

# ***SURVEY NOTES***

Volume 11 Issue 4

April 2005

**CALIFORNIA LAND SURVEYORS ASSOCIATION, SAN DIEGO CHAPTER**

P.O. BOX 80697, MAIL BOX 261, SAN DIEGO, CALIFORNIA 92138  
sd-surveyors.org

## **Chapter Meeting** **Wednesday, April 20, 2005**

*De-Compression Session*

*The membership of the San Diego Chapter invites all test takers to come de-compress from the brain strain and join us for some Pizza and drinks on April 20, 2005, (the Wednesday after the test). Pizza and drinks are Free for all test takers.*

*In keeping with our goal to support and encourage future licensees, we want to know what you thought of this years LS Review program and get your input on how to improve it. Mike Hart, program coordinator, and other instructors, will be there to listen to your input and share in the food.*

### Location

**Filippi's Pizza Grotto**

10330 Friars Road  
San Diego 619-281-3511

6 p.m. Social/Networking  
6:30 p.m. Dinner and Discussion

Leave your name with Lisa Mejia. Email is preferred: lmejia@hunsakersd.com  
Or: 858 558-4500 - No later than noon Monday, April 18<sup>th</sup>

**Dinner for All Non Test Takers \$12**

Various Pizza and Salad  
Price includes tax and tip

## **GENERAL MEETING – March 16, 2005**

*The March Meeting was held at Tony Roma's on Via de la Valle in Del Mar. The Guest Speaker was Roger Frank, PLS. Roger is president of Johnson-Frank & Associates, Inc. in Anaheim, CA.*

*Roger's topic for the evening was the impact technology has had on the accuracy of survey measurements over the last 40 years. Prior to GPS, the EDM and electronic theodolites, transits and chains were the standard for previous eighty years.*

*Roger demonstrated that through advances in technology, there are compromises that must be made. With the advent of these new tools, which allow you to complete the task in half the time, accuracy is compromised. You can have speed, or you can have accuracy. For now, you can't have both.*

*Deciding which tool to use must be determined by the accuracy required for the particular task.*

### **Presidents Report**

-The Joint Conference in Las Vegas is March 18-23, 2005 in Las Vegas

### **Vice Presidents Report**

-The next meeting location has not yet been determined. All those who sat for the 2005 LS Exam are invited for free pizza and beverages.

### **Treasurer's Report**

-There is \$8505.53 in the General Fund and \$5192.98 in the Education Fund.  
-The \$3512 CD will mature in May and be rolled into the Curt Brown Endowment Fund CD.

### **Secretary's Report**

-Not present.

### **Education Committee**

-The LS Review classes are going well.

### **Membership Committee**

-Invoices are coming in. Some invoices have been returned undelivered. If you have not received your 2005 Invoice, renewal forms are available on the San Diego Chapter CLSA website.  
(<http://www.sd-surveyors.org>)

### **JPPC Report**

-No new cases reported.

### **Legislative Committee**

-No news on AB1024.

### **Chapter Representatives**

-The next State Board meeting is April 30 in Ontario, CA.  
-The Board of Registration is meeting in San Diego March 18. The meeting is open to the public.

### **New Business**

-Dave Johnson has announced that the 2005 Golf Outing is being formed and he is looking into the Rancho Bernardo Inn

as a possible location. The Outing will be held on a Friday sometime in mid-August.

### **Unfinished Business**

-Steve Martin is still researching ways to purchase shirts with the CLSA logo.  
-Servco has donated a beautifully restored instrument to be auctioned at the ACSM-CLSA-NALS-WFPS Conference.  
-Jack Roth announced that the Buck Knives have been received and that he will bring them to the conference.

