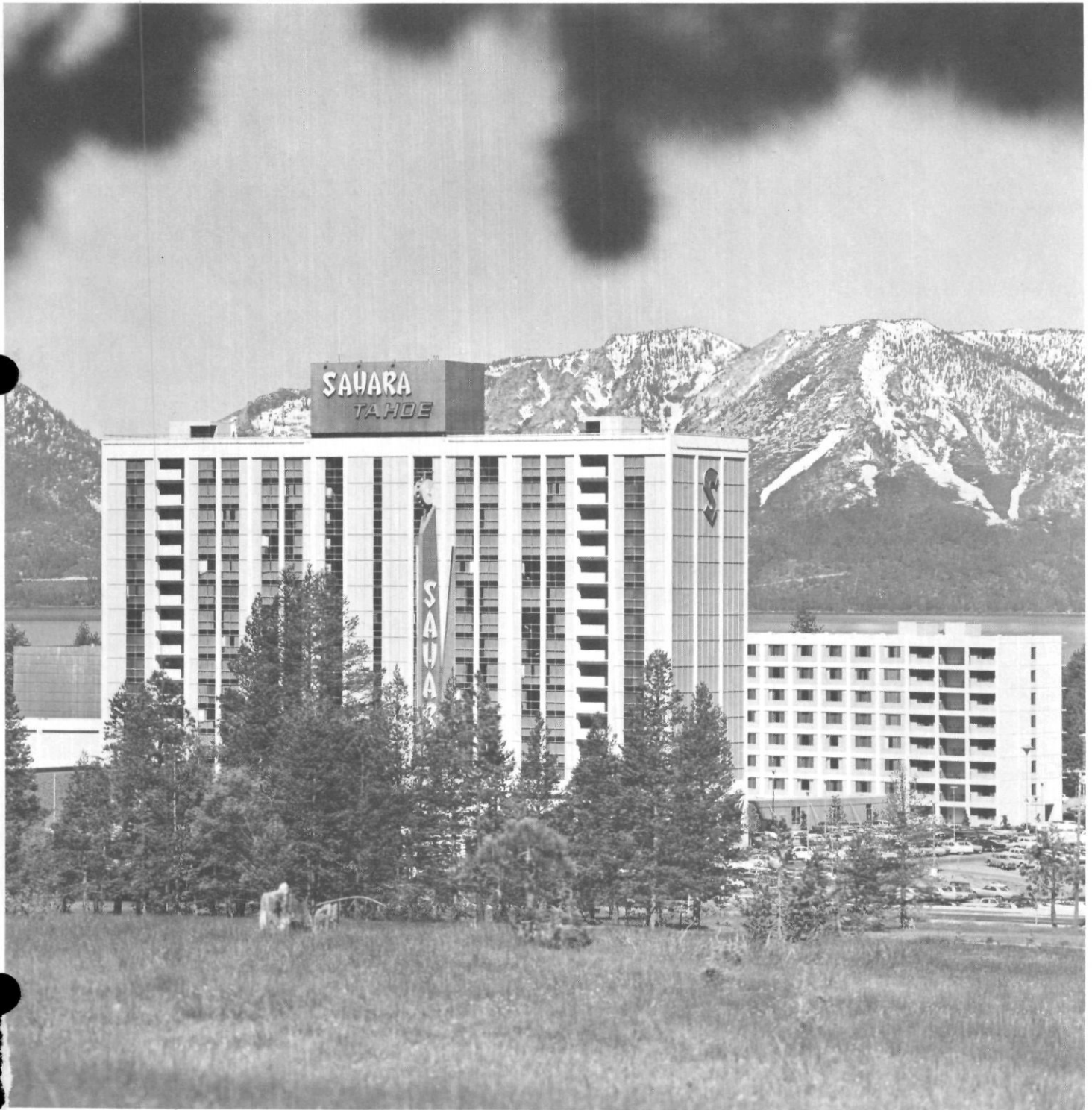


The California Surveyor

No. 55

The Voice of the Land Surveyors of California

Spring 1979



**CALIFORNIA LAND
SURVEYORS ASSOCIATION
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**THE CALIFORNIA
SURVEYOR**

is the quarterly publication of The California Land Surveyors Association and is published as a service to the Land Surveying profession of California. It is mailed to all Licensed Land Surveyors and Land Surveyors in Training in the state of California as well as to all members of California Land Surveyors Association. *The California Surveyor* is an open forum for all surveyors, with an editorial policy predicated on the preamble to the constitution of the California Land Surveyors Association and its stated aims and objectives, which read:

“Recognizing that the true merit of a profession is determined by the value of its services to society, the ‘California Land Surveyors Association’ does hereby dedicate itself to the promotion and protection of the profession of Land Surveying as a social and economic influence vital to the welfare of society, community, and state.”

“The purpose of this organization is to promote the common good and welfare of its members in their activities in the profession of Land Surveying, to promote and maintain the highest possible standards of professional ethics and practices, to promote professional uniformity, to promote public faith and dependence in the Land Surveyors and their work.”

PERSONNEL

Owner: California Land Surveyors Association
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National Sales Manager: Fred Rose —
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Production: Fred Rose — John Geier

Advertising

Commercial advertising is accepted by *The California Surveyor*. Advertising rates and information can be obtained by contacting Almac Technical Graphics, 2476 Embarcadero Way, Palo Alto, CA 94303. Phone 415-327-6785.

Sustaining Membership

Membership in the California Land Surveyors Association as a sustaining member is open to any individual company or corporation who, by the interest in the Land Surveying profession, is desirous of supporting the purposes and objectives of this association. For information regarding sustaining membership, contact the Editor of *The California Surveyor*.

Editorial Material

All articles, reports, letters and contributions are accepted and will be considered for publication regardless of the author's affiliation with the California Land Surveyors Association.

Material should be sent to *The California Surveyor*, 4960 Minas Drive, San Jose, CA 95136.

EDITOR: Michael S. McKissick, L.S.
4960 Minas Drive
San Jose, CA 95136
Phone (408) 287-3400

**DEADLINE DATES FOR
THE CALIFORNIA SURVEYOR**

SUMMER MAY 19, 1979
FALL AUGUST 18, 1979

Articles, Reports, Letters, etc., received after the above mentioned date will be placed in the next edition.
Editor

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Written Examination Schedule
1979**

Land Surveyor-in-Training—LSIT

***Final Filing Dates:**

April 7, 1979 (Saturday)
August 31, 1979 (Friday)
November 3, 1979 (Saturday)

****Land Surveyor—LS**

July 6, 1979 (Friday)
November 3, 1979 (Saturday)

*Applications filed after the final filing date specified will be considered for the following examination.

Until further notice, these exams will be given only **once a year.

NOTE: This schedule is subject to change at any time without prior notice.



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As an example: Here's how easy it is to compute a street intersection. (Centerline points 1, 2, 108 & 261 have already been computed and stored in memory)

STRAIGHT x STRAIGHT	STRAIGHT x CURVE	CURVE x CURVE
---------------------------	------------------------	---------------------

STREET INTERSECTIONS

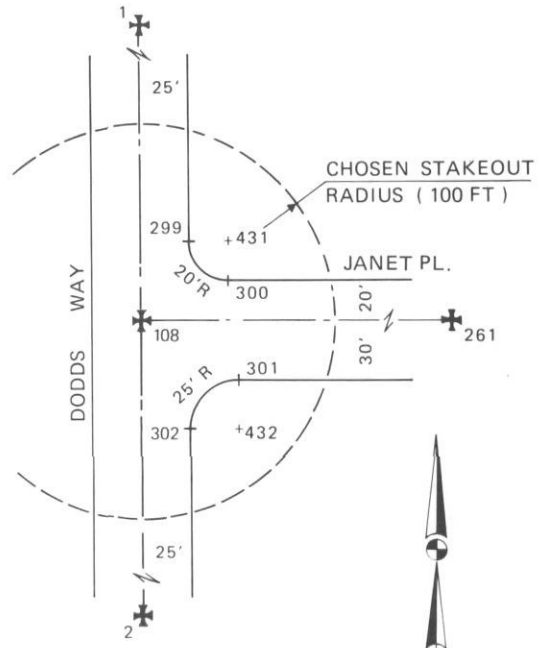
1. SELECT program.
2. ENTER requested data:

(P.I.) POINT#? 108.	BACK OFFSET? 30.
(1ST C/L) TO POINT? 1.	(NEXT C/L) TO POINT? 2.
OFFSET? 25.	OFFSET? 25.
(NEXT C/L) TO POINT? 261.	CORNER RADIUS? 25.
OFFSET? 20.	RADIUS= 25.0000
CORNER RADIUS? 20.	DELTA= 90.00000
RADIUS= 20.0000	LENGTH= 39.2699
DELTA= 90.00000	TANGENT= 25.0000
LENGTH= 31.4159	CHORD= 35.3553
TANGENT= 20.0000	(BC/PC) POINT#? 301.
CHORD= 28.2843	9263.0842
(BC/PC) POINT#? 299.	10052.6976
9332.9924	(RADIUS) POINT#? 432.
10027.4417	9238.0843
(RADIUS) POINT#? 431.	10052.7890
9333.0656	(EC/PT) POINT#? 302.
10047.5148	9237.9931
(EC/PT) POINT#? 300.	10027.7894
9313.0656	BACK OFFSET? 30.
10047.5148	

then, for staking out all points within a 100' radius of #108:

STAKEOUT DATA
Successive Points
Fixed Point

FROM POINT? 108.
BACKSIGHT POINT? 1.
RADIUS? 100.



