



Institutional Affiliate of American
Congress on Surveying and
Mapping

The California Surveyor

THE VOICE OF THE LAND SURVEYORS OF CALIFORNIA

No. 22

CONVENTION – SPECIAL EDITION

1972

GRANT DEED

For value received "TAHOE 72", C.L.S.A., et al
GRANT to ALL LAND SURVEYORS, et ux

All that certain convention entitled "Tahoe 72" to be held March 16 through 18, 1972, at the Sahara Tahoe Hotel, Stateline, Nevada, described as follows:

Commencing with check-in, as per Exhibit "D", beginning at 1:00 p.m. Thursday, March 16, and terminating with check-out Sunday, March 19; thence, from said Point of Beginning along a squiggly line, more or less, to a "Sahara Punch" party, hosted by the Tahoe Chapter, the never-before-mentioned parties of the first part, at 7:00 p.m., Thursday evening; thence, to the True Point of Beginning, said True Point of Beginning is further described as the Welcoming Address by Donald L. Clark, Director of the South Lake Tahoe Chamber of Commerce, at 9:00 a.m., Friday, March 17; thence to Friday morning's speakers, more particularly described in Part "A" of Exhibit "B" attached hereto and made a part hereof; thence, to lunch with our ladies, see Exhibit "C", who have spent Friday morning enjoying Lake Tahoe and watching a forty (40) minute gaming film provided by the Sahara Tahoe; said Friday lunch is further described as an Encounter with our Environment, as told by James A. Roberts, Ph.D., Vice-President, Murray-McCormick Environmental Planning & Design; thence, proceeding into the afternoon's speakers as described in Part "B" of above-mentioned Exhibit "B," temporarily terminating at 5:00 p.m.; thence, proceeding to the High Sierra Theater, where dinner show reservations have been made, for dinner and "The Carpenters" stage show; thence, gathering at 8:30 a.m. Saturday for a "Fizz Wake-up;" thence, reconvening at 9:00 a.m. and proceeding into Part "C" of said Exhibit "B"; thence, to lunch, which will be served buffet style, while the ladies are sitting down to eat at the Delta Hotel in Virginia City where they will be treated to a presentation by Wes and Sandy Jonsen, representatives of the Shaklee Corporation, distributors of organic cosmetics; thence, regrouping to complete the planned convention activities with Part "D" of said Exhibit "B" which shall terminate and adjourn at 5:00 p.m. Saturday, March 18, 1972.

The conventioners are now on their own to spend the rest of the weekend enjoying Lake Tahoe and the many diversions it provides.

RESERVING THEREFROM, at the times indicated in said Exhibit "B" free and easy access to the record number of products and services to be demonstrated, as described in Exhibit "A" attached hereto and made a part hereof, together with refreshments, again provided by the once-before-mentioned Tahoe Chapter. ▲

**C.L.S.A. CONVENTION
MARCH 16-18, 1972**

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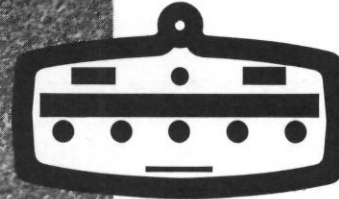
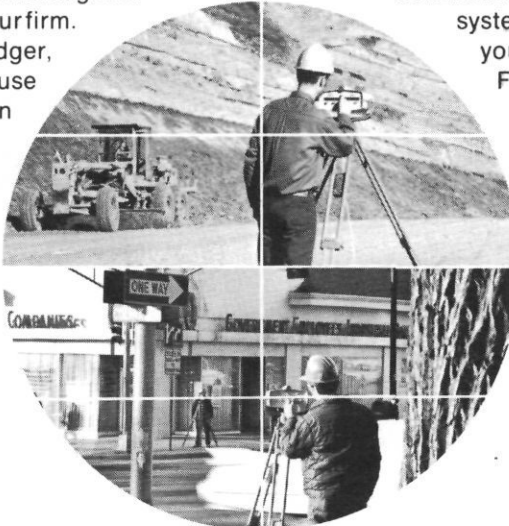
In the field or in your business ledger, you'll appreciate the fast, easy-to-use 3800. Just one quick demonstration and you and your crew are ready to go. Dial in the environmental factors, make the measurement, then *read the result directly in feet* (or

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For further information on services and products for surveyors, or for a "hands-on" demonstration of the 3800 Distance Meter, write: Hewlett-Packard, P.O. Box 301, Loveland, Colorado 80537.

