 Half-Day Workshop (8:30 AM-12:00 Noon) **Get Out...with your GIS! Field Operations with ArcGIS Apps Workshop**

Jason Latoski, GISP and Dan Henderson, GISP, PMP, Esri, Sacramento, CA

Please join Esri's technical staff for this fun and exciting workshop. In this workshop you will learn how ArcGIS will help your organization optimize every step of your field operations:

- Coordinating your field workforce and work assignments with Workforce for ArcGIS

- Choosing the best data capture experience for your field users with Collector for ArcGIS and Survey123 for ArcGIS
- Building effective operation dashboards with Operations Dashboard for ArcGIS

Requirement: Participants are asked to bring their own laptops and mobile devices to follow along with the demos and presentation materials.

Additionally, have your login to your agency's ArcGIS Online or ArcGIS Enterprise Portal account pre-configured. Optionally, staff can help participants on site with a trial or developer account for the purposes of the workshop (please arrive early). Equipment is not required, but it will not be provided.

#3 Half-Day Workshop (8:30 AM-12:00 Noon) **Addressing: A Practical Guide**

Jeff Ledbetter, GISP, ENP, PMP, Public Safety GIS Expert, Michael Baker International, San Diego, CA

Addressing, and more specifically, documenting and management address in a GIS environment, is more an art than science. This workshop will inform participants of the many considerations that need to be undertaken when establishing and maintaining GIS-based address databases and applications.

The follow items will be covered:

- History of Addressing
- The anatomy of an address
- Managing addressing in GIS
- Public safety implications of addressing
- Other governmental enterprise implications of addressing
- Aggregating multiple address databases into a master address database

Target Audience: Address Technicians, GIS professionals that support address management and/or public safety, Public Safety/9-1-1 professionals that use GIS-based addressing data

#4 Half-Day Workshop (1:00-5:00 PM): **Unlock Your Organization's Data with ArcGIS Hub!**

Jason Latoski, GISP and Dan Henderson, GISP, PMP, Esri, Sacramento, CA

Please join Esri's technical staff for this dive into ArcGIS Hub workshop. In this workshop you will learn how ArcGIS Hub will allow your organization to unlock its data. ArcGIS Hub is a bridge between your government departments and the community it serves. Your foundational GIS work, done by internal departments, will help your entire community collaborate on projects.

- Learn from the Esri team on how to assemble your data, your hub team, and your initiatives.
- Learn how ArcGIS Hub allows your organization to collaborate with your community
- Learn how to build a ArcGIS Hub Site within your own organization

Requirement: Participants are asked to bring their own laptops to follow along with the demos and presentation materials.

Additionally, have your login to your agency's ArcGIS Online. Optionally, staff can help participants on site with a trial or developer account for the purposes of the workshop (please arrive early). Equipment is not required, but it will not be provided.

#5 Half-Day Workshop (1:00-5:00 PM): Open Street Map - Let's Peel Back the OSM Layers

Marshall Ballard, GISP, Transportation Informatics Architect, Fehr & Peers, San Jose, CA

Let's work together to understand the power of Open Street Map. Mixing lecture with hands-on training, we will discuss contemporary applications of Open Street Map, how to use it in your workflows, how to contribute to it, how it is used for humanitarian disasters, and review success stories of its use.

Learning Objectives:

- Review OSM tags and how to use the OSM Wiki.
- Review Layers found in OSM.
- How to edit OSM.
- Map an area of Fresno previously unmapped.
- Using OSM for transportation network analysis.

Outline:

- Introduction to OSM
- Common Uses
- Basemap and more
- Tags - what do they mean
- Wiki - your guide to tags and your documentation
- Tools for editing
- Data Extraction
- Applied use of OSM data
- HOTOSM - Humanitarian Open Street Map Team

Hands-on: Bring a laptop/tablet with Chrome or Firefox as your browser. Please create an Open Street Map account in advance if you do not already have one.

Cost: One full-day or half-day workshop is included with full CalGIS 2019 registration; \$195 (\$245 for nonmembers) if only attending a workshop or adding a second half-day workshop.