... with the stakeout data printed on an optional page printer:

INSTRUMENT PT=	108.	9292.9012	10002.5882						
BACKSIGHT PT=	1.	10000.0000	10000.0000						
STAKEOUT RADIUS=	100.00								
TO PT:	BEARING	N AZIMUTH	TURNED<	2XTURNED<	DEFLECTED<	2XDEFLECTED<	DISTANCE	NORTHING	EASTING
299.	NE 31.47444	31.47444	32.00194	64.00388	- 147.59406	- 295.59212	47.17	9332.9924	10027.4417
300.	NE 65.49410	65.49410	66.02160	132.04320	- 113.57440	- 227.55280	49.24	9313.0656	10047.5148
301.	SE 59.14445	120.45155	120.57505	241.55409	- 59.02095	- 118.04191	58.31	9263.0842	10052.6976
302.	SE 24.39132	155.20468	155.33218	311.06435	- 24.26382	- 48.53165	60.42	9237.9931	10027.7894
431.	NE 48.09243	48.09243	48.21593	96.43585	- 131.38007	- 263.16015	60.21	9333.0656	10047.4415
432.	SE 42.28593	137.31007	137.43357	275.27113	- 42.16243	- 84.32487	74.33	9238.0843	10052.7890

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Editorial

C.L.S.A. is sponsoring SB 2 (Senate Bill 2), legislation designed to remove section 8731 from the Land Surveyors' Act. Section 8731 (commonly called the civil engineer's exemption) allows registered civil engineers to practice land surveying without having to be licensed as a land surveyor. The purpose of this letter is to summarize the reasons the exemption should be abolished and to urge you to take part in this effort.

The exemption was justified when it was amended to the Land Surveyors' Act in 1939. Civil engineers at that time were receiving sufficient training in surveying and the law adequately protected the public. Today this is no longer the case. Trends in educational programs, growth in knowledge, and the expanding applications of surveying has produced a situation where the law no longer protects the public.

Advances in the physical sciences, mathematics, and the increasing complexity of engineering projects has all but squeezed surveying courses out of

civil engineering curriculum. Twenty colleges in California offer either Bachelor of Science degrees in civil engineering or degrees in engineering with civil engineering as the area of emphasis. Three of these schools require civil engineering students to take two courses in surveying, ten schools require only one course, four offer surveying only as an elective, and three schools offer no surveying at all!

Students enrolled in Geology, Geography and Astronomy may take courses in basic surveying. This could not be interpreted as preparing them for entry level into the profession of Land Surveying. Conversely, the surveying students do take courses in Geology, Geography, and Astronomy, and they do not consider themselves Geologists, Geographers or Astronomers. It is illogical to assume that, just because engineering programs offer basic surveying courses, their students are exempt from showing that they possess at least the minimum amount of knowledge tested by a professional exam.

Today's land surveyor must be acquainted with an extensive body of specialized knowledge, both technical and legal, to properly do his job. A background of just one or two surveying courses with no additional training does not adequately prepare a person to competently practice as a licensed land surveyor.

Removal of the exemption will reverse the trend toward de-emphasizing surveying in our educational system. In the future, the apprenticeship system alone will not be able to supply the number of properly educated or qualified people as the profession of surveying grows both in size and scope. Much more surveying needs to be taught. Demanding a proper level of competency from those engaged in surveying, as reflected by examination and experience (both on the job and education), will help bring this about.

SB 2 will be considered by the Senate Business and Professions Committee. Passage by the committee is required before the bill can be pre-

(Continued on Page 1)

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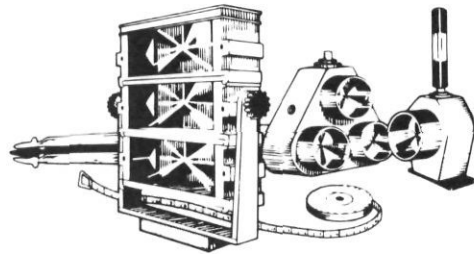
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†Cubic DM-60 Cubitape Distance Meter	25 00	15 00	10 00
†Hewlett-Packard 3805 Distance Meter	25 00	15 00	10 00
†Hewlett-Packard 3808 Distance Meter	50 00	30 00	20 00
†Hewlett-Packard 3810 Total Station	60 00	36 00	24 00
†Hewlett-Packard 3820 Total Station	120 00	72 00	48 00
*†K & E Autoranger with Azimuth Base or mount for Theodolite	30 00	18 00	12 00
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President's Message

WHY SHOULD YOU BELONG TO CLSA?

by Paul W. Lamoreaux, Jr.

The California Land Surveyors Association is an association of professional surveyors and if you are a professional, you should belong to your association. If you are looking for a deal, then you should not join CLSA. We do not give away coupons good for five free drinks at breakfast and 50% off on your next dinner.

As an association we do many things. For instance, we publish a newspaper, maintain a legislative presence in Sacramento, annually hold a convention, maintain an administrative office with executive director. All of these functions are for the benefit of the professional surveyors of California, and if you are a professional you should take advantage of these services. However, it will cost you time and money.

Why is there an association in the first place? Because some professional surveyors in 1965 in Santa Rosa and in Sacramento believed that the state of affairs in California was fast deteriorating and they should get together and try and influence the situation by any measure. The situation in California today is vastly better than it was in 1965 for the professional surveyors.

One of the main activities of the CLSA is to maintain a presence in Sacramento. To do this, we have engaged a legislative advocate. With his cooperation and a lot of hard work by the Legislative Committee, all bills

introduced in the legislature are reviewed via the *Weekly History*. Copies of any bills which look like they may be of interest to CLSA are ordered. If the bill does seem to influence the surveyor, copies are then ordered for the remainder of the committee and, after review by that group, a position is taken either to support, watch, oppose, ask for amendments, or forget. This activity is, of course, not done for nothing. It takes the time of many individuals and it takes some money. The bargain which you receive is great considering the time devoted by members.

Currently, we have introduced a bill to remove the exemption from the Land Surveyors Act, and this bill (SB62) will soon be in print. There will be committee meetings of the legislature to appear at, in addition to committees of other associations, leagues, and other interested groups. Another bill of interest to CLSA at this time is SB69. SB69, if enacted, would require that a surveyor pay a fee to have the record checked by the County Surveyor's staff. CLSA is opposed to this, and we have contacted the author and Riverside County Surveyor's Office who had the bill introduced. We propose that the county adopt an ordinance requiring parcel maps and recommend that a fee not be charged. Again, this activity is not done without cost.

Another expense is publishing *The California Surveyor*. The *Surveyor* is printed at the expense of the members of CLSA, because they are professionals and they believe that all

surveyors in California should be kept informed and have an opportunity to learn the news and discuss ideas of common interest. The cost is defrayed by advertising. However, this income does not totally pay for publishing the *Surveyor*. I am sure that you appreciate the quality of the *Surveyor* as it has been over the years. This is due to the devotion of all of the past editors. These professional surveyors believe that this is worthwhile, and they personally have spent many hours of their own time because they are professionals.

Another obvious activity of CLSA is the annual convention. In most years, this is self sustaining. However, from time to time it does not always carry its own weight therefore the professional surveyors of California are ready to pick up the bills. Many people are involved with their own time because they are professionals. A site must be selected, exhibits arranged for, program put together, speakers arranged for. I am sure you recognize the time involved with this activity, and again sure that you will agree that all past conventions of CLSA have been outstanding.

Another activity of CLSA which the professional surveyors of California support is the maintenance of an administrative office in Santa Rosa. Dorothy Caligari, our Executive Director, is the left and right arm of the association. Under contract to CLSA, Dorothy maintains our central office records and functions as a general factotum of the association. This in-

(Continued on Back Cover)

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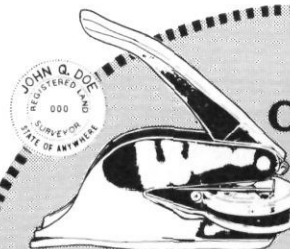
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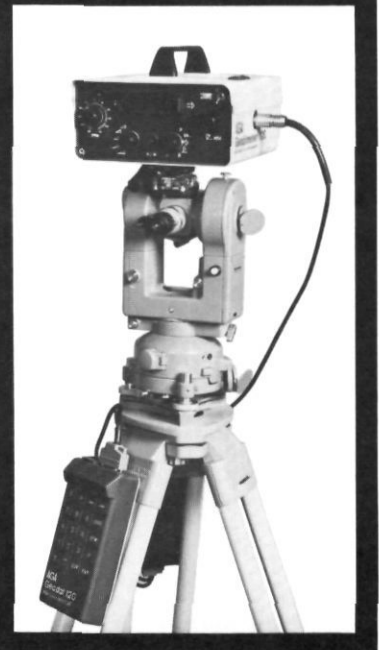
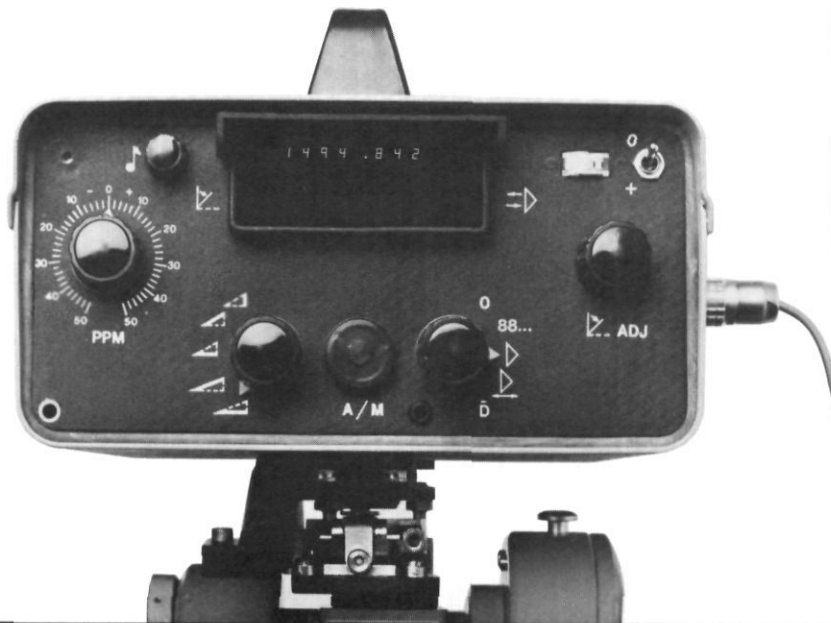
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Letters

