

# SURVEY NOTES

Volume 17 Issue 7

July 2011

CALIFORNIA LAND SURVEYORS ASSOCIATION, SAN DIEGO CHAPTER  
5519 Clairemont Mesa Blvd, Mail Box 261, San Diego, California 92117  
[www.sd-surveyors.org](http://www.sd-surveyors.org)

## San Diego Padres vs. Arizona Diamondbacks Wednesday, July 27<sup>th</sup> 2011



This month, the San Diego Chapter will host our annual Padres Game & Barbecue event. Please join us at Petco Park as the Padres take on the D'Backs. James Yaccino will once again serve his famous Texas style BBQ prior to the game. Beverages will be provided.

**Tailgate Party & BBQ – 5:00 - 6:30 pm**  
**Game (Padres vs. D'Backs) – 7:05 pm start time**

Tickets are limited, on a first-come first-serve basis, so be sure to sign up immediately. We will be sitting in Section 131 (Right Field Lower Reserved). Entrance and exit to the Tailgate Lot is on 13th Street at K Street or Imperial Avenue between 12th Ave and 14th Street. Attendees will be responsible for their own parking fees (\$15 per vehicle at the tailgate lot).

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**BBQ & Game – \$30**  
**Game only – \$15**  
**BBQ only – \$15**

**\*\*Game tickets will be distributed at the tailgate lot\*\***

**Please RSVP on the Chapter website: [www.sd-surveyors.org](http://www.sd-surveyors.org) or by email to [vicepresident@sd-surveyors.org](mailto:vicepresident@sd-surveyors.org), no later than Friday, July 22<sup>nd</sup>.**

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



**FOR IMMEDIATE RELEASE:** July 1, 2011

**CONTACT:** Prism Public Affairs

Dale Leibach: 202-207-3630 or [dleibach@prismpublicaffairs.com](mailto:dleibach@prismpublicaffairs.com)

July 1, 2011

## LightSquared's "Recommendation" Document: A Review

On June 30, 2011, the Federal Communications Commission (FCC)-mandated Technical Working Group filed a 1,000-plus page report analyzing interference from LightSquared's proposed deployment plans in the Mobile Satellite Service (MSS) band adjacent to the Global Positioning System (GPS).

The report was based on LightSquared's February 2011, description of its planned three phases for deployment: Phase 0, Phase 1 and Phase 2. All three phases identified by LightSquared for study used a portion of the MSS band directly adjacent to GPS, 1545.2-1555.2 MHz (the "Upper MSS band"). The working group test results showed that use of this portion of the MSS band caused overwhelming interference to every category of the 500 million GPS receivers in use in the United States, from those used by airplanes, police vehicles and ambulances to everyday consumer cell phones and personal navigational devices.

Up to the point of the June 30 report filing, LightSquared had for months repeatedly said that its proposed operations would not interfere with GPS. Faced with the report's overwhelming evidence of massive interference – and no doubt in order to preempt these highly negative results -- LightSquared simultaneously released a 37 page "Recommendation" document (RD) that it developed totally outside of the Technical Working Group established to collaboratively study the problem.

In that document, LightSquared proposed an entirely new deployment scenario, not included in the initial scope of the working group analysis, which would not use the Upper MSS band at all, and a series of mitigation measures – many of which were never disclosed or discussed during the four month working group study process. Further, the document tries to blame the "commercial GPS industry" for any interference caused by its operations, and also claims, without citation to the working group study or any other supporting data, that its proposal will solve interference for 99 percent of GPS receivers.

The utter failure of LightSquared's initial deployment plans to pass interference tests raises fundamental questions about the representations LightSquared made to the FCC prior to its January 2011 decision that convinced the FCC to grant the waiver and convene the interference study

To view the entire 9 page article please visit [www.saveourgps.org](http://www.saveourgps.org) and click on the News tab.