Meeting adjourned

Submitted by,  
Andrew G. Karydes, PLS  
Treasurer 2005

## **EXECUTIVE BOARD MEETING**

**April 6, 2005**

*Meeting held at Nasland Engineering.*

*ATTENDING: Anne Hoppe, Don Woolley, Tony Nothdurft, DK Nasland, Andy Karydes, Gary Hus, Allan Wake, Mike Hart, Jeff Safford, Steve Martin, & Gary Chapman.*

### **Presidents Report**

Anne Hoppe opened the meeting at 5:50 PM. She mentioned the Chapter Quarterly Report is due April 13<sup>th</sup> and the secretary is working on it. She ask who among the Chapter Reps. present, are planning to attend the Chapter Meeting in Ontario on April 30<sup>th</sup>. Several Reps. answered affirmative.

### **Vice Presidents Report**

- Next meeting, April 20<sup>th</sup>, will be held at a pizza place and all those who took the LS Test will be invited for free pizza. The location will be announced later.  
- Don is working on a joint meeting with the San Bernardino / Riverside Chapter in June. The location has not yet been firmed up.

### **Treasurer's Report**

The General Fund has \$9630 and the Education Fund has \$5193 as of March 31, 2005.

### **Secretary's Report**

The Secretary read the highlights of minutes from the last meeting and asked if there were any additions or corrections. Being none, the minutes were accepted.

### **Education Committee**

- Michael said the LS Review classes have been well attended. The instructors have done an excellent job. In order to continue the fine tradition of these instructors it would be nice to have some new volunteers to help next year. Michael asked the board to provide restaurant gift certificates for each of the instructors who participated the last two years. It was decided to present them with \$150 certificates a Ruth's Chris Restaurant.  
- A discussion was held re: a lawyer's seminar that was looking for a surveyor to speak to their group. No one stepped forward.

### **Membership Committee**

There are 98 members paid so far.

## Legislative Committee

No report

## JPPC Report

DK said there are no new cases.

## Chapter Representatives

- The chapter meeting will be held in Ontario on April 30<sup>th</sup>. Several of our members plan to attend.
- Some items on the agenda are: election of officers, post 1982 engineers being county surveyors.
- see attached PDF file for the Board February minutes or contact any Chapter Rep.

## Unfinished Business

- Steve showed a catalog of shirts available with CLSA logos.
- A discussion was held re: naming a County CORS station for Dana Seguin. Anne will follow up.

## New Business

- Jeff reported the Golf Tournament will be held August 26<sup>th</sup> tentatively at Rancho Bernardo Inn Course.
- Doing a write up about Curt Brown for information to scholarship applicants was discussed. Steve brought up the possibility of changing the eligibility requirements for applicants.

## Next General Meeting

April 20<sup>th</sup> at a Pizza Restaurant to be announced later.

Meeting adjourned at 6:45 PM.

*Submitted by,  
E. Gary Chapman, PLS  
Secretary 2005*

## Education/Seminars/Workshops

**Subdivision Map Act** Thursday, April 21 - San Diego. A seminar presented by attorneys James Corn of Stoel Rives and Paul Meyer of CELSOC.  
- see <http://www.celsoc.org/uploads/SMA.pdf> or call 916-441-7991.

**Construction Lien Law in California** – in San Diego June 9, 2005. Seminar ID354872. See [www.lorman.com](http://www.lorman.com) or call 888-678-5565.

**Public Works Contracts and Administrative Alternatives in California** - in San Diego June 9, 2005. Seminar ID355529. See [www.lorman.com](http://www.lorman.com) or call 888-678-5565.

**Zoning, Subdivision and Land Development Law in California** –San Diego June 23, 2005. Seminar ID354491. See [www.lorman.com](http://www.lorman.com) or call 888-678-5565.

**Trimble Dimensions 2005** would like to extend an invitation to all Professional Surveyors to join us October 23-26, 2005 in Las Vegas for the premier positioning conference of the year. The theme of this year's conference is *Move Your Business Forward*. At the conference you will learn new tips and techniques for maximizing your ROI and growing your business. See [www.trimbleevents.com](http://www.trimbleevents.com) or call 1-800-353-9374.