Editor:

Many of Mr. Uzes comments upon "Water Boundary Control in California" are very well taken, and he is much more of an accepted authority on water boundaries than I. But his position as the Supervising Boundary Determination Officer for the California State Lands Commission places his stated opinions in a very suspect position. Some of the recent interpretations of the State Lands Commission with regard to water boundaries are presently in the courts. It is claimed that the Commission's interpretations of the water boundary laws and decisions have been made on a very selective basis, and that the interpretations have been literal or liberal depending upon the desires of certain political forces at the time.

One example is the statement of a representative of the Commission at a local meeting a little over a year ago about certain sloughs being navigable, and therefore property of the State. His contention was that they were navigable at the time of statehood by the

residents of the time (Indians in canoes, during high tide). Others, although not navigable (or even in existence) at the time of statehood are presently navigable, and thus the property of the State—even though those waterways were created on private land with private money much after statehood (reasoning: the money was borrowed from private interests, but with public guarantees, thus giving the people of the state interest in the land. Cal-Vet loans have similar guarantees.)

I believe that it is not difficult for one to notice some lack of objectivity by the State Lands Commission as regards water boundaries, and as Supervising Boundary Determination Officer, Mr. Uzes's opinions must be taken with full realization of their source. His comment in the first sentence of his article about Mr. Greenwell is just as important as the knowledge of where the State Lands Commission

stands as regards water boundaries—very highly suspect.

Sincerely,
Samuel E. Crabtree, P.E.,
RCE 14295,
Affiliate Member, CLSA

Dear Sir:

I was surprised to see the letter by Richard J. Mitchell as a "Response to Fresno State Student Chapter Report" printed in the Winter Edition of *The California Surveyor*. The printing of a variety of opinions in our newsletter is healthy for the informative process, but an analysis of this opinion will show the intended message in the letter.

It appears that Mr. Mitchell believes that students should keep their noses into technical subjects and not get involved in legislative processes and the political future of the profession

(Continued on Page 12)

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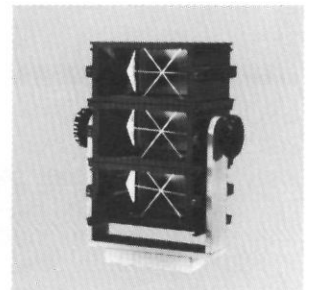
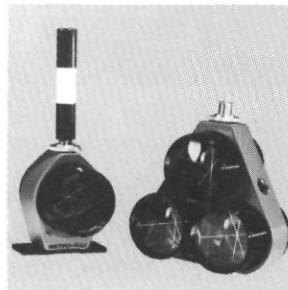
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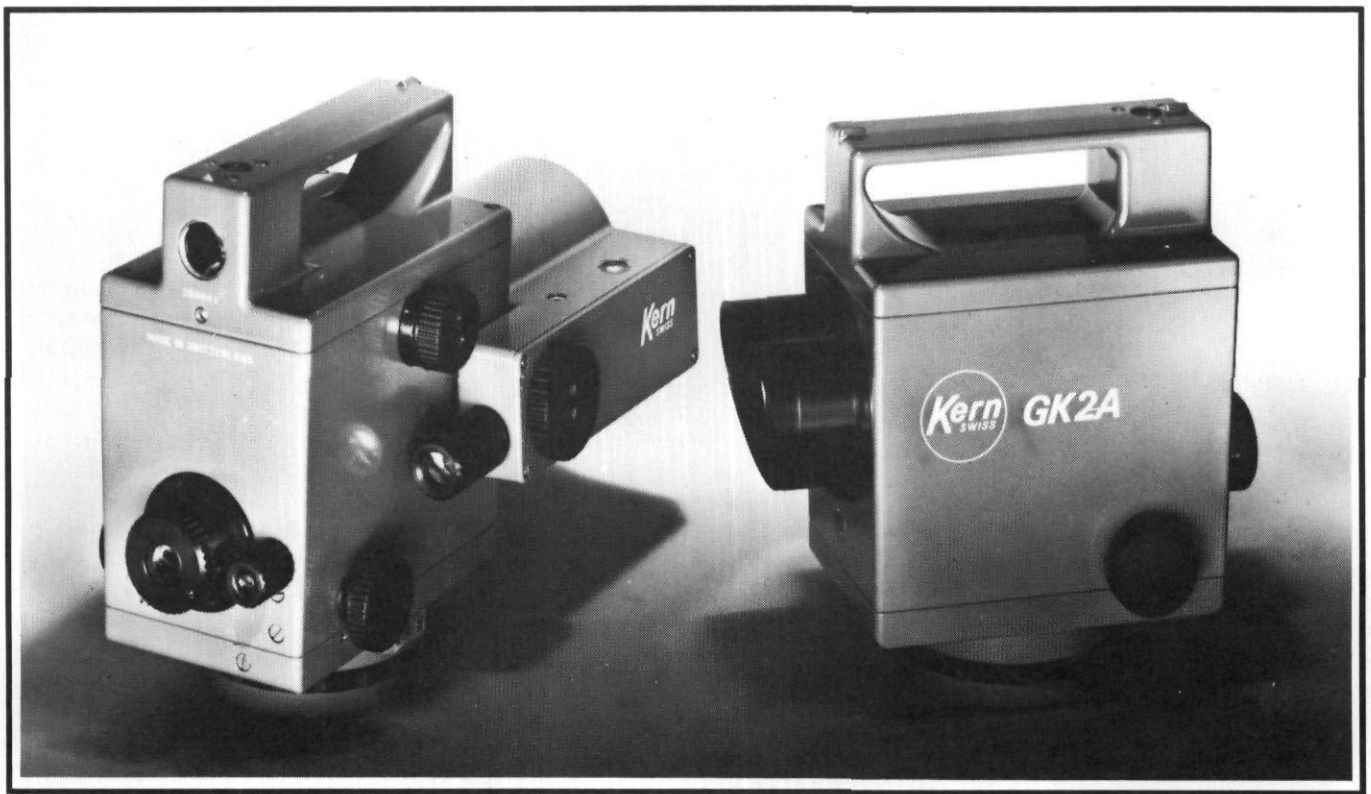
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Chapter Notes

Sonoma County/Marin County Chapters

The November meeting of the Sonoma County Chapter was held in conjunction with the Marin County Chapter on November 8, 1978, at Sonoma Joe's Restaurant in Petaluma, California.

The Marin Chapter held their meeting first, and dealt with two items. One was the agreement to meet with representatives of the County of Marin to obtain relief from the ridiculous and costly policy the County has adopted of requiring a Parcel Map to effect the changes of a Lot Line Adjustment. The County is requiring them because they have a higher application and processing fee, and the extra funds are needed since Proposition 13 cut so deeply. All agreed higher fees for lot line adjustments would fill the need in a less absurd manner. This upcoming meeting will hopefully clarify the situation to some department heads. The second was the election of Chapter Officers and Representatives.

The Sonoma Chapter then held their meeting. Doane Heryford mentioned that a month or two should wrap up the Grand Jury investigation on "moonlighting". Also, the Board of Registration is greatly concerned in this matter and is looking into it on its own. This perusal by the powers that be should bring hard, positive results, and the consumer out there paying good money for shoddy, incompetent, unsupervised & unlicensed work will benefit. Neal Campbell reported that the long-awaited E.D.M. Baseline is

ready for usage, and that information regarding it will be sent out shortly.

An open meeting followed with the two chapters discussing joint concerns such as seminars and fees for the same, who benefits from the filing of Records of Survey, etc.

The December meeting was held on the 13th at the offices of Mitchell & Heryford in Santa Rosa to elect & install new officers and to discuss Senate Bill 2.

The January meeting of the Sonoma County Chapter was held January 17, 1979, at the offices of Mitchell & Heryford, Santa Rosa, California. The Secretary was directed to inquire of the time, place, and date, with discussion of his findings set for the February meeting. Also, a letter to Mr. Fred Seiji, discussing his schedule and inviting him to be our guest speaker, was to be sent immediately.

Given the desire to gather again with Public Agency and Title Company personnel, a meeting set for Wednesday, March 14th, 9:00 to 12:00, at the Santa Rosa Community Center, was agreed on. This time, it was thought that three or four areas, like creation of easements, notes on maps, changes in the Map Act, and roadway design, could be handled in mini-sessions, with a person or two moderating each session.

