



Central Valley Chapter - California Land Surveyors Association
www.californiacentralvalleysurveyors.org

Central Valley Chapter THE PRISM

Volume 4, Issue 3

May 2014

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Table of Contents

Page 2	Classes, Training & Education
Page 2	Thoughts from the Editor
Page 3	National News
Page 4	CAD Tips & Tweaks
Page 5	State News
Page 7	It's In There
Page 8	Puzzle Page
Page 10	Pictures of the Issue
Page 11	Classifieds

Up
Coming
Meetings!

Date: May 28, 2014

Time: 6:00 p.m.

Location: Perko's @ 901 North Carpenter Road, Modesto

Speaker: Ron Nelms, PLS

Topic: Romancing the Rock

Date: June 25, 2014

Time: 6:00 p.m.

Location: Perko's @ 901 North Carpenter Road, Modesto

Speaker: Reg Parks

Topic: California Real Time Network (CRTN)

Announcements

Central Valley receives awards at the State Conference

The Central Valley Chapter received the following awards at the 2014 CLSA/NALS Conference:

2013 Chapter of the Year

2013 Chapter Newsletter of the Year

2013 Member of the Year - awarded to Keith Spencer

I would like to congratulate all of our officers and members for their hard work and dedication. The Central Valley Chapter would not have had such a successful year without your support. Thank you for your dedication.

Still not too late to support your Chapter

It is not too late to help support your local Chapter. If you have not sent in your 2014 Chapter dues please do so. You can bring a check to the next Chapter meeting. You can also pay [online through the chapter website](#). Please support your local Chapter.

Chapter Waives 2014 Dues for Unemployed Members

At the October, 2012 meeting the Central Valley Chapter voted to waive chapter dues for any members (or new members) who have become victims of the current economic downturn and are unemployed. Please fill out the Membership Application, enter "Unemployed" on Line 7 for the Name of Firm, Agency or College, submit your application, and your 2014 chapter dues are waived.

[Click here for the 2014 Membership Application](#)

Classes, Training, and Continuing Education

Mark Your Calendars

CAD Masters - AutoCAD Level I (3-Day Course)

May 12-14, 2014, Walnut Creek
 May 19-21, 2014, Fremont
 May 28-30, 2014, Sacramento
 June 9-11, 2014 Walnut Creek
 June 23-25, 2014, Sacramento
 July 7-9, 2014, Walnut Creek
 July 21-23, 2014, Sacramento

[Register here](#)

CAD Masters - AutoCAD Level II (2-Day Course)

May 22-23, 2014, Sacramento
 June 5-6, 2014, Fremont
 June 16-17, 2014, Walnut Creek
 July 7-8, 2014, Sacramento
 July 28-29, 2014, Walnut Creek

[Register here](#)

CAD Masters - AutoCAD Level III

July 3, 2014, Walnut Creek

[Register here](#)

CAD Masters - Civil 3D for Surveyors

May 12, 2014, Sacramento

[Register here](#)

CAD Masters - AutoCAD Civil 3D Intro (3-Day Course)

May 19-21, 2014, Sacramento
 June 2-4, 2014, Walnut Creek
 June 16-18, 2014, Sacramento
 June 30- July 2, 2014, Walnut Creek
 July 14-16, 2014, Fremont
 July 14-16, 2014, Sacramento
 July 28-30, 2014, Walnut Creek

[Register here](#)

Lorman Education Services -

Subdivision Map Act in California
 June 24, 2014, Sacramento

[Register here](#)

Lorman Education Services -

Plat and Subdivision Law in California
 June 27, 2014, Carmel

[Register here](#)

Land Use Navigators - The Subdivision Map Act

July 18, 2014, Bakersfield

[Register here](#)

If you have information about a training or class, please submit to: editor@californiacentralvalleysurveyors.org

Thoughts from the Editor



Central Valley Chapter's newsletter, The Prism was given to me back in 2010 as a concept. Our first edition came out in December, 2010 with 4 pages and two sponsors. Since then, we have grown to 12 pages, 13 sponsors, and 2 sustaining members. At the 2012 CLSA/NALS Conference we were awarded Newsletter of the Year for 2011, our first full year in print. We have now been given that distinction again for the second time for 2013. We have done so much over these past 3+ years, but I still feel like there is so much more we can & should be doing as a newsletter and as a Chapter.