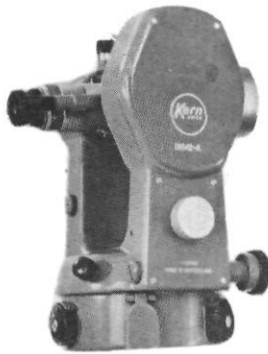


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Diameter of vertical circle	70 mm
Circle reading, direct	2 ^{cc} /1"
Circle reading, by estimation	0.5 ^{cc} /0.1"
Sensitivity of plate level	20"/2 mm
Focusing range of optical plummet	2.2 ft. - ∞ (0.7 m - ∞)
Compensator range	± 2 ^c /1'
Compensator precision, better than	± 1 ^{cc} /0.3"
Compensator adjustment time, approximately	3 seconds
Height of vertical axis	6.7 in. (171 mm)
Weight of instrument	13.7 lbs. (6.2 kg)
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Dimensions of carrying case	11.8×4.7×8.3 in. (30×12×21 cm)

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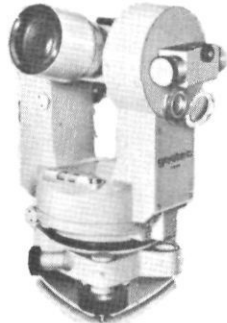
Coarse and fine circle orientation

Two-speed azimuth tangent screw

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PRE - INVENTORY SALE OF GEOTEC MODELS TH 32 and AL 21

TH-32



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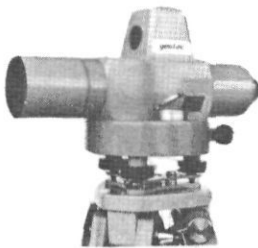
geotec

with self-indexing. Employs special bearings in its automatic compensator for trouble-free operation.

Both the horizontal and vertical circles are made of optical glass for increased accuracy. A self-indexing device is employed for maximum ease of reading and minimum personal difference in readings. The conventional telescope spirit levels are replaced by an automatic compensator to permit instantaneous and accurate measurement of vertical angles. Many other features are incorporated to make the TH-32 a Theodolite with unmatched accuracy and ease of use.

Telescope Type:	Internal focusing, anallactic optics
Image:	Erect
Magnification:	25 X
Minimum focus:	5 feet
Stadia:	Ratio, 1:100; additional constant, 0
Plate Level sensitivity:	45" per 2mm
Graduation of Circle:	20" - Estimation to 5"

AL 21



\$ 395.00

The most dependable automatic level with a specially designed self-indexing compensator.

The AL-21 is known for error-free performance. Once its circular level is set up, the instrument levels itself to allow easy and quick surveying operation. This error-free performance has earned GEOTEC'S automatic level an excellent reputation.

Self-indexing compensator is fitted with a special bearing to assure trouble-free, error-free operation.

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Wide automatic range (range of compensation '10') permits maximum ease of setting up.

Tangent screw is provided with knobs on both sides for simple, easy, efficient operation.

Telescope Type:	Internal focusing, anallactic optics
Image:	Erect
Magnification:	30X
Minimum focus:	5 feet
Stadia:	Ratio, 1:100; additional constant, 0
Circular spirit level sensitivity:	15" per 2mm
Range of automatic compensation:	'10'

All Geotec instruments use tripods with standard 5/8 x 11 Thread

For more information and literature please contact:



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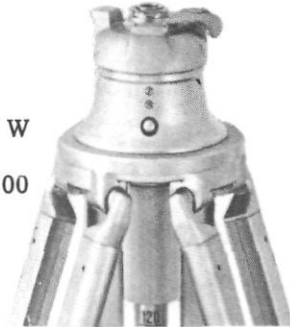
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EXHIBIT "D"