*The above portion was re-published with the expressed permission of the author.*

**EXECUTIVE BOARD MEETING**

June 15, 2011

Meeting held at Best Western Seven Seas – Mission Valley

**Board Members Present:***Blake Torgersen, Vice President**Paul Goebel, Treasurer**Tony Nothdurft, Secretary**Casey Lynch, Immediate Past President**Anne Hoppe, Representative**Andy Karydes, Representative**Dave Ambler, Representative***Other Committee Members Present:***John Butcher**Jack Gechter**Karen Koklich**Mike Hart*

Blake Torgersen opened the meeting at 5:20. The minutes from the May meeting were presented for approval. A MOTION was made to approve the minutes. The motion was SECONDED. Motion PASSED.

**Presidents Report – Justin**

- Not in attendance – Conveyed that most agenda items for president would be discussed in committee reports.
- An appreciation for Guy Harris is planned for his development of our website. (Hopefully attending in July).

**Vice Presidents Report – Blake**

- Today's meeting, Mike Hart "2009 BLM Manual of Surveying Instructions".
- July's meeting, "Padres Baseball Game" BBQ and Game vs. Diamondbacks on July 27<sup>th</sup>.
- A **Motion** was made to use James Yacino and adjust the cost of admission to attain a marginal profit based on 50 tickets. **Motion Passed.**
- August's meeting, Mike Pallamary – "The Curt Brown Chronicles".
- September's meeting. Joint with Orange County at Sarduccis "State President Elect" Chapter officers election.
- October's meeting, Marti Ikehara "State of NGS".

**Treasurer's Report – Paul**

- General Fund \$1421.93, Education Fund \$9894.83, Local Education Fund \$1374.50
- Guy's Website service invoice was approved for payment.

**Secretary's Report – Tony**

- Quarterly Report due to State June 24.

**Education Committee – David Johnson****LS Review Class Subcommittee – Jack Gechter**

- Sign ups for next year already coming in but no way to pay. Will correct database to direct them to pay next year when details are ironed out.
- Certificates of completion will be distributed next year.

**Workshop Committee**

- No report

**Education Foundation \ Scholarship Subcommittee – Dave Ambler**

- No report

**Community College Report – John Butcher**

- Drafting class starting August 23<sup>rd</sup> Tuesdays and Thursdays 7:00 to 10:00pm – Cadd 127 Cuyamaca College

**Ad Hoc Committee – Junior College Programs– David Johnson**

- No Report

**Annual Golf Tournament Subcommittee – David Johnson**

- Tentative schedule Friday September 23, 2011 at Meadowlake, \$60
- Looking for sponsors and donations.
- Progressive pricing suggested early registration discount etc.
- Looking for volunteers

**EXECUTIVE BOARD MEETING** continued**Nominating Committee – Pat McMichael, Andy Karydes**

- Nominations due by August meeting. Need to research terms of Chapter Reps.

**GIS Committee – Karen Koklich, Jimmy Elmore**

- Survey Summit conference coming up San Diego in July.
- Study Group looking for room to have Saturday class, curriculum is set up and ready to start. Libraries, Caltrans and churches not available. John Butcher offered to see if Cuyamaca College would host group.

**Private Records Steering Committee – Sean Englert, Karen Koklich**

- Letter sent to County Board of Supervisors. Sean working with Terry Connors to create a solution. Would like SD County to follow lead of Orange County. Curt Brown notes still sitting at Rick Engineering.

**Ad-Hoc Committee (Borpels) Approximate Corner Letter – Casey /Sean**

- Sean reports Joint letter with Orange County is pending.

**Membership Committee – Blake Torgersen, Dave Ambler, Dave Viera**

- 80 Current State and Chapter members.
- 40 State Members have not paid Chapter dues according to spreadsheets, will continue to contact these members.

**Legislative Committee – Anne Hoppe**

- Next meeting is June 25, report to follow.

**Bylaws Committee – Sean Englert, Dave Viera, Blake Torgersen**

- No Report

**Joint Professional Practices Committee – Mike Butcher**

- Committee reviewed two new cases.
- Committee discussed potential legislation regarding setting of monuments by a specified date as called out on the title sheet of subdivision maps. What to do when that date has passed due to slow down in development.
- Committee meets the second Thursday of the month at the County Building on Ruffin Road and Clairemont Mesa Blvd, in Conference room #2. Meetings are open, however please RSVP to [m butcher@sboinc.com](mailto:m butcher@sboinc.com) if you plan to attend.