Ken Wheeler and Ken Lombardi, who own Henry Wallace's notes from some 20 years of surveying, would like to donate them to an institution which could store them and make them available to other surveyors. Sonoma State University seems like the best bet at this time. A committee chaired by

Bob Curtis to establish an equitable method of determining the value of old records for tax purposes was established. Anyone with any ideas along these lines please contact Bob before April 15th.

The 1978 Chapter Financial Statement was given. The next meeting is scheduled for February 21 at the offices of Mitchell & Heryford.

Mother Lode Chapter

Meeting of January 8—Programs for the coming year were discussed and the following were suggested: Jim Hardin on Parcel Map dedications; programming computers; E.D.M.'s; Old Timers night; various county department heads; Planning Department on E.I.R. forms; errors and omission insurance; the new County Administration Officer; Cartwright Aerial Services for a joint venture with the engineers or another chapter; meeting with other chapters and exchange views and ideas; invite attorney to speak on liens, collections and court cases; Ross Carkeet on original town sites; someone to speak on mining claims; an engineer on settlement and road grades and plans, etc.

It was decided that committees be set up to handle different items: California Council and C.L.S.A., to have more input and business meetings regarding more L.S. related problems; legislative committee for bills; entertainment for ourselves or with other chapters; liaison with developers, contractors, builders, realtors, engineers and others; political action for Survey Office, Planning Dept., Road Dept.,

(Continued on Page 24)



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LETTERS

(Continued from Page 8)

they have chosen. The letter labels any extracurricular project as less than "baccalaureate" or "professional" if it does not remain purely analytical in nature.

I am sure Mr. Mitchell is aware of the nature and quality of most of the senior projects completed by Fresno State students. Not only do these senior projects meet his letter's standards, but some reach levels of post-graduate work in my opinion.

This brings us to the letter's suggestions for student projects. Although these subjects are good areas needing research, the investigation of future applications of ground or satellite based laser ranging or Doppler positioning devices is somewhat advanced for an undergraduate level. This is not to say the project suggestions offered are not welcome, but it can be suspected that the real intention behind this letter was to discredit the activities of and the purpose for the C.L.S.A. Student Chapter at Fresno State. Whatever the intention, the nonrelated words and subject matter in the closing paragraph of the letter were used to promote emotionalism and tend to show a devious nature.

I sincerely feel that the activities of the C.S.U.F.-C.L.S.A. Student Chapter are worthwhile to both the students and the profession. The student is allowed to participate in the changes of the future which will directly affect his career. There is no conflict between these extracurricular projects and the baccalaureate level of learning. To the contrary, these activities should receive our support and recognition.

Sincerely,
Wayne G. Strong
C.S.U.F. S&P Graduate
(Survey Party Chief)

Dear Mr. McKissick:

Subject: "Response to Fresno State Student Chapter Report," *The California Surveyor*, Winter Edition, No. 53

Mr. Richard J. Mitchell's article showed very little understanding of the surveying students at California State University, Fresno (not Fresno State).

I was so shocked at the short sightedness of Mr. Mitchell's article that I immediately telephoned him to discuss his views.

Later I decided to write this letter to express my feelings, as Mr. Mitchell

had done, to the whole CLSA membership.

Mr. Mitchell states that "Of the six projects, several appeal to me as a reinvention of the wheel or as adventures into the mundane." These are undergraduate students learning the fundamentals of surveying (see Summer Edition, No. 51) not doctoral candidates exploring the fringes of surveying knowledge and practice.

Mr. Mitchell felt that these six projects were "far less than baccalaureate or professional level projects." Though these projects do not meet the extreme requirements set by Mr. Mitchell for *himself*, Mr. Ronald C. Greenwell's article "Water Boundary Control in California," which appears in the same edition of *The California Surveyor*, is a CSUF Senior Project and is an excellent example of the professional work done by many CSUF students.

Mr. Mitchell seems to believe that our profession would be better served by technical and analytical projects (of those projects he lists, most have been started by federal agencies at great expense and technical reports *are* available to document their research) rather than by students spending their

(Continued on Page 23)

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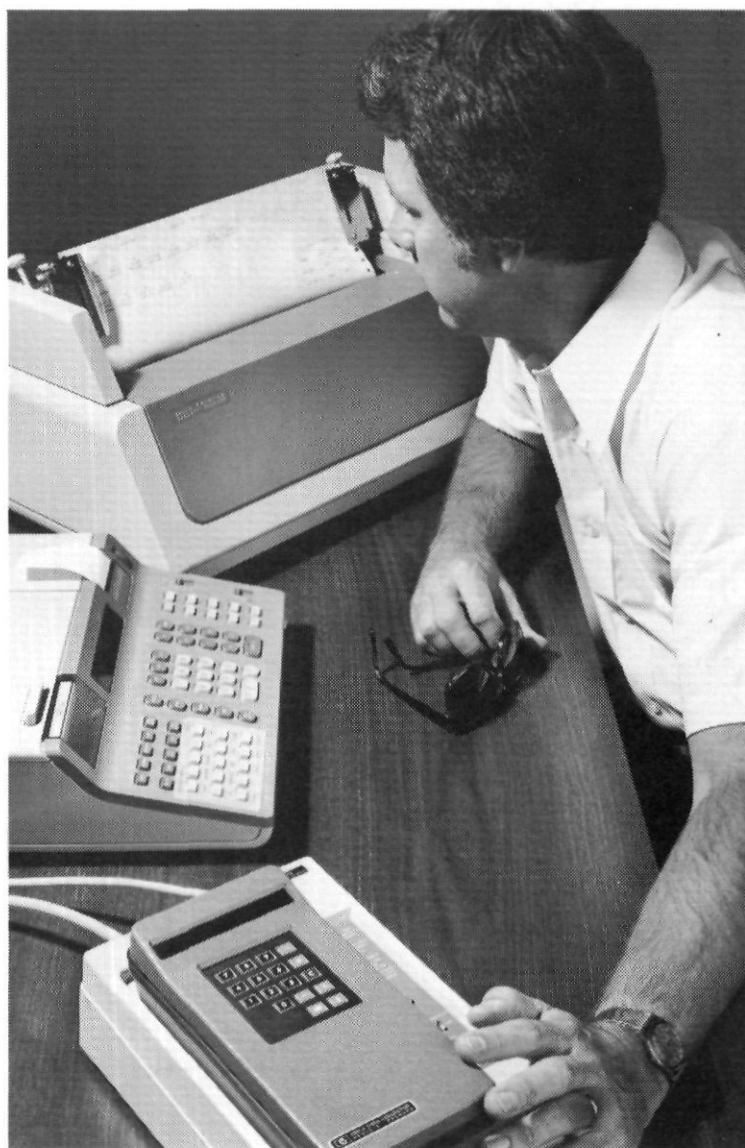
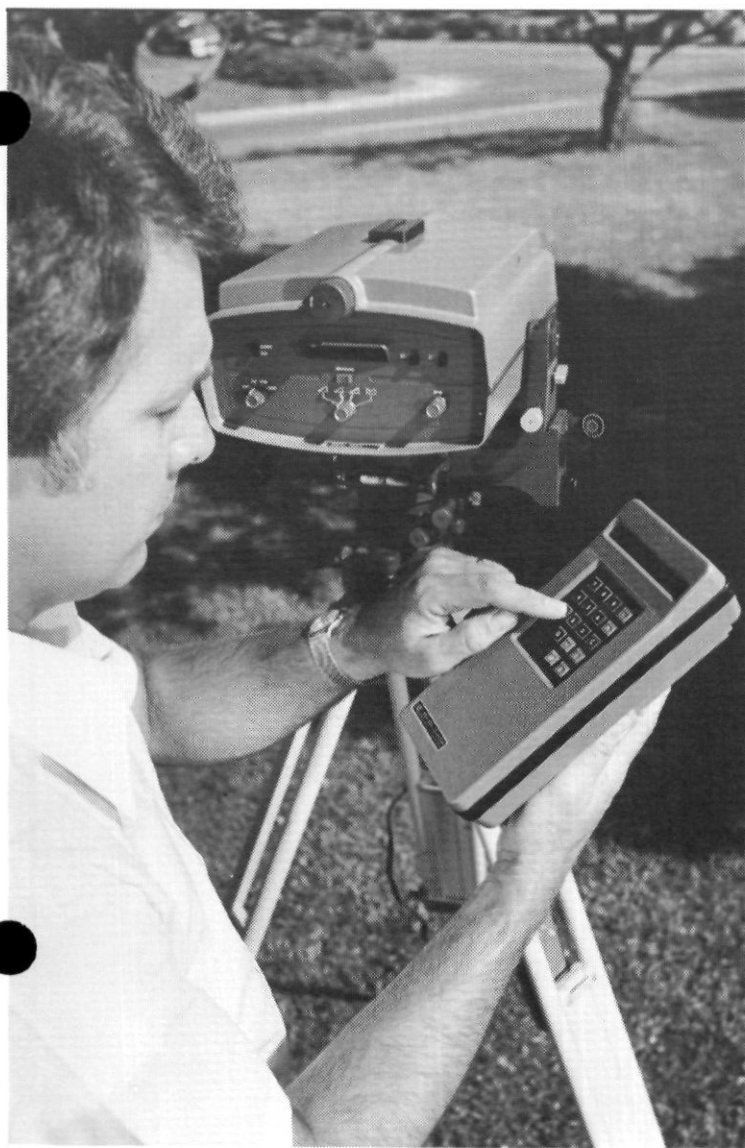
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News from the Board of Registration

The following fee changes, effective April 1, 1979, have been filed with the Secretary of State by the Board of Registration.