OFFICIAL REGISTRATION BLANK

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No. Attend. Convention _____ Wife's Name (or friend) _____

Registration Fee	\$10.00 (C.L.S.A. Member)	_____	_____
Registration Fee	\$15.00 (non-member)	_____	_____
Registration Fee	\$ 1.00 (Student)	_____	_____
Friday Luncheon	\$ 4.00	_____	_____
Friday Dinner Show (The Carpenter's)			
Choice of:			
Breast of Young Caponette Cordon Bleu	\$10.50	_____	_____
Roast Prime Rib of Beef Au Jus	\$13.00	_____	_____
Ramos Fizz wake-up All you can drink in 1/2 hour	\$ 2.00	_____	_____
Saturday Luncheon Buffet	\$ 4.50	_____	_____
Women's Virginia City Bus Tour, (includes lunch & cocktail)	\$ 7.50	_____	_____

Total Enclosed _____

*All prices shown include taxes and tips

The following Credit Cards are accepted at the Sahara-Tahoe Hotel:

American Express – Del Webb Hotel Card – BankAmericard – Carte Blanche – Master Charge

Checks payable to Tahoe Chapter C.L.S.A. – Mail To: Ben Isborn, P.O. Box 879, Tahoe City, CA 95730

We Plan To Attend:

CALIFORNIA LAND SURVEYORS ASSN.

MARCH 16 - 19, 1972

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(plus 5% Douglas County Room Tax)

Deposit of First Nights Room Rate Is Required If Arriving After 4 P.M.
This Reservation Must Be Received 14 Days Prior To Arrival Date.

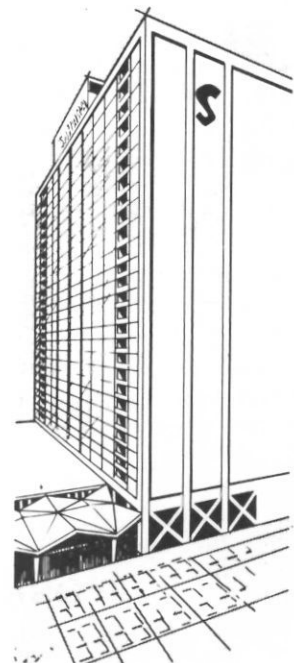
Arrival Date	Time	Departure Date	Total Number of Persons

NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP NO. _____

Check Out Time Is 12 Noon Check In Time Is After 2 P.M.



A SURVEYOR'S OBLIGATIONS

Gene Lafferty, L.S.

I believe that every land surveyor has an obligation to himself, to his profession and to the public and it is only by meeting this obligation that he will be accepted as a professional. First, he is obligated to serve the public with competency in exchange for the trust placed in him as a licensed person. Second, he is obligated to his profession to repay the prestige and knowledge which he gains from the efforts of others in his fellowship. Third, he has an obligation to himself to raise his own level of competency and professionalism to ensure his own personal success and reputation.

It is not enough however that the individual surveyor is competent, knowledgeable and successful, although if he accomplishes these things it is also likely that he will attain a level of professionalism in the process. The professional surveyor should also encourage others within his field towards the same goals, and there is no better way of accomplishing these goals than through the fellowship of a professional society. This is the purpose that I see for the formation of a Chapter of the CLSA.

I would like to propose a format for a Chapter to accomplish some of these things and I would like to present it consistent with the idea of meeting the obligations which I have mentioned.

It is probably unnecessary to mention that when we accepted the title of Licensed Land Surveyor, that we also accepted the obligation of serving the public honestly and intelligently. It is evident that some practitioners of surveying have fallen short of that duty, at least judging from the incompetent surveys that we often run into. I would include in the group of possible offenders, unqualified civil engineers, a large number of unlicensed technicians from just about every kind of business and unfortunately an occasional licensed surveyor.

Several groups are at present trying to limit the practice of unqualified civil engineers who are doing boundary line work. A Chapter should support this legislation when it is up for hearing, and in the meantime we should vocally promote leaving land surveying to the land surveyor as a part of our program to protect the public.

