

SURVEY NOTES

Volume 16 Issue 07

July 2010

CALIFORNIA LAND SURVEYORS ASSOCIATION, SAN DIEGO CHAPTER

5519 Clairemont Mesa Blvd, Mail Box 261, San Diego, California 92117

www.sd-surveyors.org

Chapter Meeting

San Diego Padres vs. Los Angeles Dodgers

Wednesday, July 28th 2010

Our local chapter would like to invite everyone and their guests out for an evening at Petco Park downtown as the **Padres** take on the **Los Angeles Dodgers**. James Yaccino has once again graciously offered to provide his famous Texas style BBQ prior to the game. We will be tailgating at the Petco tailgate lot. We would like to get a commitment from those of you who would like to attend this competitive game against our rival, the **Dodgers**. We have already purchased tickets for this game and must fill all the seats. First come, first serve. Please be sure to sign up immediately so you do not miss out on this fantastic pastime game.

BBQ LOCATION GAME LOCATION

Petco Tailgate Lot Petco Park

B2 – Tailgate Park Surface Lot 100 Park Blvd

Between 12th Avenue & 14th Street – and – San Diego, CA. 92101

K Street and Imperial 7:05 start of game

San Diego, CA. 92101

5:30 – 6:30 pm (BBQ & Beverage)

Please RSVP through our CLSA San Diego Chapter website no later than
Monday, July 26th

The website address is <http://www.sd-surveyors.org>.

Please click on the “Dinner Reservations” button and fill in all of your reservation information there, and note “Padres Game”.

**If paying with a credit card, please remember to bring in
a copy of your receipt for check in.**

Those who do not make a reservation cannot be guaranteed a ticket or meal.

UPDATE: 48 tickets sold and Chapter game tickets may be sold out.

Check with Justin

BBQ AND TICKET TO GAME (per person) - \$24
Ticket to Game only (per person) - \$17
BBQ Only (per person) - \$13

****Tickets will be distributed at the tailgate lot****

May 2010 CLSA Board Meeting Minutes

May 19, 2010

Meeting held at the Boll Weevil, 9330 Claremont Mesa Blvd. San Diego.

Board and committee members present:

*Casey Lynch, President
Justin Pallamary, Vice President
Blake Torgersen, Treasurer
Paul Goebel, Secretary
Anne Hoppe
Dave Ambler
Dave Viera
Tony Nothdurft*

Casey opened the meeting at 5:14pm

Presidents Report – Casey

- The minutes from last month's board meeting were not available for approval, so a vote will be held by email.
- NSPS cut their lobby day. They will ask each CLSA and NSPS chapter to take on the job. Casey proposes to ask legislative committee and interested volunteers to take this duty.
- Copyright laws seminar will be held soon. This will be announced in a mass email.
- County recording fees are increasing significantly. A fee schedule was circulated.

Vice President's Report – Justin

- June Meeting: Chevy's in Del Mar. Representative from Lawyer's Title company.
- July: Padres/Dodgers on the 28th is a likely meeting time.
- August: GIS meeting. Drew Decker
- Sept: NGS Cadastral Surveyor representative, Don Bueller.
- Oct - Joint meeting with Orange County Chapter. Maybe at Holiday inn.

Treasurer's Report – Blake

- We have added \$6000.00 to CD1 and renewed to a 2 year rate.
- There was discussion about what it would take to make the scholarship fund sustainable.
- General Fund: \$3,333.45, Education Fund: \$7985.09, CD's #1 – \$22784.80 #2 -\$33202.53

Secretary's Report – Paul

- No Report

Education Committee –

- No report
- Paul Goebel will draft letter to Jamie Taynor for his donation education committee.
- Discussion about appreciation by Board for work by Andy Karydes at Teen Expo.

Ad Hoc Committee-Blake

- No report

Annual Golf Tournament – Justin

- A meeting will be held soon on May 28th to finalize the date and other details.
- President thanks coordinators, contributors, and instructors for work at review course.

Legislative Committee – Anne

- July 10th is next meeting
- CLSA is supporting new legislation regarding SB-972

Membership Committee – Blake/Tony

- 98 members total. Enough for 5 state reps if they are confirmed state members. We should try to bring numbers up to 106 to maintain 6 state reps.

Bylaws –Dave V., Blake

- Andy had recommendation for guidelines: Use word applicant instead of nominee. Use word will instead of may. MOTION to accept changes made. PASSED.