We have now expanded to 2 full Chapter scholarships with the Chuck Kincaid and Tom DeLaMare memorials and supporting the Jesse Stanley memorial. We have accomplished this through the revenues collected from advertisements in our newsletter, as well as generous contributions from some of our Chapter members. I would like to continue to grow the newsletter to be able to support these scholarships completely with advertising revenue. I can't do this without the help of our Chapter members. In order to be able to have more ads I feel that we need to expand our articles and submissions by our Chapter members. Having original articles and submissions in our newsletter will bring new people, and new people will bring new ads. So, if you are willing to step up and help, submit your suggestion today.

If you would like to comment on this topic or suggest another, please submit it to:

editor@californiacentralvalleysurveyors.org

State News

CLSA Sponsors Center of Population Monument

by Annette Lockhart, PLS

In the 2000 census, the "center of the population" (COP) for America's most populous state was in a cotton field between the communities of Shafter (pop. 13,700) and Buttonwillow (pop. 1,300) amid the vast open tracts of western Kern County. In 2004 the Bakersfield Chapter of the California Land Surveyors Association and local officials commemorated the location by setting a COP monument at the median island of the Buttonwillow Rest Area, approximately 30 miles west. The monument remains but the California's center of population has moved.

According to the 2010 census, the center of population of the State of California now lies in a farmer's field southwesterly of Shafter on the south side of San Diego Street and 2,132 feet east of Wasco Avenue. The center of population can be defined as a place where an imaginary, flat, weightless and rigid map of the State of California would balance perfectly if all the residents were of identical weight. To commemorate this shift in location, a new monument was constructed at the Shafter Depot Museum in Shafter. In a coordinated effort with Shafter Historical Society (owner of the museum), society members and museum curator, Mr. Stanley Wilson, CLSA sponsored the monument construction and ceremony.

Per specific request by the society and museum, the monument is in the form of a full-fledged exhibit: A 10" diameter brass cap produced by Berntsen International, Inc., surrounded by a 4' x 5' brick-paved area and accompanied by a 20" x 16" bronze plaque. The exhibit is at the entrance to the museum and can be viewed through a wrought iron fence when the museum is closed. It was constructed by members of the Bakersfield Chapter.

The bronze plaque has the following inscription:

The survey monument below commemorates the geographic location of the center of population of the State of Cal-

Continued on page 9



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CAD Tips & Tweaks



Working With Station/Offset Pairs - Part 1

By Landon Blake, PLS

Introduction

In the last installment of CAD Tips and Tweaks we considered two (2) principles of good functional program design. We also thought about the first data structure for our route manager program. This data structure will hold data about station/offset pairs related to an alignment in our drawing. In this installment we will:

- Define a function that creates the data structures for station/offset pairs.
- Define a set of functions to access the elements of our data structure.

A Function to Define Station/Offset Pair Data Structures

The first function we want to code will create “instances” of our station/offset pair data structures in a drawing. We already briefly described the elements we want to store in our station/offset pair data structure. Let’s list these again:

Station
Offset
Offset Direction
Unique Identifier
Feature Code
Description

Most data structure in AutoLISP are based on a simple list of values. We will use a list to create our data structure for station/offset pairs. In addition to the six (6) elements listed above, we also want to store a text string that identifies the type of data structure. This will allow our code and other programmer’s code to determine data structure type with a simple inspection. We will name this data structure type “SurveyOS Station Offset Pair”.

Here is the code for the AutoLISP function to create a station/offset pair data structure:

```
(defun surveyos_station_offset_pair_create (station offset offset_direction unique_id feature_code description / )
(list "SurveyOS Station Offset Pair" station offset offset_direction unique_id feature_code description))
```

The first part of this code is the keyword “defun”, which tells the AutoLISP interpreter that we are defining a function in our code. The next chunk of text is the function name, which in this case is “surveyos_station_offset_pair_create”. The next bit of code is a list of arguments, or data values, that are passed into our function. (The name of these arguments appear before the slash. Names that appear after the slash identify local symbols or variables in our function.)

In the body of our function definition we use the built-in AutoLISP LIST function to construct a list with our elements for the station/offset pair data structure.