As for the illegal practitioner of surveying, there has been regrettably a lack of enthusiasm by the Board of Registration to prosecute violators. Their policy at least locally is simply "don't make waves!". I believe that we should make big waves over any unqualified surveyors working in our area and I think that this can be justified by our obligation to the public. Many or perhaps most of us do not wish to individually become involved with complaints to the State Board of Registration, although most of us agree that something needs to be done. Such protests could be made by a local Chapter which would not only be more effective but would prevent the personal involvement of any particular member.

Next to better policing of our profession, I would suggest that better training of the people within the profession is the next important obligation. A formal training program is probably too ambitious at this time, but we should recognize that eventually an upgrading of the surveyor must incorporate upgrading of his knowledge and training. This will become necessary when the public demands greater competency from the surveyor who has at his disposal many new tools of

Continued on Page 7

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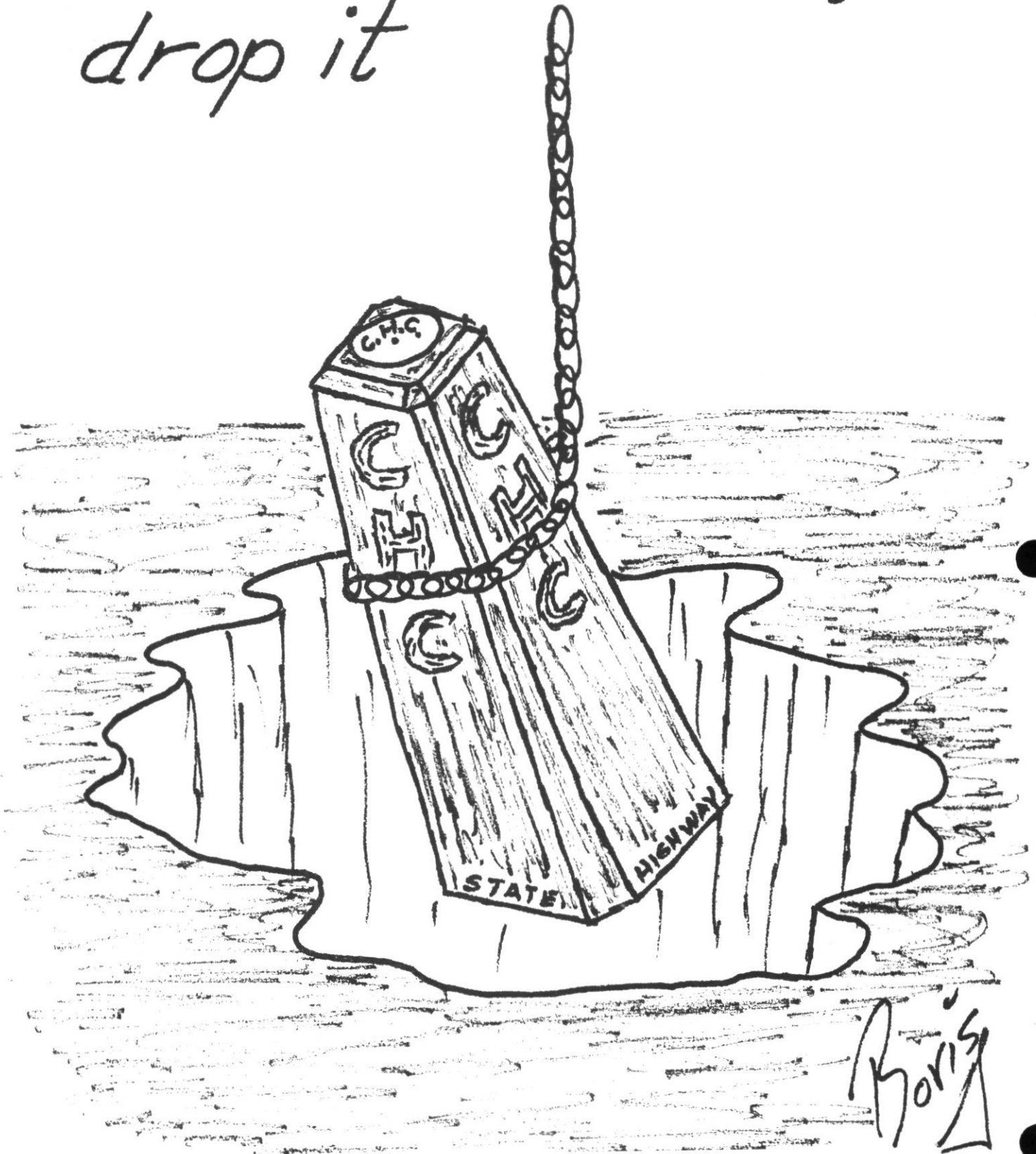
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measurement. However, we can work with our local colleges anyplace where there is a need for our special knowledge and experience.