JPPC Report – Casey on behalf of committee

- No new cases.
- Mike Butcher is chair.
- Discussion about renaming the committee as PPC. Casey recommended that the committee remain a Joint committee, let it continue to run as it has.

Website Committee – Annie

- Website is updated. Ready to put the GIS part up. Each chapter can update a portion of the state website by logging in.

Chapter Reps – Anne, Dave A.

- Reps must make airline reservations 21 days in advance, and submit expenses within 90 days.
- Casey wants to have a meeting next month with reps only.
- Safety manual will come out soon.
- Reports of advertising for unlicensed practice. Next conference will be in Las Vegas.

New Business

- None

Old/Unfinished Business

None.

Motion to adjourn at 6:15.

June 2010 CLSA General Meeting Minutes

June 17, 2010

Meeting held at Chevys, 2430 Via De La Valle, Del Mar.

Casey Lynch opened the meeting at 6:40pm and reviewed the executive meeting.

Casey introduced evening speakers John Kalapp, and Kristi Dunne.

John is a Vice President at Lawers Title Company. His sister, Kristi Dunn has worked in the past for the same company, and is experienced in matters concerning land titles. John and Kristi led a slide presentation covering the following topics:

- What problems are surveyors liable for and which problems are title companies liable for?
- What makes a deed legal in the eyes of title companies?
- What does a title company insure?
- How does Schedule B protect the surveyor?
- Do deeds have to be recorded?
- Differences between CLTA and ALTA
- Recent changes in the Title insurance industry.

Several questions were asked, and some discussion was presented concerning the source of vesting legal descriptions, the depth of research for different tasks, etc.

Following the presentation, raffle prizes were awarded and the meeting was adjourned.

Education

Advanced CEQA: An Update of the Regulatory and Legal Aspects of the California Environmental Quality Act San Diego July 9.
Current Issues in Development Impact Fees teleconf July 15. **Public Contracts and Procurement** Santa Ana July 16. **Public Construction Law and Claims Avoidance Strategies** July 21 Pasadena. **Title Examination and Title Insurance** Sacramento July 22. **Introduction to California Subdivision Law** teleconf July 27. **Land Abandonment and Vacation Fundamentals** teleconf Aug 11. **Current Issues in Real Estate Title and Title Insurance** teleconf Aug 19. **Land Banking, Off-Balance-Sheet Financing and Joint Ventures in Residential Development** teleconf Aug 25. **Webinars: Regulations Zoning Variances: Nonconforming Uses and Structures. Infill Development Fundamentals. Air Rights in Development: Current Trends and Legal Concerns. FEMA's Critical Flood Plain Regulation. Construction Contract Bid Errors. Construction Joint Ventures: Benefits and Pitfalls. Contractor's Dilemma of Dealing With Bad Plans and Specs. Pros and Cons of Cost-Plus vs. Fixed Price Contracts. The Construction Bidding Process. Understanding the Federal Construction Bidding Process. Design Professionals' Exposure for Design Errors and Omissions. Liability Issues for Design Professionals. ALTA Policy, Endorsements and Transaction Strategies with Title Insurance. Current Issues in Real Estate Title and Title Insurance. A Primer on Right-of-Way. Infill Development Fundamentals.** Discounts for multiple registrations. www.lorman.com (866) 352-9539.

ESRI Conference July 12-16 San Diego. <http://www.esri.com/events/uc/>

NEW Leica Viva Work Flow Seminar July 14. Contact Cori Vernam coriv@servco1.com or 800-938-0606.

AZ/CA Easements: Rights of Way and Other Encumbrances San Diego Sept 10, Phoenix Sept 9. **CA Deeds, Descriptions and the Law** featuring Walter Robillard Oct. 14 Burbank, Oct 15 Anaheim <http://www.pesilaw.com/search/search.asp>

Trimble SurveySense webinars www.trimble.com/surveysense

Autodesk webinars: Part 1: 3D Laser Scanning Technology Overview. Part 2: Road & Highway Corridor Study. Part 3: Improving Road & Highway Design Workflows http://offers.autodesk.com/10/171025/email/may_fup.php

Basics In 3D Laser Scanning webinar . Sponsored by Professional Surveyors Magazine.
http://www.faro.com/site/resources/details/752?utm_source=Professional+Surveyor+Magazine&utm_campaign=7ae5c60c1b-FARO_June_9_E_blast_final6_7_2010&utm_medium=email

Cuyamaca College - Cuyamaca College offers an Associate of Science in Surveying that includes courses in Plane Surveying and Advanced Surveying, using equipment used in the field today, Survey Drafting Technology, and Boundary Control and Legal Principles. Other requirements for the degree include Engineering Graphics, Trigonometry, Introductory Physics, and courses to fulfill general education. Instructors are all practicing and licensed professionals. For additional information please contact Dr. Cyrus Saghafi at cyrus.saghafi@gcccd.edu or 619-660-4243..