Note: We’ve just defined an AutoLISP command, not an AutoCAD function. Our function can be called by the user or by other AutoLISP code. However, calling an AutoLISP code from the command line isn’t very user friendly. We’ll want to define a regular AutoCAD command for our function and pair this command with a dialog box that allows the user to enter their station/offset pair data. We will do this in a later article.)

Data Element Access Functions for the Station Offset/Pair Data Structure

Now we want to create a set of functions that allow us to access the data elements of the station/offset pair data structure. Almost all of these functions will follow the same format. They use the built-in AutoLISP Function NTH to access the appropriate data element in the data structure. Here is an example of a function that obtains the station value from the data structure:

```
(defun surveyos_station_offset_pair_get_station (entity_list / )(nth 1 entity_list ))
```

Note that the first element in the list is stored at position 0, so the call to the NTH function shown above retrieves the second element of the list. The first element is the entity type string we defined earlier.

Sneak Peek

In our next installment of CAD Tips and Tweaks we will define a function to obtain a text value for the offset direction, which we are currently storing as a simple Boolean value represented by a 0 or 1. (A value of 0 means our station/offset pair is on the right side of the alignment, while a value of 1 means it is on the left side of the alignment.)

National News

Initial Point of Montana

By Stewart Nash, PS

One hundred and two years before Montana became the 41st State, the 1787 Northwest Ordinance established the rectangular survey system to make possible the transfer of Federal Lands to private citizens. That ordinance established the precedents by which the United States would expand westward across North America by the admission of new states rather than by the expansion of existing states. The extension of the newly formed rectangular system of surveys over the public domain has been in progress since that time.

The encompassing area of the Big Sky state was at one time mostly within the Missouri Territory, the lesser portion in the Oregon Territory of 1848. Then in 1863 it was entirely within the Idaho Territory, finally becoming Montana Territory in 1864. Throughout this period the lands were inhabited by Native Americans, tribes including Crow, Cheyenne, Blackfeet, Assiniboiné, and Gros Ventres in the central and northern area, and the Kootenai and Salish in the western portion, with the Flathead and Kalispel occupying the western mountains. Fur trappers and traders were the first white men to frequent the area of the Rocky Mountains, the beaver being the prominent fur for trade. Then Roman Catholic missionaries followed the trappers into Montana. They established Saint Mary's Mission in the Bitterroot Valley, thought to be the first permanent settlement in the state. There and other places the missionaries went, they also promoted agriculture and built sawmills.

Then in 1853 Colonel Isaac Stevens was selected to conduct a survey to locate a route for a railroad line to the west coast. His command performed surveys up the Missouri River by steamboat, while he and others crossed the plains, meeting at the mouth of the Yellowstone River. Continuing westward and entering the Bitterroot Valley at Fort Owen, Stevens instructed Lt. John Mullan to remain in the western Montana valley to conduct surveys: south to Fort Hall near Pocatello, Idaho; north to the Canadian border; and west to Walla Walla, Washington. Stevens was named the first governor of Washington Territory and had made treaties with the native Indians he encountered, particularly with the Blackfeet whom were ill thought of by all other tribes they encountered. Mullan located the most practical route for a railroad and in 1859-60, surveyed and built a military road from Fort Benton, Montana on the Missouri River to Walla Walla. Mullan also surveyed for a railroad grade along the nearby Columbia River to Fort Dalles, now the Dalles, Oregon. Interestingly while researching to write a historical book on the building of the military road and referencing the Bitterroot missionary work, Mullan described how an encampment of Flathead, Pend d'Oreilles, and Kalispel Indians surprised him. "When they had all assembled, by signal from their chief they offered up a prayer. This astonished me; it was something for which I had not been prepared. Every man was upon his knees, and in the most solemn and reverential manner offered up a prayer to God. For a moment I asked myself, was I among Indians? Was I among those termed by everyone, savages? I could scarcely realize it. To think that these men should be thus imbued, and so deeply too, with the principles of religion, was to me overwhelming."

The discovery of gold brought many prospectors into the area in the 1860's. The rapid influx of people led to boomtowns that grew rapidly and declined just as quickly when the gold ran out. Miners weren't the only early settlers in Montana. Cattle ranches began flourishing in western valleys as demand for beef in the new mining communities increased. As more and more white people came into the area, Indians lost access to their traditional hunting grounds and conflicts grew. By the mid 1880's the Montana Territory had a population of nearly 20,000. Sidney Edgerton was appointed as the first governor of the territory. It became necessary that a survey system be established as had taken place in other territories and established states. Solomon Meredith was appointed the first Surveyor General of Montana. He had been a Brigadier General in the Civil War, badly injured at the battle of Gettysburg and with a commanding presence standing at six feet seven inches tall, became an accomplished speaker.