Along this line of thinking about better trained surveyors, Professor Kulhan has issued a challenge to the Land Surveyors of California to tell him what we want his graduates to be taught to better fill our needs. This should be a subject that most of you have definite ideas about . . . or should.

While formal training may be beyond our abilities at present a Chapter could participate in training programs for those persons studying for the State LS examination locally. Incidentally the Apprenticeship Program of the Operating Engineers which trains field surveyors may be effective in this area in the near future, and the Chapter members should be able to provide some very expert instruction to these future field surveyors.

Although all licensed land surveyors have gained their title through their own experience, competency and education, which is to say through their own efforts, they also have an obligation to their chosen profession. By joining the fellowship of other surveyors they also share in the results of the effort by others to advance surveying and promote it's professional status. They also share in its fund of knowledge to which they have an obligation to contribute also.

While most of us do not have either the time or the opportunity to do original research work in surveying, we do have time and opportunity to promote professionalism in surveying. We can promote professionalism by believing and acting like professionals which when we are successful will accrue to the entire group.

It should be no secret to most surveyors in California that the general public is either ignorant or contemptuous of surveying as a profession. While there are probably many good reasons why this is so, the important point is that nobody is going to help the surveyor overcome this attitude except the surveyor himself. I would like to suggest several areas in which the members of a Chapter may help to improve the surveyor's image with the general public or at least with some of its more influential members.

1. Offer to speak to other professional or non-professional groups about the duties of the surveyor and the complexities of boundary surveys. Possible groups: Attorneys; Engineers; Title Men; Petroleum Engineers and Geologists; Real Estate Groups; Scout Groups and Outdoor Clubs might be interested in what public survey monuments are and how they were set by the original surveyors.

This speaking could be reciprocal, of course, and speakers from these groups might supply the surveyor with many items of interest pertaining to his profession.

2. Submit publicity releases of Chapter and Association news and events to local papers and connect the Licensed Surveyor and his Association to charitable and community enterprises.
3. Most important of all, each land surveyor should believe himself a professional and act accordingly with each person with whom he deals. This has been the weakness of the surveying profession in the past and it is the personal reputation of each of us that determines the reputation of the profession as a whole.

Continued on Page 13



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Successful
Convention*

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CALIFORNIA LAND SURVEYORS ASSO

March 16, 17, 18, 1972 – Sa

EXHIBIT "A"

EXHIBITORS

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EXHIBIT "B"

THURSDAY AFTERNOON, March 16, 1972

- 1:00 PM Commencing Check-In
4:00 PM BOARD OF DIRECTORS MEETING
7:00 PM "Sahara Punch" Party hosted by the Tahoe Chapter

EXHIBIT "B" PART "A"

FRIDAY MORNING, March 17, 1972

- 8:00 AM Exhibits and Coffee – Alpine Room
Program Begins in the Glenbrook Room
9:00 AM Welcoming Address – Donald L. Clark, Director South Lake Tahoe Chamber of Commerce
Past President's Message – Robert W. Curtis
President's Message – C.A. Woolridge, Jr.
Life Membership Award to Robert W. Curtis
Presentation of Scholarship Fund accepted by Bill Tucker for Fresno State
Committee Report
10:15 AM Coffee Break and Exhibits – Alpine Room
10:45 AM Continued Education for License Renewal – Logan Muir, Executive Secretary, Board of Registration
12:00 NOON Lunch – Chef's Salad – Hillside Room
Exhibits – Alpine Room