**Website Committee – Jack Gechter**

- Updates are coming in. Looking for input on what the board may want on the website.
- Needs initial heads up for upcoming events even without details just to get members thinking of
- Discussed ideas regarding taping of guest speakers, Control Record of Survey tiffs, Private survey records etc. and putting it in the member's only section to create worth in being a member.

**Datum Committee- Paul Goebel, Mike Pallamary**

- No Report.

**Newsletter Committee – Casey Lynch**

- No Report.

**Chapter Representatives Report –**

- Next meeting July 30<sup>th</sup>

**New Business**

- Mike Hart asked us to look into hosting the Railroad Retracement workshop in San Diego. He felt it was the most interesting workshop he has been to in a while.

The meeting was adjourned at 6:28 pm



**GENERAL MEETING**June 15, 2011

Meeting held at Best Western Seven Seas, Mission Valley, SD

Blake Torgersen opened the meeting at 7:15 pm and welcomed the members, presented a review of the Chapter Board meeting then introduce the evening speaker:

**Mike Hart, PLS, CFedS**  
**2009 BLM Manual of Surveying Instructions**

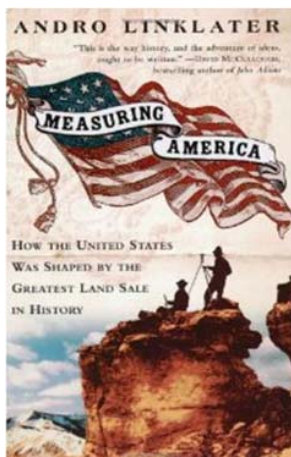
**Mike Hart is a CA PLS as well as a Certified Federal Surveyor. He currently serves as a member of the CFedS Advisory Panel and was appointed to that position in 2008 by Don Buhler, Chief Cadastral Surveyor, Bureau of Land Management. Mike has over 35 years of surveying experience with a focus on retracing the Public Land Survey System. He is a member of the LS Exam Review Series team and conducts the sessions dealing with the PLSS.**

Discussed differences in manuals published over the years along with the size nicknames of the previous manuals such as the 1973 manual is called the Blue Book due to its blue cover and now the 2009 manual is called the Big Book due to its comparable size. Some of the differences and additions found in the new manual were discussed as follows:

- New tables, color diagrams and pictures have been added to clarify/specify
- Definition of standard monuments currently used by BLM.
- Preponderance of evidence versus now Substantial evidence. Being a less stringent standard due to a general lack of available original evidence.
- Handling of witness corners set on line clearly defined as the angle point.
- Chapters 5, 6, 7 & 8 have the most differences and or additional information compared to the 1973 manual. A must read for any current BLM surveys.
- Chapter 8 is a large chapter that now deals with riparian boundaries.

Some weight may now be given to coordinates as evidence if system/datum from which they are based is reproducible.

Following the presentation, raffle prizes were awarded.  
The meeting was adjourned at 9:25 PM.



## Book of the Month

### Measuring America: How the United States Was Shaped by the Greatest Land Sale in History

By Andro Linklater

Amazon Price: \$5.05

# LISP for Surveyors

## By Blake Torgersen, PLS

As part of my surveying education, I obtained an Associate of Applied Science degree (AAS) in Drafting Technology from Utah Valley State College (UVSC, now UVU), and an AAS in Surveying from Salt Lake Community College. I enrolled in an AutoLISP class while attending UVSC, despite the fact that I had already satisfied the computer programming requirement. My main reason for learning LISP was to create a program which would allow me to work with ascii point files in AutoCAD. I eventually achieved that goal, but I also ended up creating several other survey-related routines along the way. Many of the functions accomplished by these routines are better handled by commercial add-ons available now, but I still find some of them useful. I will share my favorites with you through this column.