When Meredith was summoned by Governor Edgerton to take the offered position, Meredith took with him a man he knew from his hometown in Indiana, Mr. Benjamin F. Marsh, chairman of the mathematic department of two different universities. Marsh was to receive the first contract for surveys and to handle the technical aspects of the proposed rectangular survey system in the Montana Territory.

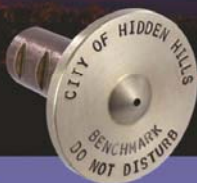
A third important individual who would assist and conduct actual field surveys was Colonel Walter W. de Lacy,

[*Continued on page 6*](#)

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Initial Point..., *cont. from [page 5](#)*

who had been engaged as a draftsman under General Meredith. Mr. de Lacy had been privately instructed by the head of the West Point Academy in surveying and related studies. He performed surveys in the east as well as in the Puget Sound area and surveyed out a military road there with compass and axes. He was also employed by Lt. John Mullan in building the military road across the Rocky Mountains. After the road was completed he became a prospector, his travels taking him up the Snake River and into the lower geyser basin in present Yellowstone Park, resulting in the first authentic but undocumented reports of the natural wonders of the park. He laid out the townsite of Fort Benton, Montana in 1864, and Deer Lodge and Argenta a year later. He was commissioned by the territorial legislature to prepare the first map of the territory in 1865 used to establish counties, and a second map two years later.

Surveyor General Meredith received his twenty-six itemized instructions for the proposed surveys from the General Land Office on May 9, 1867. The third item of the twenty-six said, "Your first duty will be to determine the initial point of surveys, or the point for the Principal Base with the Principal Meridian line to govern all the public surveys in Montana. It is desired that 'Beaver Head Rock', a remarkable landmark overhanging the river of that name be selected, unless a more prominent and suitable point exists. . . ." (This prominent abrupt end of a south running ridge with the Beaverhead River at its base lies 30 miles north of Dillon, Montana. It was a point recognized by Sacajawea in the 1805-06 Lewis and Clark exploration, now a state park.) The fourth item said, "The surveys must be made in accordance with the printed Manual of Instructions herewith marked "B" dated February 22d 1855 and the supplement of June 1, 1864. . . ." The sixth item instructed that the first surveys after the Base and Meridian lines were surveyed out were to extend the lines of public surveys to areas of the mining regions and to survey the claims in strict conformity to the law. Additional instructions ordered the deputy surveyors to indicate coal beds and fields that might affect the smallest legal subdivisions and the draughtsman was to represent them on the official plats in dark purple dotted color.

[Click for Complete Article](#)

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It's In There

8764. Record of Survey Technical Requirements

The record of survey shall show the applicable provisions of the following consistent with the purpose of the survey:

- (a) All monuments found, set, reset, replaced, or removed, describing their kind, size, and location, and giving other data relating thereto.
- (b) Bearing or witness monuments, basis of bearings, bearing and length of lines, scale of map, and north arrow.
- (c) Name and legal designation of the property in which the survey is located, and the date or time period of the survey.
- (d) The relationship to those portions of adjacent tracts, streets, or senior conveyances which have common lines with the survey.
- (e) Memorandum of oaths.
- (f) Statements required by Section 8764.5.
- (g) Any other data necessary for the intelligent interpretation of the various items and locations of the points, lines, and areas shown, or convenient for the identification of the survey or surveyor, as may be determined by the civil engineer or land surveyor preparing the record of survey.

The record of survey shall also show, either graphically or by note, the reason or reasons, if any why the mandatory filing provisions of paragraphs (1) to (5), inclusive, of subdivision (b) of Section 8762 apply.

The record of survey need not consist of a survey of an entire property.

If there is a section in the Professional Land Surveyors Act or Subdivision Map Act that you would like to have discussed or you have a comment on, please send requests to: editor@californiacentralvalleysurveyors.org

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PUZZLE PAGE



Originally posted on November 15, 2008
Out-of-plumb.com

Again, thank you to Chase Perryman for allowing us
to share his great work.