ATION SIXTH ANNUAL CONVENTION

Tahoe Hotel, Stateline, Nevada

EXHIBIT "B" PART "B"

FRIDAY AFTERNOON, March 17, 1972

- 2:00 PM Timely Cost Control and Profit Analysis – Richard Nelson, Vice-President Ernst & Ernst, Public Accountants, Sacramento
- 3:00 PM
- 3:00 PM Coffee Break and Exhibits – Alpine Room
- 3:30 PM Education for the Land Surveyor "Yesterday, Today, Tomorrow"
Moderator: John Pedrie, Chairman Education Committee
Bill Tucker, Student Fresno State College – Roy Minnick, State Lands Commission
Dr. D.E. Slavoj, Educator, City College of San Francisco – R.S. Stinchfield, Vice-President, Spink Corporation
- 5:00 PM Close Friday Session

EXHIBIT "B" PART "C"

SATURDAY MORNING, March 18, 1972

- 8:00 AM Exhibits – Alpine Room
- 8:30 AM Ramos Fizz Wake-up – Tamarack Foyer
- 9:00 AM Legislative Report Interim Study – Ed Griffin, Chairman Legislative Committee
C.L.S.A. Legislative Advocate – Alvar Yelvington, Sacramento
- 10:30 AM Coffee Breaks, Exhibits – Alpine Room
- 11:00 AM Planned Unit Development – Norm Halverson, Planning Director, Contra Costa County
- 12:00 NOON Lunch – All you can eat Buffet – Hillside Room

EXHIBIT "B" PART "D"

SATURDAY AFTERNOON, March 18, 1972

- 2:00 PM Photogrammetry and the Small Boundary Survey – James S. Kor, Vice-President, Towill Inc. San Francisco
U.S. Geological Survey and the Land Surveyor Tomorrow – Roy F. Thurston, Pacific Region Eng.
U.S. Geological Survey
- 3:30 PM Coffee Break and Exhibits – Alpine Room
- 4:00 PM Regional Government, "Super Agencies" – Richard Heikka, Tahoe Regional Planning Agency
- 5:00 PM Close of Convention

NOTE: There will be ample time for questions and answers after each subject.

LADIES ACTIVITIES

THURSDAY, March 16th

7:00 PM Pre-Convention "Sahara Punch" Party

FRIDAY, March 17th

Open until 10:30 A.M.
 10:30 AM Gaming Film provided by Sahara Tahoe
 12:00 PM Joint Luncheon with speaker on ecology
 2:00 PM Open until 6:30 PM
 6:30 PM Dinner and Stage Show - "The Carpenters"
 9:30 PM Open

SATURDAY, March 18th

Open until 10:00 A.M.
 10:00 AM Junket around east side of Lake to Virginia City.
 Cocktail and Lunch at Delta Hotel.
 Presentation of organic cosmetics.
 Return to Sahara Tahoe via North Shore at 4:00 P.M.
 4:00 PM No more scheduled activities.
 The Tahoe Chapter will be glad to obtain reservations to any shows or dinners that you would like to attend. Skiing is available for those who wish it.