**Land Survey Systems** – various locations. Contact Pacific Land Seminars. [paul@pacificland.com](mailto:paul@pacificland.com) or call 949-642-0335. See Pacific Lands website - [www.pacificland.com](http://www.pacificland.com).

**Geospatial Analysis and Technology** – Seminars, courses and software training. Contact [register@ucx.ucr.edu](mailto:register@ucx.ucr.edu) or call 951-827-4105. Web-site: [www.UCRExtension.net/geo](http://www.UCRExtension.net/geo).

**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).

**Cuyamaca College** - Surveying courses taught and organized by Ken Schumaker. [www.cuyamaca.edu](http://www.cuyamaca.edu). Or 619-668-4040.

**Santiago College GIS/GPS Surveying Program** - see [www.sac.edu/degrees/geography\\_information\\_degree.htm](http://www.sac.edu/degrees/geography_information_degree.htm)

**GIS Certification** – thru URISA  
<http://www.urisa.org/certification/2certific.htm>

### 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. The class must have been completed within the last 6 months.
- Applicants need to mail in a copy of their grade (of a surveying class) and address to: CLSA San Diego, P.O. BOX 80697, MAIL BOX 261, SAN DIEGO, CALIFORNIA 92138

### California Land Surveyors Association CLSA Education Foundation

P.O. Box 9098, Santa Rosa, CA 95405  
Telephone: (707)578-6016 FAX: (707)578-4406

- see attached PDF file for scholarship application or contact the foundation.

## EMPLOYMENT

**SURVEYOR:** San Dieguito Engineering, Inc., a civil engineering, planning and surveying firm, is offering a long-term position with "Principal" potential for experienced LS or LSIT. We are seeking a diverse individual with proven mapping, field, project management and computation experience. Full benefits and profit sharing plan. Submit confidential resume to: 4407 Manchester Ave., Ste 105, Encinitas, Ca. 92024, FAX (760)943-8236, or e-mail: [akarydes@sdeinc.com](mailto:akarydes@sdeinc.com)

### **Survey Analyst/Sr. Survey Analyst position**

The Keith Companies' San Marcos division (N. San Diego County) has a need for a Survey Analyst/Sr. Survey Analyst. The Keith Companies is a California based planning, civil engineering, design, and surveying firm that provides services for a variety of development and public works projects throughout the West and Midwestern United States. Publicly traded on the NASDAQ (TKCI), our reputation for quality work has helped us become one of the fastest growing consulting

firms. TKC offers a work environment that challenges, enhances, and rewards each individual. TKC values diversity, encourages growth, and offers a variety of opportunities. See our website at [\[url\]www.keithco.com\[/url\]](http://www.keithco.com) for all of our exciting opportunities!

The Survey Analyst/Sr. Survey Analyst requires 1-2 yrs office surveying/mapping exp; Sr. Survey requires 2-4 yrs exp with LSIT or LS. Will work within all aspects of office survey/mapping to survey research, boundary determination, legal descriptions and exhibits, Records of Surveys, Parcel Maps, Final Maps and Rights of Way. Must be proficient in word processing and mapping/AutoCADD LDDT software.

Our preferred method to apply is online at [\[url\]http://www.keithco.com/eop.asp\[/url\]](http://www.keithco.com/eop.asp) resumes can be faxed to 760/891-3201, or call 760-891-3219 or mailed to The Keith Companies, 277 Rancheros Drive, Suite 300, San Marcos, CA 92069

We offer competitive benefits and salary. EEO.

**KAPPA Surveying, Inc.** has an immediate opening for an experienced chainman, and would like to add another crew (i.e., party chief and chainman) in the very near future.

Contact Melissa Turner [missyturner@cox.net](mailto:missyturner@cox.net), or by telephone at (619) 465-8948, or by fax at (619) 465-6410.