Center of Population..., *cont. from page 3*

ifornia for the 2010 census. The actual location of the 2010 center of population lies in a farmer's field on the south side of San Diego Street and 2,132 feet east of Wasco Avenue, four miles southwest of this point. The center of population can be defined as a place where an imaginary, flat, weightless and rigid map of the State of California would balance perfectly if all the residents were of identical weight. The center of population for the 2000 census was also commemorated by a survey monument which lies on the grounds of the south bound rest area of Interstate 5 near Buttonwillow.

2010 Census Population of California: 37,253,956

Geographic location of the 2010 Census center of population of California:

Latitude : 35°27'48.9" North

Longitude: 119°19'31.3" West

Sponsored by the California Land Surveyors Association

The dedication ceremony was held on October 19, 2013 on the grounds of the Shafter Depot Museum in Shafter, CA. as a part of a centennial celebration that the City of Shafter was having that weekend. The ceremony was attended by approximately 50 people. CLSA was represented as follows:

- CLSA Executive Committee: Rolland Van De Valk (President Elect), Jay Seymour (Secretary), and Steve Steinhoff (Member at Large)
- CLSA Board of Directors: Ron Nelms (Bakersfield)
- CLSA Central Office: Dorothy Calejari, and Crissy Willson
- Bakersfield Chapter Members: Donna Fujihara, Kristie Achee, and Tim Mack
- Los Angeles Chapter Member: Theresa Strazzella

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CLSA EDUCATION FOUNDATION

Land Surveying Photo Gallery



California Land Surveyors Association Education Foundation would like to thank Bryant Sturgess for generously donating his collection of historic images.

The proceeds from the photos sold on this website will be used to fund scholarships for land surveying students.

Pictures of the Issue



MEMBER OF THE YEAR
Chapter Rep Keith Spencer and
CLSA President Roland VanDeValk



2013 Chapter
of the Year



Chapter Vice-President Landon Blake and
CLSA President Roland VanDeValk at the
2014 CLSA/NALS Conference



2013 Newsletter
of the Year

Central Valley Chapter is Awarded at 2014 Conference

This year the Central Valley Chapter wins big at the 2014 CLSA/NALS Conference in San Diego

If you have a historic or interesting photo you would like to see in a future edition of The Prism, please submit to:
editor@californiacentralvalleysurveyors.org

Classifieds

O'Dell Engineering is looking for Party Chief (Modesto and Pleasanton Offices)

The successful applicant will work under the direction of the survey manager leading a 2 person survey crew and work independently as a single man survey crew using GPS or robotic total stations. Party Chiefs are supplied a company truck and are required to maintain a clean driving record. Our projects are located throughout the Central Valley and Bay Area. Your assignments will include construction staking, boundary surveying, and topographic surveying. Projects include very large scale municipal projects (California High Speed Rail), large scale master planned land development projects, 3D laser scanning, high precision monitoring, on-call surveying for municipalities, and small residential and commercial developments. This position may be staffed from the Modesto or Pleasanton Office.

For more information go to www.odellengineering.com/employment.html

City of San Jose is looking for Survey Field Supervisor

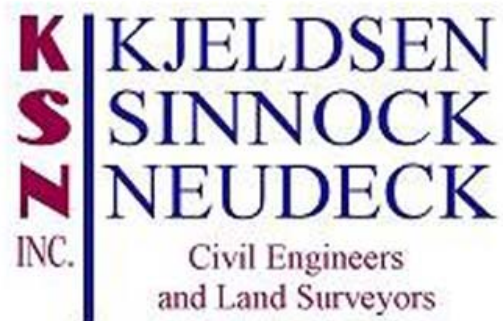
The City's Public Works Department is seeking an individual whose values align with the values of the City's employees.

As part of Engineering Services Division, the Survey Section of the Public Works Department of the City of San Jose is responsible for delivering land surveying services on a variety of City projects including street widening/improvements, storm & sanitary facilities. The land surveying

The Survey Section is currently recruiting to fill a Survey Field Supervisor position. The position requires a working knowledge of all the phases of surveying and is responsible for the overall performance of the field/office crew.

To view the full announcement and apply online go to www.sanjoseca.gov/cityjobs

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