(1) Amends Section 407 in Chapter 5 to read:

407. Fees. (a) All fees required by provisions of the code and rules of the board shall be transmitted by money order, bank draft or check, payable to the Department of Consumer Affairs, at Sacramento.

(b) The following is the prescribed application fee for:

- (1) Authority to use the title "structural engineer" \$75
- (2) Registration as a professional engineer. \$60
- (3) License as a land surveyor \$60
- (4) Authority to use the title "consulting engineer" pursuant to Section 6732.2 \$60
- (5) Certification as an engineer-in-training \$40
- (6) Certification as a land surveyor-in-training \$40

(c) The following is the prescribed

four-year renewal fee for:

- (1) Authority to use the title "structural engineer" \$18
- (2) Registration as a professional engineer. \$18
- (3) License as a land surveyor \$18
- (4) License as a photogrammetric surveyor \$18
- (5) Authority to use the title "consulting engineer" pursuant to Sections 6732.1 and 6732.2 \$18

Such four-year renewal fees shall become effective on May 1, 1979.

(d) Fees required under provisions of this rule transmitted through the United States mail shall be deemed filed on the date shown by the post office cancellation mark stamped on the envelope containing it, or on the date mailed if satisfactory proof is made that mailing occurred on an earlier date.

(e) Renewal applications filed with the Sacramento office more than thirty (30) days after 12 p.m., on the expiration date and not accompanied by the

prescribed delinquent penalty fee equal to 50% of the renewal fee shall be returned by the executive secretary with a statement of the reason therefor.

(f) Refund of fees submitted to the board shall be made only as follows:

(1) Any fee or penalties imposed and collected illegally, by mistake, inadvertence or error shall be refunded in full.

(2) An applicant for registration as a professional engineer, for license as a Land Surveyor, for permission to use the title "Structural Engineer," for certification as an Engineer-in-Training, or for certification as a Land Surveyor-in-Training found not eligible for admission to the examination requested may have one-half of his application fee refunded.

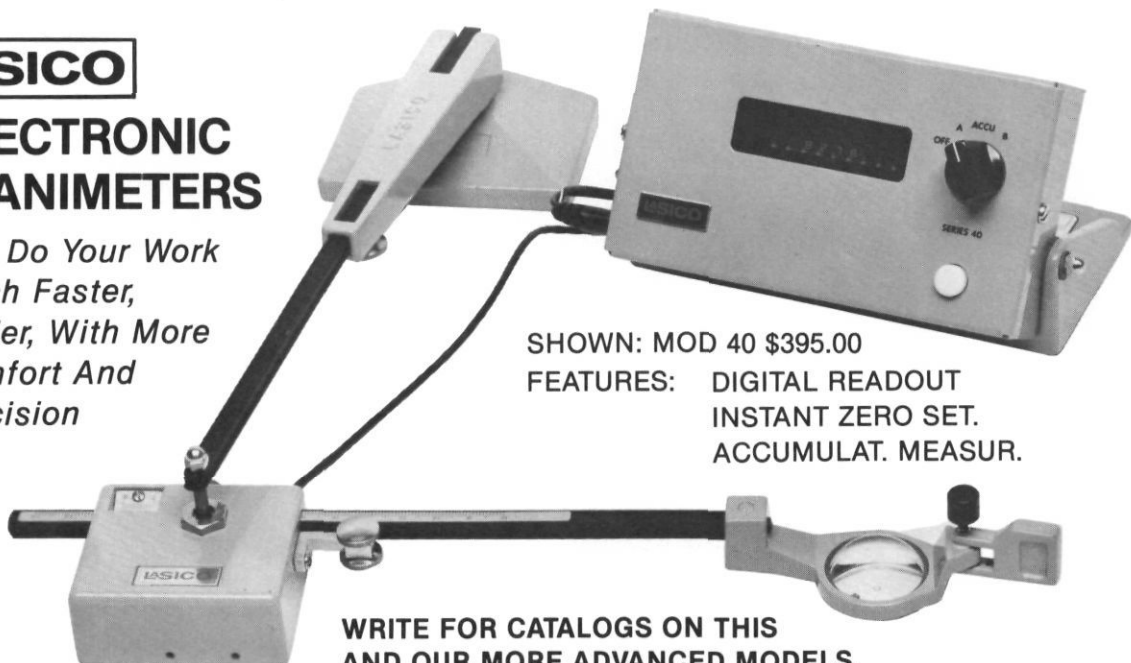
NOTE: Authority cited: Sections 6716, 8710 and 8805 of the Business and Professions Code.

Reference cited: Sections 6799 and 8805 of the Business and Professions Code.

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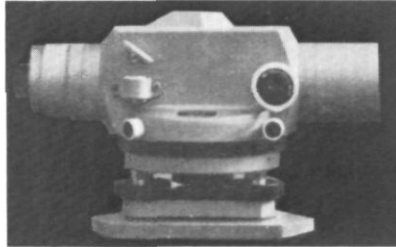
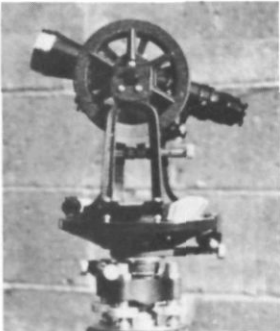
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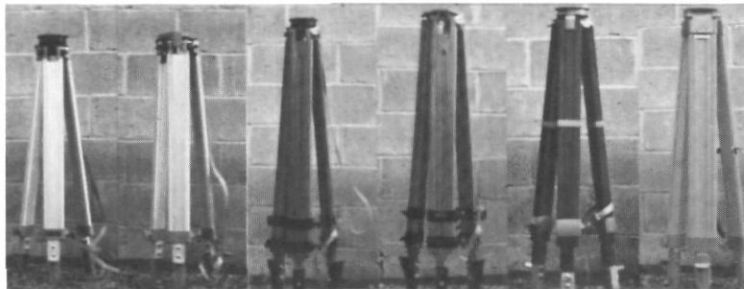
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Education

PROGRAM OF PROFESSIONAL DEVELOPMENT

The California Land Surveyors Association (CLSA) has strenuously proclaimed that there is a need of continued education in the Land Surveying profession. In order to encourage its own members to improve their professional abilities through continuing education, CLSA is hereby instituting a Program of Professional Development.

The Program shall consist of a system of recording the number of hours each year that a CLSA member devotes to keeping him/herself educationally updated through work, participation in professional society functions, seminars, formal and informal classes, the writing of papers or books pertinent to the profession, and other activities approved by a supervisory committee.

This program is *voluntary* and shall not in any way be interpreted as a gauge of an individual member's good standing within CLSA nor of the member's competence as a surveyor.

The Program of Professional Development (PPD) shall be administered by a Committee of three CLSA members, at least two of whom shall be Corporate Members. The Chairman of the PPD Committee shall be the chairman of the CLSA Education Committee.

The PPD Committee shall meet once a year during January, and at other times as necessary, to review the PPD activities of the previous year, to formulate guidelines for operating the Program, and to establish the current year's program.

Because some educational achievements are not readily measured in hours, the unit of measuring all PPD activities shall be the Professional Development Unit or PDU. The PPD Committee shall have the responsibility and authority of defining the number of PDUs to be assigned to each activity.

The California Land Surveyors Association shall also award and keep records of Continuing Education Units (CEU) for CLSA-sponsored activities which meet the requirements of the National University Extension Association. One CEU is defined as, "ten contact hours of participation in an

organized continuing education experience under responsible sponsorship, capable direction and qualified instruction." The criteria for awarding CEUs shall be as explained by the National University Extension Association in their publication "The Continuing Education Unit" (Washington, D.C., 1974), including revisions thereto.

Since the PPD is a voluntary program, any member of CLSA who wishes to participate must take the initiative to inform the Committee of how and when units were earned and make a request that the units be recorded. When the Committee has determined that the member's activity has met the criteria of a PDU or CEU, the number of earned units shall be entered on a record which will be kept at CLSA headquarters.

The PPD Committee shall provide a participating member with the total of his/her recorded PDUs and/or CEUs whenever requested by said member.

Upon request by a member participating in the Program, an officer of CLSA shall provide a letter of reference for the member which shall explain the meaning of a PDU and a CEU and how they indicate the degree of the member's educational updating. This letter of reference may be utilized for job applications, or as part of the member's application to the State Board of Registration for licensing, among other things.

The Committee has the responsibility of promoting this Program of Professional Development and the PDU system. However, should another similar program be developed or required, the Committee shall devise a conversion factor so that previously earned PDUs may be incorporated in the dominate system.

Should conflicts arise which cannot be resolved within the Program, the CLSA Board of Directors shall act as an arbitrator.

It is the opinion of the CLSA Board of Directors that a professional surveyor who is demonstrating good educational updating should be able to achieve 30 PDUs in a year. No achievement level is suggested for completing CEUs.

During the first year of operation of this Program, PDU's and CEU's will be earned by participation in activities given in Table I.