This month I will share a simple program as an introduction to loading and running LISP routines, but instead of the usual "Hello World!" demonstration, this is something you can actually use. Suppose you want to retrieve some curve data from your drawing. If you use the AutoCAD "List" command, you'll get something like this:

```
radius  280.00  
start angle N 66d0'39" W  
end angle S 79d59'21" W  
length  166.16
```

The radius and length are there, but you have to calculate the delta angle, chord length, and chord bearing. This routine will calculate the data for you.

First, save the code below as a text file with the name "listcurve.lsp". It's easiest if the file is saved in a folder that has been added to your support file search path. Otherwise you'll need to type the full path in the next step. I usually keep all of my lisp routines in one folder, such as "My Documents\LISP". Next, enter the following on the AutoCAD command line:

```
(load "listcurve.lsp")
```

This loads the routine into AutoCAD, and only needs to be done once for each session. Now enter the following:

```
Listcurve
```

When prompted, select an arc in the drawing. For this routine, it must be a simple arc object, not a polyline arc. You should get something like this:

```
RADIUS: 280 LENGTH: 166.16 DELTA: 34d0'0"  
CHORD: 163.73 BEARING: S 6d59'21" W
```

## LSIP for Surveyors continued

The routine is looped, so you will again be prompted to select an arc, or you can press ENTER to end the command.

```
(DEFUN C:LISTCURVE ()
  (SETQ CSEL (ENTSEL "\nSELECT AN ARC: "))
  (WHILE CSEL
    (SETQ XYZ (CAR (CDR CSEL)))
    (SETQ CURVE (ENTGET (CAR CSEL)))
    (IF (/= "ARC" (CDR (ASSOC 0 CURVE)))
      (PRINC "\nSELECTED OBJECT IS NOT AN ARC")
      (PROGN
        (SETQ CTR (CDR (ASSOC 10 CURVE)))
        (SETQ RAD (CDR (ASSOC 40 CURVE)))
        (SETQ BEG (CDR (ASSOC 50 CURVE)))
        (SETQ END (CDR (ASSOC 51 CURVE)))
        (SETQ ANG (IF (> END BEG)
          (- END BEG) (+ END (- (* 2 pi) BEG))))
        (SETQ LEN (* RAD ANG))
        (SETQ ANG (ANGTOS ANG 1 4))
        (SETQ P1 (POLAR CTR BEG RAD))
        (SETQ P2 (POLAR CTR END RAD))
        (SETQ DST (DISTANCE P1 P2))
        (SETQ BRG (IF (< (DISTANCE P1 XYZ) (DISTANCE P2 XYZ))
          (ANGTOS (ANGLE P1 P2) 4 4)
          (ANGTOS (ANGLE P2 P1) 4 4)))
        (SETQ RAD (RTOS RAD 2 2))
        (SETQ LEN (RTOS LEN 2 2))
        (SETQ DST (RTOS DST))
        (SETQ INFO (STRCAT
          "\nRADIUS: " RAD " LENGTH: " LEN " DELTA: " ANG
          "\nCHORD: " DST " BEARING: " BRG))
        (PROMPT INFO)))
    (SETQ CSEL (ENTSEL "\nSELECT AN ARC: "))) (PRINC))
```

Questions, comments, and suggestions may be sent to [therealsurveyor@gmail.com](mailto:therealsurveyor@gmail.com).

## EDUCATIONAL OPPORTUNITIES

Pacific Land Seminars LS and LSIT review seminars, advanced survey topics and various Surveying seminars such as Land Description Fundamentals, Advanced Land Descriptions, Fundamentals Of The U.S.P.L.S.S., Advanced Problems In The U.S.P.L.S.S, Boundary Control, Boundary Law. Lot Line Adjustments / Lot Line Agreements, Legal Research, Water Boundaries, Easements And Reversions, Resolving Conflicts Of Evidence, The Surveyor In Court, A.L.T.A. Surveys, Subdivision Mapping, Entitlements, Condominium Plans, G.P.S. Surveys, Photogrammetry For The Surveyor, Basic Geodesy, State Plane Coordinate Systems, Error Theory & Measurement Analysis, Ethics And Standard Of care. Excellent source for Surveying publications. [WWW.PACIFICLAND.COM](http://WWW.PACIFICLAND.COM)  
tony@pacifiland.com <http://www.pcpresinc.com> 562/431-1656