★ ARTWORK ★ DESIGN ★ LAYOUT ★ PASTE-UP ★ RULING ★

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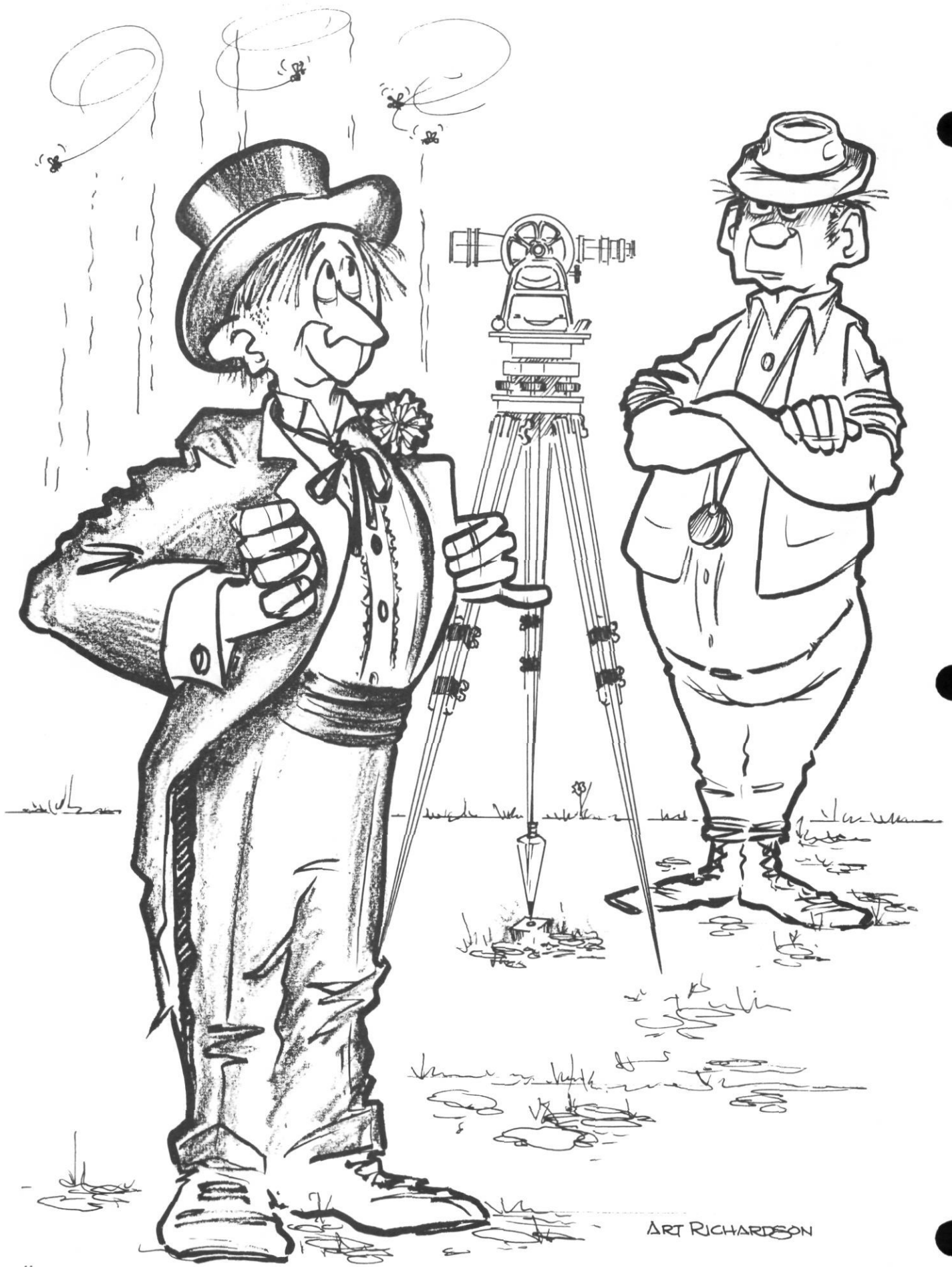


**DO YOU KNOW
THE WAY TO
SAN JOSE?**



**1973 C.L.S.A. CONVENTION
Santa Clara—San Mateo Chapter**

**See you in
San Jose
1973**



ART RICHARDSON

I have heard much discussion about the differences of the philosophies of surveyors in private enterprise and in government practice, and it is true that some of the problems are different for each group.

The surveyor in private practice is faced with the paradox of maintaining an adequate level of competency in his work while keeping his costs at a minimum. If he fails to maintain competency his clients will soon disappear or worse, he may involve himself in expensive litigations that result from sub-standard performance.