#### **COUNTY OF SAN DIEGO**

**Junior Surveyor** - Requires degree in Land Surveying from an ABET approved college or university, OR a valid LSIT and two years of professional land surveying experience. (\$46,301 - \$56,285 DOQ)

**Assistant** - Requires degree same as above and one year of professional land surveying experience after graduation; OR a LSIT and three years experience after obtaining the LSIT. (\$53,518 - \$65,021 DOQ)

**Land Surveyor** – Requires registration by the State of California as a licensed Land Surveyor or registration as a Civil Engineer by the State of California with the authority to practice land surveying. (\$63,003 – 76,565 DOQ)

Apply immediately, open until further notice. Apply to Dept of HR, 1600 Pacific Hwy, Room 207, San Diego, CA 92101. Phone: (619) 236-2191, or see web site at [www.sdcounty.ca.gov](http://www.sdcounty.ca.gov). Applications required, no resumes.

**Masson & Associates, Inc.** is seeking several employees:

- **Survey Party Chief** with a minimum 5 years experience with focus on construction staking. Applicant should be responsible, innovative and dedicated to the profession with strong technical, organizational and communication skills.

Responsibilities include performing Topographic, Boundary, Right of Way, Aerial Control and Construction Staking Surveys using TDS with Geodimeter Total Stations and Trimble GPS surveying equipment. Applicants should have completed the LSIT with the desire to obtain LS. Computer and LDD/AutoCAD knowledge preferred.

- **Senior Land Surveyor** with a minimum 10 years of surveying and mapping experience. LSIT required, LS preferred. Responsible for supervision and scheduling of office and field staff, marketing, project management, and quality control.

- **Survey Mapping Technician** with a minimum 2 years of surveying and mapping experience. Knowledge of legal description interpretation and attention to detail a must. Must be knowledgeable in AutoCAD and LDD.

- Competitive salary and benefits. Please send resume via email at [dogrady@masson-assoc.com](mailto:dogrady@masson-assoc.com) or via fax at (760) 741-1786.

**Pasco Engineering**, a mid sized civil engineering and land surveying firm in Solana Beach is looking for a surveyor to perform a mix of office and field work. LSIT preferred, map processing abilities a plus. Contact Joe Yuhas at 858-259-8212X109.

**Aerotek Engineering** is looking for **Assistant Land Surveyors**. This is an outstanding opportunity for a person with a minimum of 3 years experience, 5 years experience preferred, an LSIT (LS preferred) with knowledge of boundary procedures, easement interpretation, reduction of field notes, and map, plat, and legal description preparation experience.

**Associate Survey Analyst** - a candidate with an A.S. in Civil Engineering or Surveying plus two years experience or equivalent work experience of four years. Candidate must demonstrate familiarity with the basics of boundary principles as well as geometry and trigonometry.

**Survey/Mapping Technicians:** This person must be proficient with AutoCAD. This person will be expected to conduct many different Land Survey functions such as creating Parcel Maps, Subdivision Maps, producing basic survey calculations, and reviewing legal descriptions and title reports. We must have a person with experience in the fields of Land Surveying or Civil Engineering. We are offering very competitive benefits, salary, and opportunity for advancement.

- For immediate consideration please e-mail [jmckin@aerotek.com](mailto:jmckin@aerotek.com) or call John McKinley at (619) 278-3021.

**Construction Testing & Engineering Inc** needs Sr. Survey Crew Chief and Sr. Survey Technician.

-The positions require a minimum of 5 years of land surveying experience, and knowledge of AutoCAD.

-Responsibilities include field survey data management and processing, including GPS survey support, survey calculations and adjustments, preparation of CADD maps for boundary and topography, and construction surveying and support calculations plus occasional field survey work. Knowledge of TDS software and Robotics a plus.

Please fax resumes to John at 760-746-9806 or email [john@cte-inc.net](mailto:john@cte-inc.net)

#### **Berryman & Henigar, Inc**

**SURVEY ANALYST / MAP CHECKER**

Responsibilities: Application Of Subdivision Map Act And The Land Surveyors Act. Ability To Evaluate And Assess Boundary Line Determination. Verify Technical Correctness Of Maps And Legal Descriptions. Determine Substantial Compliance Of Final And Parcel Maps.

