

SURVEY NOTES

Volume 9 Issue 3

March 2003

CALIFORNIA LAND SURVEYORS ASSOCIATION, SAN DIEGO CHAPTER

P.O. BOX 85152, MAIL BOX 261, SAN DIEGO, CALIFORNIA 92186-5152

sd-surveyors.org

Chapter Meeting

Wednesday, March 19, 2003

Guest Speaker

Jeff Hamilton, Trimble Navigation

Topic

Introduction to Network RTK

Jeff Hamilton is from Trimble Navigation and based from the corporate headquarters in Sunnyvale, California. Mr. Hamilton is responsible for Trimble's GPS Land Survey sales in California and Arizona, as well as infrastructure and GPS reference systems in western North America. Mr. Hamilton has been involved in GPS technology since the early 1990s, has presented dozens of papers on GPS and GPS applications, as well as published GPS technology papers and articles. Mr. Hamilton currently has GPS technology patent pending.

Real-time kinematic GPS for surveying and other applications has become widely accepted, practitioners to insure homogeneity of RTK results across large geographical areas. It is also important that RTK positioning operates as a utility. To do this GPS networks need to be deployed that insure network reliability through integrity monitoring, as well as use network GPS reference stations to aid in modeling atmospheric variables across these networks. This presentation discusses "classical RTK" and compares it to GPS reference networks and Trimble's Virtual Reference Station network RTK solution. The presentation also addresses the scalable nature of GPS reference systems and compares and contrasts various models of GPS reference system deployment.

Location

Chevys Fresh Mex
2730 Via de la Valle
Del Mar CA 92014
(858) 793-8893
6 p.m. Social/Networking
6:30 p.m. Dinner
7:30 p.m. Program
Business meeting to follow

Taco Dinner Buffet - \$20.00

*Price includes tax & tip
Chevy's World Famous Margaritas cash & carry*

Leave your name with Hunsaker & Associates receptionist Mary Swan. E-mail is preferred: mswan@hunsakersd.com or phone her at (858) 558-4500 no later than 11:00am Monday, March 17. Reservations are required to give Chevy's an estimate of volume of food to prepare. Those who do not make a reservation cannot be guaranteed a meal. Those who call in late, in accordance with the tradition established by Steve, will Willingly donate a bottle of wine or similar prize to the raffle.

GENERAL MEETING – February 19, 2003

The February meeting was held at the Holiday Inn, Stadium/Mission Valley. After dinner, Dave Ambler called the meeting to order, and introduced Greg Helmer, President of the California Spatial Reference Center (CSRC). Greg provided a brief history of the CSRC along with an overview of the proposed system. He reported on some of the program's uses and objectives including designation as California's legal spatial reference system. Greg solicited input from us as a group to discuss the problems we are having utilizing the system.

Greg also provided an update of the Orange County Real Time Network (OCRTN). He gave an overview of the system configuration, it's evolution, and some of its uses outside of surveying. These include machine guidance, intelligent vehicles, precision navigation, and emergency warning systems. Greg then opened the floor to questions.

Greg's presentation was very informative as usual. His enthusiasm is infectious, and reminds us all that we need to take an active role as leaders in utilizing this technology as we go into the future.

Dave Ambler presented Greg with the "coveted" CLSA coffee cup for his donation of time and effort to come speak with us.

President's Report

-Steve Martin took the floor and raffled off the many prizes that were generously provided by Lewis and Lewis, and SERVCO. The big prize was a hand held GPS that went to Jack Roth. Thanks go out to Lewis and Lewis and SERVCO for their generous contributions.

-Steve thanked Allan Wake for his continued effort creating the newsletter.

-Steve reported that the \$750 Dana Sequin Memorial scholarship went to David McMillan. The award was presented by Jas Arnold at the Fresno Conference, which was also attended by Steve, Lee Hennes, and DK Nasland.

-Steve noted that he would volunteer to staff a booth a Career Day at the Grossmont Center Mall on February 22, 2003. The request came from Molly Green. Dave Ambler, Don Woolley, and James Yaccino will also volunteer.