Subdivision Map Act Class – A One Day Seminar: San Diego Nov.17 2011, Burbank Oct. 27 2011. Latest land use law news alerts. [www.landusenavigators.com](http://www.landusenavigators.com)

Webinars: [Introduction to California Subdivision Law](#). Current Issues in Development Impact Fees. A Primer on Land Surveys. A Primer on Right-of-Way. Conservation Easement Tax Incentives. Regulations Zoning Variances: Nonconforming Uses and Structures. [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](#). [Understanding the Development Approval Process](#). [Design Professionals' Exposure for Design Errors and Omissions](#). [Liability Issues for Design Professionals](#). [ALTA Policy, Endorsements and Transaction Strategies with Title Insurance](#). [Curing Title Exceptions](#). [Current Issues in Real Estate Title and Title Insurance](#). [Infill Development Fundamentals](#). Discounts for multiple registrations. [www.lorman.com](http://www.lorman.com) (866) 352-9539.

Trimble SurveySense webinars [www.trimble.com/surveysense](http://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](http://offers.autodesk.com/10/171025/email/may_fup.php)

Basics In 3D Laser Scanning <http://www.faro.com/site/resources/details/752> Applying 3D Laser Scanning To Bim (Building Information Modeling) <http://www.faro.com/site/resources/details/905>

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 Saghabi at [cyrus.saghabi@gcccd.edu](mailto:cyrus.saghabi@gcccd.edu) or 619-660-4243.

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

Geospatial Analysis and Technology – Seminars, courses and software training. [www.UCRExtension.net/geo](http://www.UCRExtension.net/geo) 951-827-4105.

CSU Fresno Geomatics Engineering Dept. Contact [www.csufresno.edu/geomatics/](http://www.csufresno.edu/geomatics/) for program and on-line courses.

CSU Pomona Surveying Program [http://www.csupomona.edu/%7Ece\\_surv/surveng/index.html](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/>

Sacramento City College <http://www.scc.losrios.edu/>  
GIS Certification – thru URISA <http://www.gisci.org/>




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#### What to Expect

- Workshops and sessions led by industry experts
- Opportunities to earn Continuing Education Units (CEUs)
- Networking with users of GPS, GIS, lidar, and other surveying technologies
- Discussions on standards, accuracy, and new business opportunities
- Torrey Pines Golf Tournament

The Survey Summit is designed for you to take away ideas and solutions that can be immediately implemented in your own business practices.

#### Questions?

[E-mail us](mailto:info@surveysummit.com) or call 909-793-2853, extension 1702.

## What Else...

### *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.

### Newsletter

Members can only receive newsletters via email.  
Request an email copy only:  
[clynch@burkett-wong.com](mailto:clynch@burkett-wong.com)

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. PDF or JPEG format sized to approx 300 KB or less is best for graphics. Large reference files may have to be forwarded separately. Newsletter is distributed by the first Wed of the month. Send items to Casey Lynch at [clynch@burkett-wong.com](mailto:clynch@burkett-wong.com) by the last Saturday of the month.

*Information in this newsletter is not necessarily endorsed by CLSA or CLSA San Diego.*

\* **New Lower Advertising Rates Ending April 2011** \*  
***Advertising policy approved by the Board:***

The **new rates** are: 1) full page one time in newsletter \$80.00. One year paid in advance \$650.00. 2.) ½ page one time in newsletter \$55.00. One year paid in advance \$400.00. 3) Business card size ad one year in newsletter \$80.00. 4) Employment offers by a member free for 1 month, extended if needed. 5) One time use of front page in newsletter \$50.00 in addition to ad cost.

Contact Newsletter Editor Casey Lynch [clynch@burkett-wong.com](mailto:clynch@burkett-wong.com) for newsletter advertising. 5) Web-site banner \$100.00. Other Web-site advertising charges to be determined. For web-site advertising contact Website Coordinator:

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## News from the State CLSA....