Qualifications:

LSIT Certificate, One Year Experience Min. In Final And Parcel Map Preparation Experience. Registration As A Professional California Land Surveyor A Plus. Working Knowledge Of

Boundary Control And Legal Principles. Ability To Interpret Traverse Calculations For Technical Correctness Knowledge Of Tentative Map Process Along With Conditions Of Approval

Contact: Mike Foreman @ Berryman & Henigar, Inc., San Diego Office – Phone: (858) 451-6100

**SB&O, Inc.** is seeking qualified individuals for our San Diego, Temecula and Rancho Cucamonga offices.

- Land Surveyor and/or LSIT with experience in boundary research and analysis, preparation of legal descriptions, subdivision mapping, ALTA and topographic surveys and construction staking calculations. Ideal candidates will be proficient in Autocad 14 and 2000i. Competitive salary and benefits.

- Send resumes attention Mike Butcher to SB&O via:

fax: 858-560-8157 e-mail: [m butcher@sboinc.com](mailto:m butcher@sboinc.com)

mail: 3615 Kearny Villa Rd, Suite 201, San Diego, CA 92123

SB&O, Inc. is an equal opportunity employer.

**Hunsaker & Associates** is looking for an experienced Survey Mapper. This position requires the ability to manage mapping projects from start to finish. This position also requires experience and hands-on involvement with mapping related task including: research, writing legal descriptions, record boundary and encumbrance maps, ALTA Surveys, boundary analysis, subdivision maps, parcel maps, record of surveys and condominium plans. Experience with ACAD 2000 and Eaglepoint is desirable.

Please e-mail or fax resume to [jobs@hunsakersd.com](mailto:jobs@hunsakersd.com)

(858) 558-1414 FAX, or mail to: Hunsaker & Associates Inc., San Diego, 10179 Huennekens Street, SD CA 92121

**Lintvedt, McColl & Associates** is seeking a qualified Land Surveyor to provide office expertise in GPS, boundary, right-of-way and topo surveys. A candidate should have a working knowledge in research, calculations, ROS's and legal descriptions preparation as well as the desire to work and grow in a progressive friendly environment. Competitive Compensation, Excellent Benefits and Opportunities. EOE M/F

- Resumes to: Lintvedt, McColl, 3737 Camino Del Rio S. #200 SD CA 92108 or [LMA@LMAENGINEERING.COM](mailto:LMA@LMAENGINEERING.COM) Fax 619/280-1515.

## **ANNOUNCEMENTS**

### **Good News! Phil Giurbino Alive and Well!! Miraculous Recovery!!!**

- despite the announcement in the March newsletter stating: Bruce Marquis new County Surveyor, it should have said that Bruce is a new County surveying employee. Many were concerned about Phil and if now Bruce would be signing their Maps. What a way to stir up controversy. Sorry about the mix up Phil - we're glad you are alive and well, after all. And sorry Bruce, I hate to inform you, but you're no longer the Boss over at the County.

### **More on the bill to abolish the Board for Professional Engineers and Land Surveyors**

Andy sent this in: This alert is sent by the American Society of Civil Engineers Government Relations Staff. If you have

questions or comments about any items in this report, please contact (202) 326-5227 or please email [govwash@asce.org](mailto:govwash@asce.org)

The California Assembly is currently considering a bill that would dissolve a number of professional boards, including the California Board for Professional Engineers and Land Surveyors. A.B. 1024 was introduced on February 22nd by Assembly Member Marian Walters (R-CA73) and is currently awaiting action by the Assembly.