Vice-President's Report

Dave Ambler reviewed the list of future speakers for this year. The next general meeting will be March 19, 2003 with Jeff Hamilton, Trimble representative, presenting on RTK

Treasurer's Report

-Annie reported that there is \$6,442 in the general fund and \$1,482 in the Education fund.

-She also reported that there were 2 more applications for the scholarship money available to the local community colleges. That brings the total to date to 4.

Secretary's Report

-No report

JPPC Report

-No report

Education Committee

-No report

Chapter Representatives

-No report

Legislative Committee

-No report.

Bylaws Committee

-Dave Viera will review the chapter bylaw and compare to the State CLSA "Model " bylaw. He will look into revising the membership classification as it refers to "lifetime memberships

OLD BUSINESS

None

NEW BUSINESS

-Phil Giurbino reported on the upcoming fee increases to be implemented by the County for cost recovery. All land development fees are increasing.

-The cost for a one sheet ROS will increase from \$300 to \$375 and become effective May 5th of this year.

-Neil Prescott gave an impassioned plea for our organization to commit to supporting the local Community College surveying programs. The program at Palomar is in danger of being discontinued.

-There was much discussion regarding how much and how to distribute education funds for the upcoming Joint State Conference in Reno. A motion was proposed by Jack Roth and seconded to give \$250 for student assistance as well as provide \$250 for Buck Knives. The motion was approved.

-Dave Woolley, Orange County member, opened discussion regarding proposing legislation to include "bench marks" in the "monument preservation law. This would require contractors to be responsible for replacement of "bench marks" destroyed during construction. More discussion is required.

Meeting adjourned

Submitted by,
Don Woolley, PLS
Secretary 2003

EXECUTIVE BOARD MEETING

March 5, 2003

ATTENDING: Steve Martin, Dave Ambler, Anne Hoppe, Lonie Cyr, Jas Arnold, Dave Viera, Allan Wake, D.K. Nasland, Scott Hurst, Armand Marois, Don Woolley

President's Report

-Steve called the meeting to order at Giovanni's restaurant.

Vice - President's Report

-The next chapter meeting will be held on March 19, 2003 at the Chevy's, Del Mar. Jeff Hamilton, Trimble representative, will present on "RTK".

-Dean Palumbo, CLSA President Elect, will be the speaker in April. He has requested that we get some questions or topics of discussion to him ahead of time.

-An email request will be sent out.

-Jas Arnold has offered to be a presenter later on this year.

Treasurer's Report

-Annie reported that the General Fund has \$7,341 and the Education fund has \$1,346.

-The chapter has 129 paid members to date.

-Jas will reconcile applications with names of paid members.

Secretary's Report

-Reviewed minutes for last general meeting with corrections as noted.

Chapter Representatives

-Lonie Cyr and Jas Arnold will attend the next meeting in Sacramento, as alternates.

Education Committee

-The LS Review class just completed the fifth session, Statistics. There are 24 people signed up and attending the class.

JPPC Committee

The meetings are held on the 2nd Thursday's of odd months at 1:00 pm at the County Building. They last for approximately a half-hour and usually review one or two cases.

Legislative Committee

-No report

Old Business

-Steve presented Lonie Cyr with a plaque honoring her long service as a Chapter Representative.

-Steve reported on the Career Day event held at the Grossmont Center Mall, February 22. Dave Ambler, and Don also attended, along with, James Yaccino, who brought some of the newest technology to share with the community. There was a good mix of old and new equipment displayed for a well-rounded exhibit.

-Reviewed Armand's proposed guidelines to be sent to the Education Foundation to help manage the selection of the Curt Brown Scholarship recipient. Armand will make the recommended minor changes and put a draft in the April Newsletter for review then approval by the general membership.

- Discussed raffle prizes (Buck Knives) for conference. Steve is in contact with Jack Roth who "volunteered" at the last general meeting to follow up on acquiring buck knives.