(Continued on Page 25)

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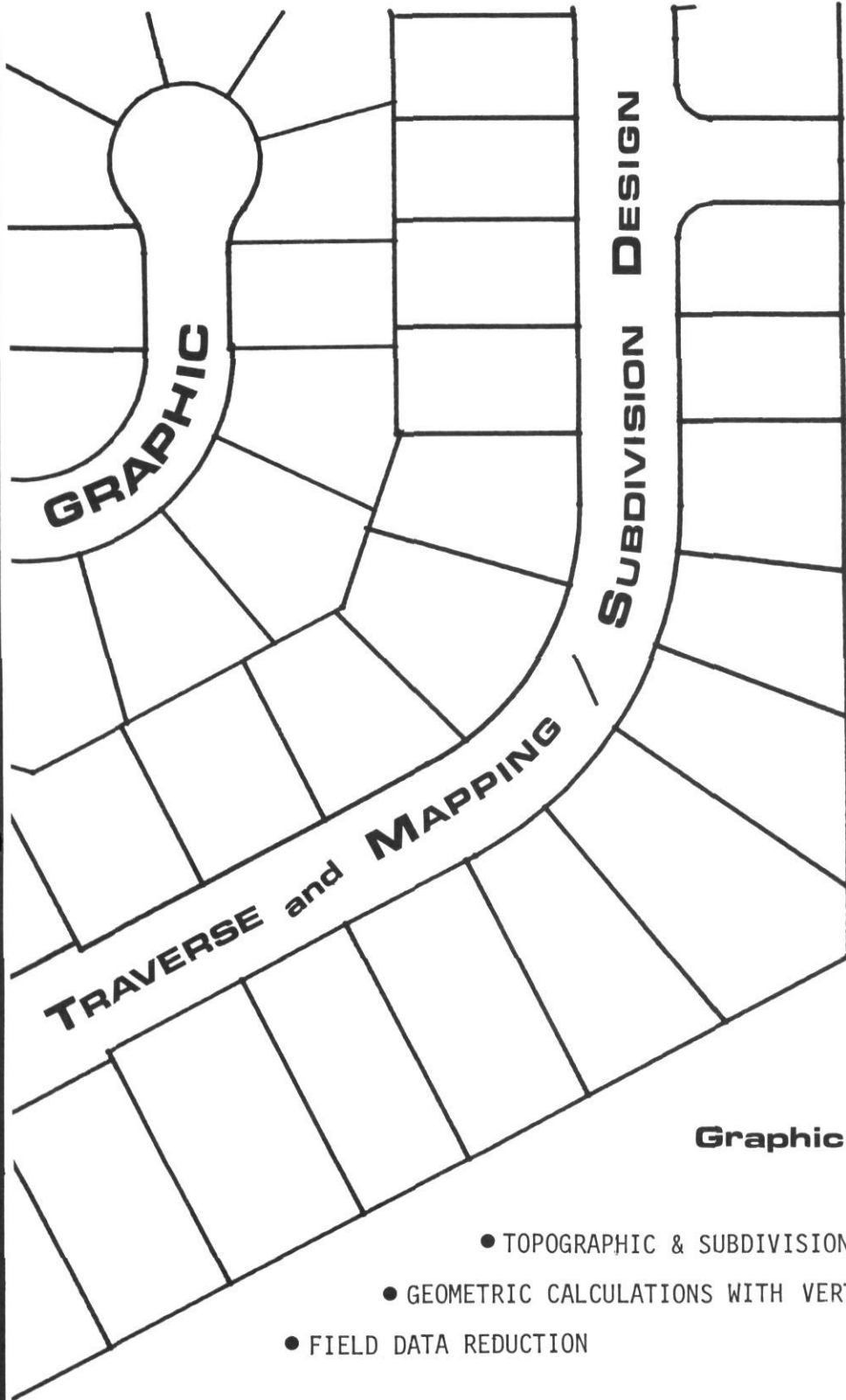


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New Members

sented to the floor of the legislature. We must educate the committee on why the exemption should be abolished. To insure passage of the bill all C.L.S.A. members must take part in the effort. As soon as the names of the members are available it will be sent to chapter secretaries.

We are presently compiling statistics from NCEE and other sources. By deduction and recent changes, such as Oregon's Separation Act, we feel that at least 47 states have separation. Out of those 47 states 11 have separate boards.

The civil engineer wishing to practice land surveying should be willing to prove his competency. The licensed land surveyor must meet requirements in education, experience, and examination specifically designed to prove he is capable and competent to practice land surveying. No such requirements bind the registered civil engineer. ▲

New Members—Final Quarter, 1978

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David Justin Slawson
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Richard Vincent Strautman
Richard Charles Chumbley
Paul David Barton
William F. McKinney
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STUDENT

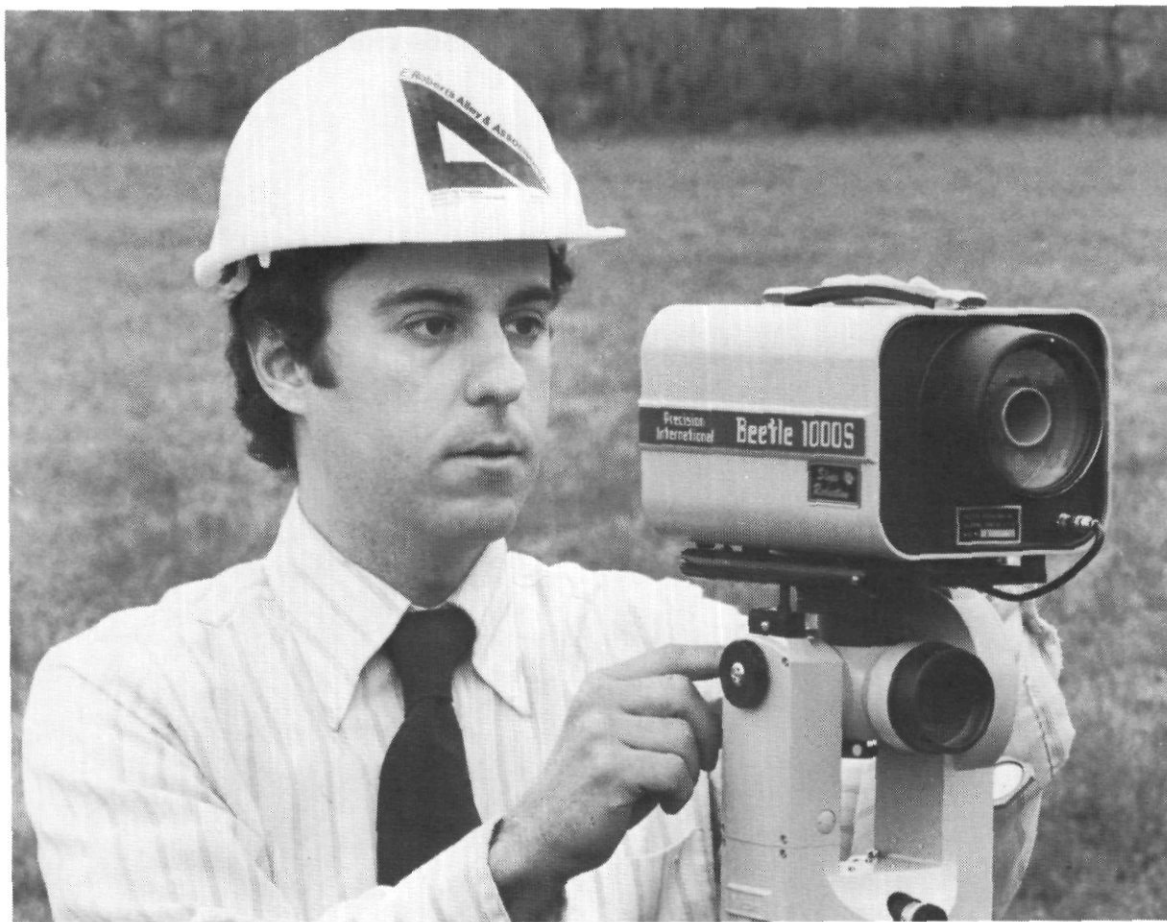
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Report from the Capitol

The Legislative committee had its organization meeting January 27, 1979 at the Grosvenor Inn in South San Francisco, concurrently with the CLSA Board meeting. Several bills were reviewed and positions formed. From all appearances this will be a very active year legislatively for CLSA.

Senate Bill 2 (Greene) will be CLSA's bill to eliminate the exception for future Civil Engineers to practice Land Surveying. It will contain a clause that will allow anyone presently registered as a civil engineer the right to acquire a land surveyors license. The bill is being drafted and will be submitted as soon as possible. The California Council of Civil Engineers and Land Surveyors is also preparing a similar bill which will include a definition of construction surveying. Your committee obviously will follow both of these bills and keep the membership informed as to their status.

The committee has taken an opposition position on SB 69 which would allow county surveyors to charge a checking fee for Record of Survey maps. This bill emanates from Riverside County where a large number of "waivers" of the requirement to file Parcel Maps have been granted on small parcel lot divisions and a Record of Survey Map has been filed on the new divisions. The committee feels this is a local problem and could be best solved by enacting a local ordinance to curb the "waivers" and complete the lot divisions with a Parcel Map as the Subdivision Map Act intended. We will be contacting chapter secretaries with more specific information on desired action when it is available.

Please feel free to contact me at the following address should you have any questions or comments.