We are asking ASCE Members to call, write, fax and email letters to their state legislators to OPPOSE this bill. In February, 60 ASCE Members from the California Sections visited Sacramento to voice their opposition to this bill. We are hoping that all California ASCE Members will get involved to oppose this bill. The public interest is best served when the judgment of technical qualifications and evaluation of professional competence are made by state licensure boards with members who are themselves licensed professional engineers and land surveyors.

Send a letter to your state legislators from ASCE's Online Advocacy Site!

Login to ASCE's Internet Advocacy Website at <http://www.asce.org/advocacy.html> to send a letter to your state legislators. Use your six-digit ASCE member number for the "Name" and your last name for the "Password". Click the "State Advocacy" button at the top of the page. The website will provide you with a sample message and talking points to help you craft your own personal message to your lawmaker.

Please be sure to include your full postal address and contact information in your message so that the legislator's office can identify you as a constituent and will know where to send a response. Please remember to send a copy of your message to ASCE's government relations office at [govwash@asce.org](mailto:govwash@asce.org). Alternatively, you may choose the fax option to send your message.

The idea of abolishing these professional boards was first put forth in last year's California Performance Review and has the backing of Governor Arnold Schwarzenegger. The California Performance Review can be viewed at <http://cpr.ca.gov/>.

• Let ASCE know of your action. Knowing which legislators are hearing from their constituents can help us a great deal in working with them in the future. Send copies of your correspondence to Lauren Bailey, ASCE's Manager of State Government Relations, at [lbailey@asce.org](mailto:lbailey@asce.org).

When calling your legislators:

1. Identify yourself as an engineer and a constituent.
2. Briefly explain that you oppose A.B. 1024 and give your reasons.
3. Ask if the legislator has a position on the bill.
  - a. If the legislator already opposes the bill, thank him/her for supporting engineers.
  - b. If the legislator is undecided, ask him/her to consider supporting the bill.
  - c. If the legislator supports the bill, politely ask him/her to reconsider his/her support and explain that this is an important issue for you.

When writing to your legislator:

1. Identify yourself as an engineer and a constituent.
2. Explain that you oppose A.B. 1024 and list your reasons.
3. Ask your legislator to let you know his/her position on the bill.

### **Request for Information**

Michael Pallamary, PLS is requesting copies of any unique condominium plans or any set of plans that exemplify professional standards for plan preparation. I am also interested in obtaining copies of any unique notes regarding the accuracy of the plans or any other notes of general interest to the surveying profession. This material is intended to be used in a future publication and as such, I am only interested in copies of recorded documents. Please forward material to: [mpallamary@pipeline.com](mailto:mpallamary@pipeline.com) or: Pallamary & Associates, 7755 Fay Avenue, Suite J, La Jolla, CA 92037.

**CLSA Website & Email Change** - The old URL [ca-surveyors.org](http://ca-surveyors.org) will no longer redirect to the current CLSA website or email. Please be sure to update your email address book and bookmarks: Email:[clsa@californiasurveyors.org](mailto:clsa@californiasurveyors.org)  
Website:[www.californiasurveyors.org](http://www.californiasurveyors.org)

### **A story about a famous Surveyor**

This was told during the Lincoln-Douglas debates almost 150 years ago and in a way still holds true to our Profession.

After a long and puffy speech by Stephen Douglas, Abraham Lincoln asked the audience, "How many legs would a horse have if you called his tail a leg?"

"Five," called out some of the onlookers.

"Four," replied Lincoln. "Calling a tail a leg doesn't make it true."

- which ties into the quote from an article "Traversing the Law " by Jeffery N. Lucas, PLS, Esq. – see **One More Point** on the final page.

The subject is the Marketable record title act. The full article is good stuff. It asks the question - **are you a boundary Surveyor or a property Surveyor?** The article in POB discusses the difference and its importance. It can be found in the Feb 2005 issue of POB or online at:

<http://www.pobonline.com/CDA/ArticleInformation/Article/1,9169,143023.00.html>

**Unique Advertising Opportunity** - The San Diego Chapter offers banner advertising space on it's web site, [sd-surveyors.org](http://sd-surveyors.org) for only \$100 per year. This is a great opportunity to promote your firm with the local Surveying Industry and support your local Chapter. Contact Armand Marois at (760) 931-8700 to find out how.