College of the Canyons - Associate in Science Degree and Certificate of Achievement: Land Surveying. Contact www.canyons.edu or 661-362-3300.

Geospatial Analysis and Technology – Seminars, courses and software training. www.UCRExtension.net/geo 951-827-4105.

CSU Fresno Geomatics Engineering Dept. Contact www.csufresno.edu/geomatics/ for program and on-line courses.

CSU Pomona Surveying Program http://www.csupomona.edu/%7Ece_surv/surveng/index.html

Santiago Canyon College Surveying and Mapping Program Associate degree and LSIT review certificate.
<http://www.sccollege.edu/Departments/CareerEd/Survey/Pages/SurveyDegreePrograms.aspx>

Rio Hondo College Surveying Mapping & Drawing Certificate of Achievement. GIS program. <http://www.riohondo.edu/>

GIS Certification – thru URISA <http://www.gisci.org/>

CLSA San Diego Survey Student Stipends

The Stipend program's goals are to: provide funding for local students taking college level survey related classes. They will receive \$100 for an A, \$75 for a B, \$50 for a C. It will be limited to one survey class per student per semester. The Class must have been completed within the last 6 months. Applicants must be current members of the San Diego Chapter of CLSA. Licensed Land Surveyors are ineligible. All applications are subject to approval by the executive board. Applicants need to mail in a copy of their grade (of a surveying class) to: CLSA San Diego, 5519 Clairemont Mesa Blvd. Mail Box 261, San Diego, California 92117.

California Land Surveyors Association CLSA Education Foundation

C.L.S.A.
526 South E Street
Santa Rosa, CA 95404

Telephone: (707)578-6016 FAX: (707)578-4406

The Scholarship application is available at <http://www.californiasurveyors.org/files/scholarsh.html>

GIS News

GIS Questionnaire

The GIS committee has prepared a web based questionnaire to gauge the level of interest chapter members have in GIS, what GIS software resources we have and our database development experience. This information will help us develop a plan to put GIS in the hands of chapter members. This questionnaire will also help determine the feasibility of chapter GIS seminars.

Please take a moment and participate in this short questionnaire within the next two weeks. The survey will close on 7/17/2010.
<http://www.surveymonkey.com/s/SC5Q3P9>

ESRI Surveying and Engineering Summit, July 10-13, San Diego Convention Center

4 Days, Saturday, Sunday, Monday and Tuesday:

Saturday - Plenary focused on GIS technology for Surveyors and Engineers, Keynote speakers, alternative uses of GIS, facilities management, Surveying and Engineering Expo ...<http://www.esri.com/events/survey/agenda/plenary.html>

Sunday - Users giving presentations such as cadd integration with GIS, high accuracy GIS, lidar, the use of imagery, the use on online data, a CLSA sponsored discussion panel, all areas of GIS where surveyors can gain knowledge from our peers, Surveying and Engineering GIS Social...

Monday - the plenary for the larger user conference held during the weekday, to see what is happening with ESRI GIS, Map Gallery opening...

Tuesday - focus sessions for surveyors and engineers, plus focus sessions for all of GIS, exhibit hall.

Agenda at a glance - <http://www.esri.com/events/survey/agenda/index.html>

CLSA members can receive a 30% discount on the \$325 Summit fee. You can register online for the ESRI User Conference, but processing is now closed. All registrations received after June 19 will be processed on-site(Bring a copy of your registration). If you plan to take advantage of the 30% discount, please enter your CLSA membership number in the Notes section of the on-line registration.