Michael K. Welch
506 E. Chapel Street
Santa Maria, CA 93454
(805) 925-2701

This list is for committee purposes and committee members have the Bills. Should anyone else desire amplification please contact a committee member or copies of these measures may be obtained by requesting them

by writing to the Legislative Bill Room, State Capitol, Sacramento, CA 95814. You are entitled to one copy of each measure free. It will be sent to you 3rd class mail. ▲

BILL STATUS REPORT

BILL NUMBER	DESCRIPTION	ACTION
SB 67 (Alquist)	Construction Inspectors Registration & Repeal Date	Follow
SB 69 (Presley)	Would allow County Surveyor to charge map checking fees for Record of Survey Maps	Oppose
SB 131 (Holmdahl)	Local Agency Reasonable Fees	Support
SB 142 (Marks)	Acq. of State Property	Follow
SB 158 (Nimmo)	Coastal Zone—City of Marina	Support
SB 159 (Nimmo)	Coastal Resources Parking Facilities	Follow
SB 160 (Nimmo)	Coastal Resources Trees in City Limits	Follow
SB 175 (Cusanovich)	Coastal Act Clarities	Support
SB 215 (Nejedly)	Coastal Zone Boundary City of Los Angeles	Follow
AB 13 (Papan)	Coastal Zone in Los Angeles Limit 1000 Yds.	Support
AB 69 (Lockyer)	Consumer Affairs—Selection of Secretary for Boards	Oppose
AB 117 (Levine)	Coastal Act Permits	Follow
AB 149 (Stirling)	Statute of Limitations Defective Products	Follow
AB 194 (Torres)	Small Claims Cross Ref. (clean up)	Follow
AB 226 (Chappie)	Fees for County Clerk	Follow
AB 250 (Lockyer)	License Fee's Renewal Dates	Follow
AB 263 (Hart)	Condominium Conversion Exemptions to Subdivision Map Act.	Follow

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1. *Shore and Sea Boundaries* (1962)
Reprint 1975—Aaron L. Shalowitz, U.S. Department of Commerce Publication No. 10-1

Vol. II—The Interpretation and Use of U.S. Coast and Geodetic Survey Data \$11.95 ea.

2. *Tide and Current Glossary*—U.S. Department of Commerce, N.O.A.A.—National Ocean Survey (1949) Revised 1975. Special Publication No. 228. \$ 0.75 ea.

3. *Proceedings; Water and Water Related Boundaries Workshop II, May 20 & 21, 1977, Irvine, CA* (262 pages)
CLSA Members . . . \$15.00 ea.
Non-Members . . . \$20.00 ea.

4. *Coastal Zone Map #TP-00189—Florida, Palm Beach County, Lantana to Boynton Beach—1:10,000 (1970)*

An extremely interesting map format which contains detailed printed instructions to Surveyors on How to Locate a Mean High Water Line According to Law, adopted by the Florida State Legislature. A real collector's item \$ 2.50 ea.

5. *Restoration of Lost or Obliterated Corners & Subdivision of Sections*—a guide for surveyors—United State Department of the Interior, Bureau of Land Management—1974 Edition. . .75 ea.

6. *Metric Practice Guide for Surveying and Mapping*—American Congress on Surveying and Mapping. This Metric Practice Guide has been prepared to aid those engaged in surveying and mapping in the use of the International System of Units (SI) in accordance with recommendations contained in the Metric Conversion Act of 1975, Public Law 94-168 1.50 ea.

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Santa Rosa, CA 95401

CALIFORNIA LAND SURVEYORS ASSOCIATION, INC.
P.O. Box 7400, Santa Rosa, CA 95401

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extracurricular time trying to develop an understanding of the legislative process, professional licensing, and the Civil Engineer/Land Surveyor relationship.

If Satellite Doppler research, inertial positioning, laser ranging, vertical angle leveling, and automated graphic systems are as vital as Mr. Mitchell "pro- pounds," maybe CLSA should re-examine its goals and redirect itself in other directions.

If, as I suspect, these subjects were mentioned solely to *drop names*, I question the very nature of Mr. Mitchell's letter.

With consumer awareness and "Sun- set Laws" challenging our very profes- sional existence, surveying is at a crossroads, technical/professional. Ed- ucation is the force that will carry us through these demanding times. CSUF needs the support of CLSA and its membership, not intellectual back- stabbing.

During my educational career at CSUF, I developed a strong technical background as well as a professional commitment to my work. This profes- sional commitment has remained with me since leaving school and is as im- portant to me today as any technical education received there.

At CSUF, I felt intimately involved in a dynamic profession. This was due largely to support of CLSA, and for that I want to thank you.

Sincerely,
Leroy K. Latta, Jr.
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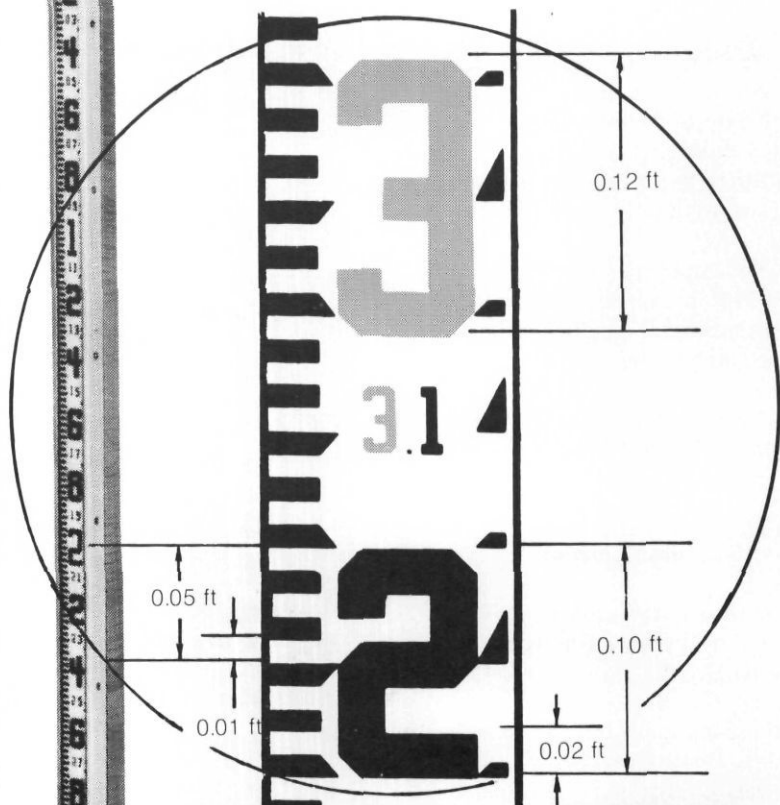
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CHAPTER NOTES

(Continued from Page 10)

etc.; education committee for contacting people in state colleges and having speakers to talk at each meeting on different subjects and a steering committee, to set up arrangements for the next month's meeting. The next meeting is scheduled for February 12.

Monterey Bay Chapter

The October, 1978 meeting was held at the Santa Cruz Hotel. The lack of attendance of Monterey County members at meetings was discussed and it was felt that this was due to the lack of programs at meetings. It was decided to ask the membership what they would like to see accomplished at the meetings.

A "student night" was discussed, along with the possibility of getting Mr. Fred Seiji to be the speaker.

Jim Pendergast reported on the latest efforts in getting the engineers exemption removed from the Land Surveyor's Act.

The November meeting was held at the Holiday Inn in Seaside. No specific business was conducted, but a video tape was shown by Bill Talmage of T.I.

The December meeting was scheduled for the Hotel Resetar in Watsonville.

San Diego Chapter

The meeting of October 18, 1978 had as guest speakers Gus Kamptner and Bernie DeSelm from County Map Processing. Gus led off with a talk about the common pitfalls on subdivision maps. Particularly the title sheet and the various requirements of resolution. Bernie followed with a brief talk on parcel map checking procedure. A lengthy and lively question and answer session followed.

Lou Hall read a letter from the Board of Registration regarding penalties for infractions of the state laws and a letter of response from the League of Southern California Surveying Organizations.

He also reported on the "One stop service" concept combining portions of County D.O.T. and L.U.E.R. There were some negative comments from Bill Karn and the floor. A motion by Keith Klage that we write a letter advocating placing L.U.E.R. under D.O.T. instead was seconded and passed.

The November meeting was held on the 15th at Torrey Pines Inn.

Our guest speaker, Jennings Morton of the County Map Records office, presented a general overview of the variety of records his office has available and then discussed several types of special records and additional information that is available but not often used. Jennings answered many questions from the floor following his presentation.

Chuck Moore reported on the State Board of Directions meeting. He spoke of the incoming officers and delegates-at-large. At Orange County on 19 May 1979 there will be a legal workshop. Details to come. It was suggested we donate \$100.00 to the Western States Regional Conference (our annual convention) for the support of Fresno State students attendance. A motion was passed to send a check.

Lou Hall brought us up to date on current legislation concerning land surveying.

The January meeting was scheduled to be held at LaPaloma Restaurant on the 26th.

Santa Clara-San Mateo Chapter

December Meeting—Jim Foulk gave a report on Senate Bill 2. At this time, the California Council is hedging on supporting the new L.S. law. Jim recommends we try and get our bill out to the public such as through the newspapers, T.V., and radio. At this time we should write our State Senators and Assemblymen in support of S.B. 2.

Election of new officers for 1979 was held.

Meeting of January 18—Senate Bill 2 has been changed around and is to be resubmitted in its new form to the State Senate.

A \$75.00 contribution was approved for a deserving student to attend the Western States Conference at Lake Tahoe.

A bill has been introduced in the State Senate to charge for checking records of survey. A motion was made and seconded to oppose this bill.