### **Newsletter**

- Members are encouraged to receive email newsletters in lieu of mailings. Please review your need to receive a mailed copy of the newsletter. To request an email newsletter only contact Jas Arnold at [jarnold@rickeng.com](mailto:jarnold@rickeng.com).

-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](mailto:awake@sandiego.gov) and at [48wake@cox.net](mailto:48wake@cox.net) .

### **Advertising policy approved by the Board:**

1) full page one time in newsletter \$150.00 charge. 10% discount one year paid in advance. 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.

**Thanks to advertisers Lewis & Lewis, Photo Geodetic, TOWILL Aerial Mapping, Paul Cuomo Press, Allen Instruments and Fred Youna for your support!**

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### **A New Era in GPS Surveying is Coming Are You Ready?**

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**11305 Rancho Bernardo Rd. #120, San Diego, CA 92127**

### **Trimble R8: The Future of GPS Surveying is Here**

The Trimble R8 GPS System combines industry leading GPS receiver technology with innovative features to improve your productivity in the field. Use Trimble R8 as a wireless base station or rover. It will adapt to the needs of your job, whatever your surveying application.







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Special Thanks go to all of our Customers and Friends who graciously referred EOIC to their friends and Partners. Our Business is built based on the positive comments and referrals from people just like you. We just couldn't do it without you.

### Z-Max Surveying System

The Z-Max® surveying system from Thales Navigation leverages the latest in surveying technology by integrating field and office software solutions focused on topographic and construction surveying. With this comprehensive suite of software tools, the Z-Max total surveying solution can enhance your surveying capabilities, boost your productivity, improve your data quality, and upgrade your deliverables.

#### SUPERIOR RTK PERFORMANCE

Z-Max rises above other GPS receivers with ADAPT-RTK™. This breakthrough technology dramatically expands centimeter-accurate coverage by rapidly adapting to current conditions. With ADAPT-RTK, Z-Max ensures exceptional RTK coverage and data confidence.

Z-Max is capable of using VRS and FKP, so that optimal results can be obtained in networks of reference stations.



990930-1 Z-Max Receiver Single

### ProMark2

#### THE THALES NAVIGATION GPS ADVANTAGE

The ProMarkII™ survey system from Thales Navigation delivers a unique combination of centimeter-level survey accuracy and meter-level navigation in one convenient system. Utilize integrated WAAS/EGNOS aided navigation to locate the survey point, collect GPS data with the receiver's on-board software then process the results with logical, user-friendly PC software. Putting the power of GPS to work for your organization has never been easier and more affordable.

G.P.S Demonstrations Available



990511-02, ProMark2 Kinematics 2 Receiver Kit

### MobileMapper

#### INDUSTRIAL STRENGTH MAPPING SOLUTIONS

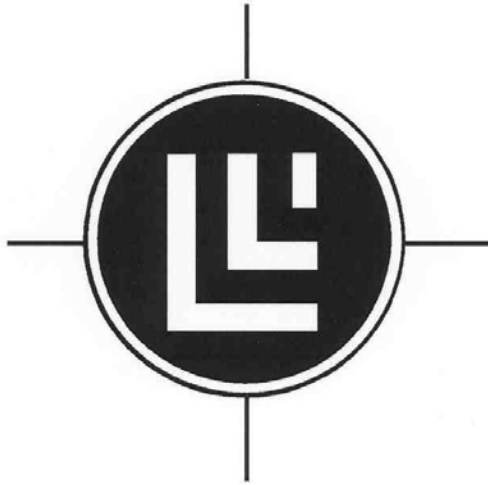
#### HIGH PERFORMANCE GPS

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*Jeffery N. Lucas, PLS, Esq.* © 2005 BNP Media Feb. 2005 POB



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