<http://www.esri.com/events/survey/registration/index.html>

Agenda search for the Surveys Summit (Saturday, Sunday and Monday) -

http://events.esri.com/uc/2010/infoweb/OnlineAgenda/index.cfm?fa=ofg_search_form&ConfLanding=SegSummit

Agenda search for the regular User Conference (choose Tuesday) -

http://events.esri.com/uc/2010/infoweb/OnlineAgenda/index.cfm?fa=ofg_search_form#

Thank you,
The GIS Committee

- *Editor's note – thanks to Karen Koklich, Chapter GIS Committee Chair, for starting the first GIS News column*



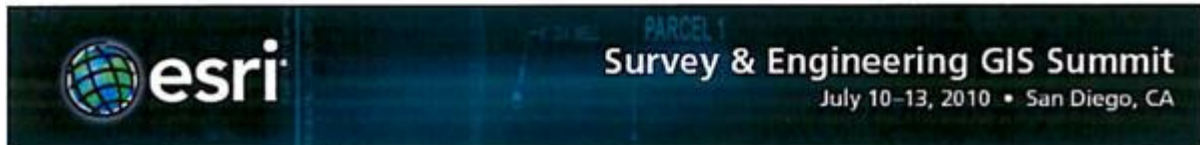
Exclusive Member Discount - 30% Discount on ESRI Conference

The [ESRI Survey & Engineering GIS Summit](#) will help you expand your business by integrating GIS technology into your surveying work flow. Join other surveyors, engineers, and GIS technology users July 10-13, 2010, at the San Diego Convention Center in San Diego, California, and take advantage of the Plenary Session, workshops, exhibits, and hands-on learning labs.

Be sure to stop by the CLSA booth! As a bonus, CLSA members will be participating in the Land Surveying & GIS panel discussion. Take part as an audience member and give CLSA and land surveyors a greater voice.

To receive your 30 percent CLSA discount, type your CLSA Member Number in the notes field when you [register for the summit](#).

We hope to see you in San Diego!





**CLSA 2010 Golf Scholarship Drive
Coming October to a Golf Course Near You!**

**Please Volunteer
or
Make A Donation
This Year!**

Announcements

The Need to Bring Datums In Harmony With The Current Tidal Epoch

- from Mike Pallamary:

I am working with the San Diego Regional Standards Committee on revisions to the M-12 drawing, the local tidal datum stick. As is readily evident, one of the obvious problems is the erroneous reference to the 1923 datum. This is a typo as it should read 1929. As to my more technical concerns, as many of you may know, a proper tidal datum should be based upon an 18.6 year neap high tide epoch. The existing Regional Standard Drawing M-12 is based upon a study and report dated 1955 (See the attached). Since then a lot has happened. It is possible these measurements go back to the 1930's as I have seen considerable evidence that this is the case. In any event, the feds have a more recent study and as can be seen, these measurements indicate a rise in sea water levels as well as more accurate elevations. For information regarding the committee, see: <http://www.regional-stds.com/>

To examine the M (Miscellaneous) drawings, see: <http://www.regional-stds.com/home/book/drawings/section-m>

Since the issuance of the current M-12 datum, the federal government through NOAA has published three local datum sticks in San Diego. As you go from south to north, the Mean High Water elevation increases. Accordingly, I am proposing the inclusion of three contemporary tidal sticks on the Regional Standard Drawings to reflect the values shown on the attached. As is evident, the datums from Imperial Beach to Oceanside would be more accurate representations of the coastal conditions as well as related elevations. I have seen several instances where surveyors have used the M-12 drawing, which is principally based on San Diego Bay elevations, for work in other areas. My recommendations would also bring the local datums in harmony with the current tidal epoch which is the product of neap high tide measurements from 1982 to 2001. As noted by the NOAA:

Datums - For marine applications, a base elevation used as a reference from which to reckon heights or depths. It is called a tidal datum when defined in terms of a certain phase of the tide. Tidal datums are local datums and should not be extended into areas that have differing hydrographic characteristics without substantiating measurements. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. The "Present Epoch" is from 1983-2001 and includes the latest datums available. The "Superseded Epoch" is from 1960-1978 and has been replaced by the "Present" datums, or was not replaced due to insufficient data.

For more information go to: <http://tidesandcurrents.noaa.gov/products.html>

I would also note that as the Superseded Epoch was from 1960 to 1978, the M-12 drawing precedes that. In short it is very outdated and obsolete. As an added note, my ongoing concern involves a blanket reliance on the M-12 drawing across the county as well as inconsistencies between the elevations from Mission Bay to San Diego Bay to the North County shoreline. As a regional benefit, it would seem advantageous for the County to be consistent with the federal datum standards. In the course of my research, I am finding instances where surveyors and engineers are utilizing old (pre-1955) information that is inconsistent with current datums. Combined with the rise in sea levels, this is becoming a noticeable problem. It gets even more confusing with the difference between 1929 and 1988 datums. For better or worse, rising sea levels are a reality and as Surveyors, we are at the forefront of measuring these impacts. Moreover, if the mean high water line has risen by a half a foot as seems to be the case here (relative to the M-12 datum stick), the location of associated boundary lines will be affected. I am aware of many Surveyors improperly using the M-12 elevations for boundary line determination.