It was suggested we check into the possibility of having a Yellow Pages listing similar to California Council of C.E. and L.S. on page 376 of San Mateo County book. The cost would be \$31.10 per month. This amount would cover the information heading down to and including "For Information Call." Each person listed pays for

their own listing at \$1.50 per month. The book containing listing would not be out until April 1980.

Our guest speakers for the January meeting were Ron Hatch and Dou Robins of Magnavox. They gave a demonstration of their new Satellite Surveyor. A satellite passed overhead during their talk and took input. This new piece of equipment seems to have great possibilities.

Lake-Mendocino Chapter

A meeting was held February 8 at the Lido in Ukiah where the following was discussed:

Upcoming Western Regional CLSA conference in Tahoe,

Mendocino County Moratorium on land divisions,

Progress of Grandfather Clause eliminating C.E. from surveying,

Discussion regarding persons turning in violations against other surveyors—also the role of State investigators in such violations,

Moonlighting (Sonoma County has gone to the Grand Jury),

Superfluous notes on Survey maps IE: Accuracy certificate used in Mendocino County,

Corner Records, and

Standardized checking procedures for survey maps as set by State Board Policy.

Orange County Chapter

The Chapter met January 24 at the Saddleback Wine Cellar to install new officers for 1979.

The featured speaker for the evening was Stan Etzen of the Small Business Administration. He is a volunteer administrator who specializes in helping the "little guys" get into business for themselves.

Central Coast Chapter

The January meeting was held on the 18th at Pea Soup Andersons in Buellton, where officers for 1979 were installed by Mike Welch, president of the State CLSA organization. There was also a discussion of the SLO COUNTY LOT SPLIT ORDINANCE.

Feather River/Northern Counties Chapter

A Ladies Night dinner was held December 9 at the Palomino Room in

(Continued on Back Page)

TABLE I
ACTIVITIES WHICH WILL EARN PDU OR CEU

ACTIVITY	PDU	CEU
Work		
Each 100 hours in field or office up to a maximum of 20 PDU per year	1	
Professional association activities		
1. Membership in surveying-related societies, such as ACSM, ASP, or CCCE&LS	1	
2. Each 2 hours of attendance at a CLSA chapter meeting	1	
3. Each 2 hours of attendance at a conference of a surveying-related society	1	
4. Each 10 hours of active service while holding title as an officer or committee chairperson in CLSA or kindred society	1	
5. Each 20 hours of voluntary work on government affairs related to surveying	1	
Seminars/Workshops		
1. Each 1 hour as active student or instructor in a workshop or seminar	1	0.1
2. Each 1 hour of educational activity programmed independently and held concurrently with a CLSA convention	1	0.1
Formal classes		
1. Student or teacher in a Quarter System. Each quarter	10	
2. Student or teacher in a Semester System. Each semester	15	
Educational papers		
Evaluated by the Committee. Maximum of	3	
Authoring books		
To be evaluated by the Committee. Maximum of	10	
Miscellaneous		
Each 1 hour of activity which meets the criteria of a CEU as defined by the National University Extension Association.	1	0.1

(Continued on Page 26)

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Tellurometer CA1000	35.00	700.00
Cubic DM-60 Cubitape	25.00	450.00
Cubic DM-20 Electrotape*	40.00	700.00
Wild DI-10 Distomat Mountable with T-7	20.00	300.00
Positioning Equipment:		
Motorola Mini-Ranger with two Coded Transponders* **	250.00	3,000.00
Each additional Mini-Ranger Transponder	50.00	500.00
Cubic DM-40 Autotape	200.00	3,000.00
Cubic DM-40 Autotape, Modified	300.00	4,500.00
Printer for Autotape	15.00	150.00
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Wild T-3 Theodolite (.2" direct reading)	35.00	600.00
Lietz B-1 Engineers Automatic Level	6.00	100.00
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Zeiss Ni2 Level	15.00	150.00
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Raytheon DE-719 Recording Fathometer*	25.00	500.00
Raytheon 723 Precision Survey Fathometer* accuracy .25 pct. to 250 fathoms	50.00	600.00
Raytheon DSF-600 Deepwater Fathometer	200.00	2,000.00
EG&G Mark 1-B Side Scan Sonar* **	500.00	4,000.00
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(Continued from Page 25)

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by C. A. Wooldridge, Chairman
ACSM-CLSA
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The first in a series of one day legal seminars, co-sponsored by CLSA and the Southern and Northern California Sections of the American Congress on Surveying and Mapping will be offered this spring. The same program will be offered twice, once in each half of the state.

Saturday, May 12, the program will be presented at the Registry Hotel at Orange County Airport, 18800 MacArthur Blvd., Irvine, CA 92715 (phone 714/752-8777). It will be repeated Saturday, June 2 at Grosvenor Airport Inn at San Francisco Airport, 380 South Airport Blvd., South San Francisco, 94080 (phone 415/873-3200).

This legal seminar series is aimed at the licensed land surveyor with several years practice rather than the newcomer or examinee. As a first day introduction to the series, the topic will be Real Property Law and the Land Surveyor, covering such subjects as the nature of title, acquisition and transfers, and easement rights.

COLLYER CHURCH, Senior Division Counselor with Title Insurance and Trust Company in Los Angeles

will share the podium with RYAN POLSTRA, attorney at law and instructor in Real Property Law at American River College in Sacramento. There is probably no question regarding real property law that one of these two learned gentlemen can't answer, even if it must end with the favorite standby of William C. Wattles, "But the contrary may be shown."

Attendance will be limited to 100 at each presentation, on a first come, first served basis. When the limit of 100 is reached, there will be no more accepted, to be fair to attendees and permit time for registrant participation. Final date for *either* session is April 28, so get your application in now! Please feel free to call Chuck Moore (phone 714/565-5720) or Chuck Wooldridge (phone 408/297-8273) if you have questions regarding the first offering, or the coming series.

Future offerings are scheduled to include in-depth studies of such topics as Rights and Encumbrances, Rights-of-Way, Adverse Possession, Research, The Surveyor In Court, Liability, Subdivision Map Act, Business Principles, Land Development, Sectionalized Land, Government Agency Contract Surveying, Client Contracts and Bidding.

Mail application with \$50.00 registration fee (includes lunch) before April 28 to: ACSM/CLSA Legal Seminar, P.O. Box 7400, San Rafael, CA 95401. ▲

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I am willing to attend the other session if space is not available.

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CHAPTER NOTES

(Continued from Page 24)

Red Bluff at which officers for 1979 were installed. Prior to the dinner, Mr. & Mrs. Ken Burton held an open house.

San Bernardino-Riverside Chapter

The October meeting was held on the 12th at Safeco Title Insurance Co. in San Bernardino.

Bill Plummer informed the Chapter that Senate Bill 1 would grandfather Civil Engineers as Licensed Land Surveyors upon application until January 1, 1981.

There was a discussion of the possibility of the chapter holding seminars to increase members' skills.

The November meeting was held at the Cask & Cleaver in Riverside to nominate officers for 1979.

The Chapter's annual Dinner Dance was held December 8 at the Rivera Hotel in Palm Springs.

East Bay Chapter

The Chapter's February meeting was held at Serb's Restaurant in Albany. Fred Seiji, L.S. member of the Board of Registration, gave a timely talk about the makeup of the Board, the possibility of "Sunset Laws" ending the Board's existence, examinations for licensing, and a variety of other important matters. ▲

PRESIDENT'S MESSAGE

(Continued from Page 6)

cludes maintaining liaison between the Chapters, between other State associations, and the American Congress on Surveying and Mapping. Dorothy also maintains the mailing list for the *Surveyor*. This mailing list is about 2 years ahead of the mailing list of the Board of Registration. Also, functions of the Santa Rosa office include paying bills, collecting dues, typing, other activities connected with our quarterly Board of Directors meetings, and much more.

Not to be outdone by the groups who do give away things, there are some financial benefits to belonging to CLSA. We have available a bill collection service from I.C. Systems. They have a series of letters which will be sent to any of your clients who are delinquent in their payments, and this service in the past has been very effective in reducing a surveyor's accounts receivable.

Another very valuable service available pertains to safety glasses. To take advantage of the service, simply call Santa Rosa before you have an eye examination for the special blank. After your optician or ophthalmologist completes the form, it is returned to Santa Rosa with your check. The safety glasses are mailed to your optometrist who then fits them. The cost of safety glasses is roughly one quarter to one third the cost you would expect to pay for ordinary glasses.

An additional service which we are actively pursuing is insurance, includ-

ing health, life and professional liability. We expect to have information on this in the next month or two. The answer has become clear—you should belong to CLSA because you are a professional and it may be of financial benefit to you. ▲

ADVERTISER'S INDEX

	Page No.
Allied Surveyor Supplies	10
AGA	7
Brunson Instrument Co.	11
California Land Title	12
C&R Manufacturing	6
Electro-Dist. & Assoc.	8
Electronic Survey Rentals	25
Engineering Computer Services	18
Engineering Services Co.	3
Forestry Suppliers	6
Hadco Instruments	22
Hewlett-Packard	13
Industrial Pipe & Steel Co.	21
Kern Instruments, Inc.	9
LGB	17
Lewis & Lewis	5 & 8
Los Angeles Scientific Instrument Co.	14
Ogden Surveying Equipment Co.	4
Sacramento Surveyors Supply	15
SECO Surveying Equipment, Inc.	19
Sierra Cybernetics	22
Surveyors Service Co.	23
Swiss Precision Instruments	16
Warren-Knight Co.	4

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