### NEW – CLSA AUCTION WEBSITE!

**Support**

- California Land Surveyors Association Education Foundation
- Surveying Education
- Help Generate Scholarships for Land Surveying Students

**Donate**

- Sell Your Items Through the CLSA Auction Site and 10% of Your Sale Will Be Donated to the Education Foundation

**Bid**

- Purchase Items Through the CLSA Auction Site to Help Generate Proceeds for the Education Foundation



Go to <http://auction.surveypath.org/index.php>  
or go to [www.californiasurveyors.org](http://www.californiasurveyors.org) and click on Education Foundation

## Coalition to Save Our GPS

Uniting to Protect GPS – A National Utility for More than 30 Years

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**GPS is a National Utility Which Millions of Americans Rely on Every Day**

[More Details](#) ▶

Help us to Protect the Future of GPS

 **Voice Your Concern**  
Contact Congress & the FCC

 **Join the Coalition**  
To Save Our GPS

 **What Others Are Saying**

*CLSA, along with other surveying associations and representatives of a wide variety of other industries, has joined the [Coalition to Save Our GPS](#). The Coalition was formed to resolve a serious threat to the reliability and viability of the Global Positioning System (GPS). To safeguard GPS, the Coalition seeks a number of remedies from the Federal Communications Commission (FCC), which recently granted a waiver to a company called LightSquared that allows them to repurpose the satellite spectrum immediately neighboring that of the GPS. LightSquared plans to transmit ground-based radio signals that would be one billion or more times more powerful as received on earth than GPS's low-powered satellite-based signals, potentially causing severe interference impacting millions of GPS receivers - including those used by the land surveying community.*

**CALIFORNIA LAND  
SURVEYORS ASSOCIATION  
SAN DIEGO CHAPTER**

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261, San Diego, California 92117  
www.sd-surveyors.org

**San Diego CLSA 2011 Golf Scholarship Drive**

**It's Closer Than You Think....**

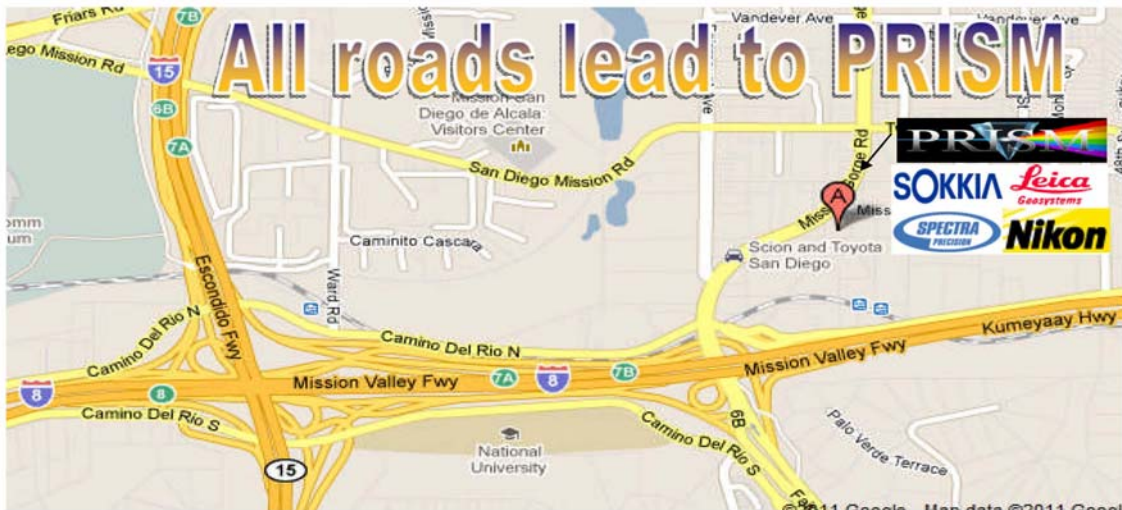


If you would like to sponsor, donate, volunteer, or participate in the 2011 Golf Scholarship Drive please contact David Paul Johnson, PLS at 760-310-5054



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