



# CCVGPG

## September 2012 Newsletter

Welcome to the first edition of the CCVGPG Newsletter. The first section of the newsletter provides information on upcoming chapter events and other geospatial events in our region. The second section updates you on the latest CCVGPG Working Group news, and provides information on planning for future CCVGPG events and activities. The final section briefly discusses software development activities related to CCVGPG projects and activities.

We hope the newsletter will help keep you informed about CCVGPG activities.

### CCVGPG Events

#### CCVGPG Fall 2012 Meeting

The 2012 Fall Meeting will be hosted by KSN. The meeting will take place at KSN's office located at 711 North Pershing Avenue. Scott Gregory, the California GIO, will be our first speaker at the meeting. He is going to talk about his efforts to help build a repository for geospatial data produced and maintained by state agencies. (Open source software is being used to build the data repository.)

Landon Blake will provide our second talk. His topic will be the application of OpenJUMP, and open source desktop GIS program, to the management of sanitary sewer networks. A short demonstration of OpenJUMP working with sanitary sewer network data will be included in his talk.

The meeting will conclude with an update on CCVGPG Working Group activities and planning for upcoming chapter activities.

There is no cost to attend the meeting. If you would like to attend, please let Landon Blake know you are coming. ([sunburned.surveyor@gmail.com](mailto:sunburned.surveyor@gmail.com))

#### OSGeo California 2012 Annual Meeting

The OSGeo California Chapter will hold its 2012 Annual Meeting on October 13, 2012 from 9AM to 3PM. The meeting location is 1221 South Bascom Avenue, San Jose, California.

Frank Wammerdam will be presenting a talk entitled "OSGeo Global Activities".

Ragi Burhum will be presenting a talk on the use of HTML5 and Node.js for geospatial web applications. Landon Blake will be discussing his new open source KML Toolkit.

The meeting will conclude with a KML Toolkit code sprint.

## Working Group Updates

### PLSS Working Group

CCVGPG PLSS Working Group Volunteers Kim Nob, Joe Neely, and Joey Waltz have begun work on the San Joaquin County PLSS Maintenance and Improvement Project. Research has been started for several PLSS sections near Manteca, and the volunteers are being trained to use OpenJUMP to prepare cleaned GDCB data as the foundational GIS layers for the project. Integration of the records research and field work to locate catalog PLSS corner status should begin soon. A PLSS GIS data model is also being developed as part of this work.

### Utility Working Group

The Utility Working Group has developed a simple GIS data model for sanitary sewer networks. The GIS data model is currently being refined and documented. It is also being tested in two (2) different pilot projects.

### Survey Control Working Group

The Survey Control Working Group has published the first version of the Central Valley Control Network. This network includes PBO and CORS stations from around the California Central Valley and is on the current NGS horizontal and vertical datum.

A second project to build a survey control GIS for the City of Modesto is in incubation.

As part of the work on both of these projects a survey control GIS data model is currently in development.

### Source Code

Work has begun on tools to work with network topology and other utility data in the open source desktop GIS program OpenJUMP. These tools will include the ability to enforce network topology rules and to perform analysis using network structure. All of the source code for these tools will be released under the GPL 3, an open source license. You can view the source code here:

[http://surveyos.svn.sourceforge.net/viewvc/surveyos/java/sandbox/openjump\\_network\\_tools/](http://surveyos.svn.sourceforge.net/viewvc/surveyos/java/sandbox/openjump_network_tools/)

Planning has also started for the development of LIDAR tools for

OpenJUMP. These tools will allow you to perform operations like assigning point elevations from the nearest LIDAR measurement, or the creation of profile data over pipe alignments using LIDAR derived surfaces. All of the source code for these tools will be released under the GPL 3, an open source license. You can view the source code for these tools here:

[http://surveyos.svn.sourceforge.net/viewvc/surveyos/java/sandbox/openjump\\_lidar\\_tools/](http://surveyos.svn.sourceforge.net/viewvc/surveyos/java/sandbox/openjump_lidar_tools/)

## **Education**

CCVGPG is cooking up its first educational course. Volunteer instructors will be teaching the class in a traditional person-to-person manner, but the courses will also be offered online through the Simple GIS Education Blog. Contact Landon Blake if you have a course topic to suggest or if you would like to help teach a course.