-Anne noted that the last general meeting dinner and raffle netted an additional \$238. Thanks for the support from Lewis and Lewis and SERVCO.

-Discussion on how to get more support for local surveying classes at Palomar College. Jas suggested we investigate what it would take for 2 years of credit towards your LS with a 2-year degree.

New Business

- Steve brought up putting historical data on website. Steve will work with Dave Viera to build some sort of historical records of newsletters, etc. Allan suggested asking if anyone in the membership has kept all of the past newsletters, etc.

-Discussed reimbursement forms and procedures for state meeting expenses.

-Scott Hurst reminded us that Mike Butcher was due to be a new "Dad" anytime now.

-There was consensus that future meetings will be held in one of many available conference rooms.

Letter from Fresno State

Department of Geomatics Engineering
California State University, Fresno

Dr. James K. Crossfield
Dept. of Civil, Geomatics Engineering & Construction
Management
CSU, Fresno
Fresno, CA 93740-8030 Phone: (559) 278-4827

February 9, 2003

Dear Scholarship Supporter:

Thanks to you, the scholarship drive this year was one of our most successful! Your generosity helped us raise more than \$51,000 in scholarship money for the 42nd Annual Geomatics Engineering Conference. As Dr. Crossfield pointed out at the Awards Banquet Dinner, the surveying industry has generated more than \$500,000 in educational scholarships since the Land Surveying Program first started holding a conference in 1958.

On behalf of the Geomatics Engineering students, we thank you for your generosity and support.

Our educational endeavor is made much easier by the support of our industry. We are proud and excited to be taking our first

steps toward joining you as professionals. Thank you for your time, support and generosity.

Very Sincerely,
Peg Bostley & See Yang
Scholarship Personnel

CLSA San Diego Survey Student Stipends:

The Stipend program's goals are to: provide funding for local students working towards a degree in a surveying related field at a Junior College in San Diego County. 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.

Applicants need to mail in a copy of their grade (of a surveying class) and address to: CLSA San Diego, P.O. BOX 85152, MAIL BOX 261, SAN DIEGO, CALIFORNIA 92186-5152

CLSA Education Foundation

- see attached PDF file. For those not on the Email distro contact the Central Office: P.O. Box 9098 · Santa Rosa · California 95405 Telephone 707/578-6016 for Foundation scholarship information and applications.

SEMINARS/WORKSHOPS

CLSA SD LS Review continuing thru April 3. See enclosed schedule for this very important and highly recommended part of your LS exam preparation.

PACIFIC LAND SEMINARS 2002 L.S./L.S.I.T. Workshops L.S. Review will be held Feb. 7, 8 & 9 and March 14, 15 & 16 in Santa Ana and the L.S.I.T. Review will also be held March 14, 15 & 16 in Santa Ana. Call 949-642-0335 or visit their Web-site.

Cal Poly Pomona LS Review Course continuing on Saturdays thru April 6. See info at the Events & Calendar at www.csupomona.edu/~engineering/ or call Dr. Howard Turner at 909-869-2645. Course notes available on Web.

Leica GPS User Group

-The first meeting of the Leica GPS User Group will be held at 7:00 p.m. on Tuesday, March 25, 2003 at the office of Dudek & Associates located at 605 Third Street in Encinitas, CA 92024.

-James Yaccino, Geodesy Rep. for Servco in Costa Mesa, has arranged for Ellis Veatch II, PS to attend this meeting to help us get off to a good start. Ellis is Regional GPS Specialist for Leica and hails from Colorado (check out Ellis' web site at www.ellisv.com for great technical information). This will be a great opportunity to get help with your questions regarding the Leica GPS system and SKI-Pro software.