According to NOAA, from the previous 1960 epoch to the 1983-2001, the water level has risen 0.20 feet. When one recognizes that the M-12 datum stick is based on 1955 information and could be even older and that the baseline for the current epoch is nearly 30 years old, it is conceivable that water levels have risen 3 to 4 tenths of a foot as compared to the current baseline datum. I think this is significant and warrants a consideration.

The following is from NOAA and it does a good job of discussing a good part of my concerns. NOAA is predicting a continued upward trend in water levels in Southern California and across the state.

What is Sea Level?

There is an important distinction between the global sea level trend and relative sea level trends (based on local sea level measurements), which must be understood in order to interpret changes to a coastline or particular location, and to properly apply the information.

Just as the surface of the Earth is not flat, the surface of the oceans is also not flat, and this sea surface is not changing at the same rate globally. For instance, it is known that the absolute water level height is higher along the West Coast of the United States than the East Coast. However, publications often refer to **Global Sea Level**, or the average height of all the Earth's oceans. "Global Sea Level Rise" refers to the increase currently observed in the average **Global Sea Level Trend**, which is primarily attributed to changes in ocean volume due to two factors: ice melt and thermal expansion. Melting of glaciers and continental ice masses, such as the Greenland ice sheet, which are linked to changes in atmospheric temperature, can contribute significant amounts of freshwater input to the Earth's oceans. Additionally, a steady increase in global atmospheric temperature creates an expansion of saline sea water (i.e., salt water) molecules (called thermal expansion), thereby increasing ocean volume. The Intergovernmental Panel on Climate Change (IPCC) Report estimates that the global sea level rise was approximately 1.7-1.8 millimeters per year (mm/yr) over the past century

(IPCC, 2007), based on tide station measurements around the world, with projected increased trends in sea level in the 20th Century based on global climate models.

Tide stations measure **Local Sea Level**, which refers to the height of the water as measured along the coast relative to a specific point on land. Water level measurements at tide stations are referenced to stable vertical points (or bench marks) on the land and a known relationship is established. However, the measurements at any given tide station include both global sea level rise and vertical land motion, such as subsidence, glacial rebound, or large-scale tectonic motion. Because the heights of both the land and the water are changing, the land-water interface can vary spatially and temporally and must be defined over time. Depending on the rates of vertical land motion relative to changes in sea level, observed local sea level trends may differ greatly from the average rate of global sea level rise, and vary widely from one location to the next. For instance, in areas of the northern Gulf of Mexico where significant subsidence is occurring, relative sea level trends reflect an increase of greater than 10 mm/yr in some locations, while areas of southeastern Alaska reflect a decrease in relative sea level because the region is dominated by isostatic rebound, or regional uplift of the land caused by the retreat of the glaciers. **Relative Sea Level Trends** reflect changes in local sea level over time and are typically the most critical sea level trend for many coastal applications, including coastal mapping, marine boundary delineation, coastal zone management, coastal engineering, sustainable habitat restoration design, and the general public enjoying their favorite beach. This website focuses on relative sea level trends, computed from monthly averages of hourly water levels observed at specific tide stations, called monthly mean sea level.

The term **Mean Sea Level** (MSL) can also refer to a tidal datum, or frame of vertical reference defined by a specific phase of the tide. Tidal datums are locally-derived based on observations at a tide station, and are typically computed over a 19-year period, known as the National Tidal Datum Epoch (NTDE). The present 19-year reference period used by NOAA is the 1983-2001 NTDE. Tidal datums must be updated at least every 20-25 years due to global sea level rise. Some stations are more frequently updated due to high relative sea level trends. Tidal datums are the basis of marine boundaries, are used as a vertical reference plane in producing nautical charts, and provide important baseline information for observing changes in sea level over time. MSL as a tidal datum is computed as a mean of hourly water level heights observed over 19-years. Monthly means are generated in the datum calculation process, which are used to generate the relative local sea level trends observed here. [Click here for more information on tidal datums.](#)

Why does Sea Level change over time?