-The tentative agenda for the meeting is as follows:

1. Introductions
2. Discussion on technical support resources
3. Discussion on using reference station ID and time slicing to enhance productivity
4. Discussion on the benefits and logistics of building a real-time regional network
5. Q & A with Ellis Veatch (bar room style free for all)
6. Identification of future topics of interest
7. Determination of next meeting date and location

-Take special note: this User Group is being organized and conducted by Leica GPS end-users and is in no way directed by or affiliated with Leica or it's distributors. James and Servco have pledged their support in our efforts but are not taking an active role in the conduct of this group. Of course, the group will be looking for technical information and they will be participating as one of the many sources for that. Presentation

topics and speakers will be determined solely at the discretion of the group to reflect the needs of the participants. So, no sales pitches unless we ask - the goal is to provide a forum for exchange of information on the Leica GPS systems and software.

-If you currently are not a Leica GPS user but have an interest in learning more about GPS and the Leica systems in particular, attending this meeting would be a great way to get free information and gain a good insight into the workings of this powerful system and software.

-You will receive another email from me a few days prior to the meeting just as a reminder. If you plan on attending, please email me and let me know so that the meeting space can be set up to accommodate everyone attending.

-Mike Hart Associate Land Surveyor
Lintvedt, McColl & Associates
3737 Camino Del Rio South #200
San Diego, CA 92108 office 619.280.3100 x134
email: mike_hart@cox.net

Boundary Law in California - May 14 in San Diego. There's some good stuff here. Moderated by our own Mike Pallamary. Contact Mike at 858-454-4094 or mpallamary@pipeline.com or go to <http://www.nbi-sems.com/seminfo/nbi-moreinfo.asp?session-id=10938&userse>.

ACSM and Arizona LS Assoc Conference and Technology Exhibit March 29-April 1, 2003 at Phoenix, Arizona. <http://www.acsm.net/>

EMPLOYMENT

ProjectDesign Consultants Survey Analysts wanted at ProjectDesign Consultant's Temecula and San Diego offices. Experience in Survey mapping and boundary analysis is required. Must have good working knowledge of ACAD 14 and/or 2000. This position would include preparation of ALTA's, R.O.S.'s, Plats, and Legal Descriptions.

- also hiring a rod and chain person for Temecula office.

-Fax or e-mail resume to: ProjectDesign Consultants careers@projectdesign.com (619) 234-0349 FAX www.projectdesign.com An Equal Opportunity Employer

Walsh Engineering & Surveying Is looking for a qualified Survey Crew Chief with a broad range of experience in the Land Surveying Profession to join our team.

The right candidate would possess local knowledge of Boundary and Construction methods, ability to work and grow in a team environment, good communication skills, and a desire to expand their Surveying abilities.

Motivated individuals interested in this position can fax their resume to (619) 588-6477 or E-mail them to ken@walsh-engineering.com

MAYGroup, Inc. San Diego based progressive civil engineering firm, MAYGroup, Inc., has opportunities for qualified individuals for the following position:

LAND SURVEYOR: Calif. LS registration. Fax or e-mail resume: (858) 505-0441/ mail@maygroupinc.net

NOTICES

Land Surveyors Week

- Governor Gray Davis declares Land Surveyors Week as March 9-15, 2003. See attached PDF file.

City of San Diego 6000 series GPS survey monumentation points

-The City's 6000 series GPS points are presently listed in the County of San Diego and SanGIS Survey Monumentation databases. A recent review of how these points were established was conducted by City/County survey staff and it was determined that they are not suitable for use as Basis of Bearings stations on Subdivision or Parcel Maps.

-If your firm is planning to perform fieldwork for a map that will be filed with the City's Land Development Review Section, please contact the City's Development Services Department at 619-446-5290, or the City's Land Survey Section at 858-627-3225, to determine if the control stations you are planning to use are suitable for Basis of Bearing control.

County of San Diego Record of Survey Review Fee

-On March 5, 2003, the County of San Diego Department of Public Works will make recommendations during a public Hearing, to the Board of Supervisors to amend the County Ordinance relating to all Land Development Fees and Deposits, including the review of Records of Survey Maps. The review of private land development project costs for calendar year 2002 show some deposits and fees require an increase to fully recover staff costs of providing services. -Upon approval by the Board of Supervisors, the operative date of the new fee ordinance will be May 4, 2003. At that time the Record of Survey Review Fee will be increased from the current \$300 per map to \$375 per map and will be in effect for one year. A second year's fee schedule is currently being reviewed that could possible require an additional increase in approximately May 2004.

Thanks to Mike Hart for the following info:

-Riverside County Flood Control had 3 pieces of equipment stolen on Sept. 19, 2002 from a survey truck in a parking lot in Riverside.

1 Sokkia Set 3010 Total Station Ser. # 011333

1 Sokkia B2-C first order level Ser. #41833

1 Motorola HT100 Handie Talkie

-If anyone comes across this equipment please contact David Stone at 909.955.1235 or 909.645.0677.

From the CLSA Web-site:

-Stolen GPS Equipment - Huitt-Zollars (Irvine Office) had GPS equipment stolen on Sat. November 30, 2002 from a location along the Santa Ana River in the City of Orange:

1 Trimble 5700 receiver #0220294090

1 Trimble Zephyr antenna

1 Trimble "cowbell" battery

-If anyone comes across this equipment please contact John Duquette at 714-734-5100. Thank you

Newsletter

Articles are encouraged for publication in the newsletter. Send reports and articles to Allan Wake by the first Friday of the month. Please email to awake@sandiego.gov and at akw@cox.net. (Sometimes one or the other of the emails is

down}. How about some field stories like rattle snake encounters or memories about some old grizzly Chief you once worked for?

Members are encouraged to receive email newsletters in lieu of mailings. Mailings cost approx. one dollar per address for copying, sorting, labeling, stapling and mailing each time. **Because of new membership mailings have increased and you may be receiving a mailed copy.** Thanks for your attention to this.

To request an email newsletter only contact Jas Arnold at jarnold@rickeng.com.

-The advertising policy approved by the Board: 1) full page one time in newsletter \$150.00 charge. 2.) ½ page one time in newsletter \$100.00. 3) Business card size ad one year in newsletter \$150.00. 4) Employment offers by a member free for 3 months, extended if needed. 5) Web-site banner \$100.00. Other Web-site advertising charges to be determined.

Last Word

-The Mission Valley Holiday Inn where we have many Chapter meetings is an economical nice place to stay for business travelers. At the January meeting, there was a lone guy at the bar (probably in town for business, maybe looking for some quiet action), surrounded by 40 or so lively Surveyors in for the Happy Hour before the meeting. It cracked Armand up when Scott noted that the guy must have thought that the Holiday Inn Bar was a real happening place with such a large crowd, but when he looked around and noticed that it was mainly all guys in the bar, he must of wondered what kind of place this was, maybe one of those alternative type bars. Anyway, I don't know if anyone bought him a drink, but the lone businessman is probably still wondering about it.

-Also, Scott is known for his non-plussed demeanor in general, being the Southern gentleman that he is. At the State CLSA meeting in February he was nominated and elected to be a "Member at Large" to serve on the State Exec Committee. Scott noted that when it was asked if "there are any volunteers" for this he raised his hand thinking that they asked "do you want a beer?" Similarly, it was fitting to see that Jack Roth was "volunteered" at the last General meeting to get Buck knives for the CLSA conference. Thanks, Jack and Scott.

Schedule For Remaining LS Review Classes

March 13 - Public Lands - Vance Breshears

March 20 - GPS & Geodesy – Steve Martin

March 27 - Subdivision Map/LS Act – Lee Hennes/Anne Hoppe

April 3 - Legal Descriptions - V. Klassen

April 11 - NCEES 6 HOUR EXAM

April 12 – STATE 4 HOUR EXAM

LOCATION

RICK ENGINEERING COMPANY
5620 Friars Road .San Diego CA - 92110

Classes will be held from 6:15 to 8:45 p.m. There will be a registration fee of \$75 payable at the door the first night of class; proceeds cover expenses and fund

Education Committee community outreach programs and Scholarships.
Contact Don Woolley
dwoolley@rickengineering.com (619) 291-0707 Mobile
(619) 540-3291



CALIFORNIA LAND SURVEYORS ASSOCIATION

SAN DIEGO CHAPTER

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