There are a number of factors that contribute to long and short-term variations in sea level. Short-term variations generally occur on a daily basis and include waves, tides, or specific flood events, such as those associated with a winter snow melt, or hurricane or other coastal storm. Long-term variations in sea level occur over various time scales, from monthly to several years, and may be repeatable cycles, gradual trends, or intermittent anomalies. Seasonal weather patterns, variations in the Earth's declination, changes in coastal and ocean circulation, anthropogenic influences (such as dredging), vertical land motion, and the El Niño Southern Oscillation are just a few of the many factors influencing changes in sea level over time. When estimating sea level trends, a minimum of 30 years of data are used in order to account for long-term sea level variations and reduce errors in computing sea level trends based on monthly mean sea level. Accounting for repeatable, predictable cycles, such as tidal, seasonal, and interannual variations allows computation of a more accurate long-term sea level trend.

What does Sea Level have to do with Climate?

Understanding trends in sea level, as well as the relationship between global and local sea level, provides critical information about the impacts of the Earth's climate on our oceans and atmosphere. Changes in sea level are directly linked to a number of atmospheric and oceanic processes. Changes in global temperatures, hydrologic cycles, coverage of glaciers and ice sheets, and storm frequency and intensity are examples of known effects of a changing climate, all of which are directly related to, and captured in, long-term sea level records. Sea levels provide an important key to understanding the impact of climate change, not just along our coasts, but around the world. By combining local rates of relative sea level change for a specific area based on observations with projections of global sea level rise (from IPCC, 2007), coastal managers and engineers can begin to analyze and plan for the impacts of sea level rise for long-range planning.

- See related attachments.

LinkedIn Land Surveying Category

It's been a month since the last comment, but still no indication of a proper category for us to choose. I suppose we need renew the effort. I will. Flood them.

JAC

Posted by J. Anthony Cavell

- also from Mike Pallamary - [We need help creating a group called LAND SURVEYING.](#) Please go to the link below and enter LAND SURVEYING. <http://www.linkedin.com/myprofile?industrySuggest>

Surveyors on youtube

Thought you may all enjoy this 1 minute video. <http://www.youtube.com/watch?v=d2fL9a5ykPo> - Justin

Fourth Of July Fireworks Are Now "Development" Under The Coastal Act

In from Mike Pallamary: For those of you who do development work, please be advised that the Courts have decided that Fourth of July fireworks are now "development" under the Coastal Act. As with similar decisions, this decision will eventually work its way into the practice of land surveying. See related attachments.

Phased Contracting

While browsing through the July 2010 issue of *American Surveyor*, I stumbled upon an article by our own Mike Pallamary. This issue of *American Surveyor* has several interesting and useful articles. The article written by Mike, "Phased Contracting" gives a valuable outline on creating a Surveying contract in several phases, so that as each phase uncovers new information, surprises and requirements, the client, adjoiners and yourself will be prepared to correctly evaluate the needs and go forward in an appropriate professional manner. Good reading for all of us, particularly for those doing business on their own, if even just an occasional project. But, I wonder if Mike or any other independent Surveyor in their right mind might say about starting your own business – "don't do it !!!"

- see the entire article at <http://www.amerisurv.com/content/view/7420/153/>



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Newsletter

Members are encouraged to receive email newsletters. Request an email copy only: 48wake@cox.net

Notices, original articles and other relevant information are encouraged for publication in the newsletter. There are many interesting and pertinent articles in other publications. Mention of articles is encouraged, but please provide your remarks, summary in a Word doc format and a link to the article, rather than copying the whole article. JPEG format sized to approx 300 KB or less is best for graphics. Large PDF files may have to be reduced in byte size. Newsletter is distributed by the first Wed of the month. Send items to Allan Wake 48wake@cox.net by the last Saturday of the month.

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*** New Lower Advertising Rates *** **Advertising policy approved by the Board:**

The **new lower rates** are: 1) full page one time in newsletter \$50.00. One year paid in advance \$450.00. 2.) ½ page one time in newsletter \$35.00. One year paid in advance \$325.00. 3) Business card size ad one year in newsletter \$50.00. 4) Employment offers by a member free for 1 month, extended if needed. Contact Newsletter Editor Allan K. Wake 48wake@cox.net for newsletter advertising. 5) Web-site banner \$100.00. Other Web-site advertising charges to be determined. For web-site advertising contact Web-site Coordinator Anne Hoppe, ahoppe@sandiego.gov

Thanks to the advertisers Lewis & Lewis, Prism, Allen Instruments, Photo Geodetic, Towill, Shancad, Servco, Altus, Reese Water & Land Surveying for supporting our Chapter !



CALIFORNIA LAND SURVEYORS ASSOCIATION SAN DIEGO CHAPTER

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