On the other hand if he becomes involved in irrelevant research or expensive and unnecessary field investigations, he will soon lose his clients to someone with a more realistic philosophy of costs and competency. The successful surveyor will be a compromiser, supplying just enough service to meet his clients' needs with just enough field work and research to keep his surveys correct.

Perhaps the private surveyor should envy the surveyor in government who, he suspects, has all the time necessary to complete survey investigations which the private surveyor (or rather his client) just cannot afford. He may suspect this, but I am not absolutely sure that this is true. I suspect the surveyor working for government is faced with many of the same problems as his brother is in private practice, including the eternal problem of not enough time or not enough money. Furthermore, the surveyor working for government must consider that many courts view the corners set by public agencies as official monuments. This places a great responsibility on the surveyor whose research and analysis will determine where monuments should be set. In any event, I am sure that most of our major construction projects in this state were based on control set by surveyors in government which gives them a responsibility where there is no room for error.

What I am saying is that we have one group serving the general public who must be cost-conscious as well as right, and another group working also for the public who must be right as well as cost-conscious.

Although the emphasis is somewhat different in each case, the factors are common to both groups and it should be the personal obligation of every surveyor in either group to perform his work with competency and bring credit to both groups who are actually one profession.

There are two areas of interest which I think all Chapter's should investigate. One, would be to encourage local government to authorize County Surveyors and City Engineers throughout the area to re-establish section corner and geodetic control within their areas on a continuing program as time and finances permit. I would hasten to add that I have not consulted any particular public officials about this, as I am sure they would groan audibly about any increased work load. I do feel that because of the prestige of these public offices, that they are the logical agencies to resolve some of the near unresolvable problems which the private surveyor faces today. There is certainly no lack of land surveyor talent available to perform this work, but there is a lack of enthusiasm of most public bodies to start such a program. A Chapter would do well to consider initiating such a program, to emphasize the importance of surveying and land surveyors.

I will wind up with a few remarks about land surveyors in both sectors and that is the adoption of a code of ethics. I am convinced that the single greatest handicap to attaining public

acceptance as professionals comes from the land surveyor's insistence on not acting like professionals. A first step to overcome this would be to adopt an acceptable code of ethics. The second step would be to follow it. ▲

C.L.S.A. POLICY

The California Land Surveyors' Association holds the following view with respect to the place of land surveying in the engineering profession with all that is implied thereby as to ethical conduct, professional development, education promotion and other duties of a practitioner to his profession.

1. The Land Surveyors Act enacted in 1891 by the State of California established the first registration of the surveyor, so-called "civil" engineers, then in 1929 for the protection and welfare of the public the Civil Engineers Act was enacted, recognizing that special qualifications and education are needed to practice Civil Engineering.
2. The Land Surveyors Act was amended in 1939 to allow Civil Engineers to practice land surveying without a qualifying examination as their education requirements included comprehensive course in land surveying, thus allowing those who practice land surveying to have a minimum quality of expertise in that branch of engineering.
3. During the past three decades the education program for professional engineers have become increasingly science-oriented, eliminating required and optional courses in land surveying, thus creating a new generation of Civil Engineers who can offer to the public the service of land surveying without any expertise in that branch of engineering.
4. For the welfare and protection of the public, future professional engineers who wish to offer the public the service of land surveying be required to show qualifications and be examined in the same manner as a Land Surveyor.

PROFESSIONAL CODE

It shall be considered professional and consistent with honorable and dignified professional conduct for any member of the California Land Surveyors Association:

1. To devote effort and support programs to raise the professional, ethical and social status of Land Surveying.
2. To maintain a campaign for public recognition of professional contribution to the ethical, economical and social well-being of citizens of California and of the United States.
3. To accept and maintain standards of professional conduct of the highest order to win the respect and admiration of all citizens.
4. To protect the profession of Land Surveying and the public against the unqualified.
5. To promote an effective program of exchange, communication and cooperation amongst its professional members.
6. To maintain a constant effort of understanding between professionals in government service and private consulting, recognizing the common aims and philosophies and mutual respect of the professional society.
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10. To manage his professional ethics with the courage to uphold his integrity over all other considerations.
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STEREO-PLOTTING INSTRUMENTS

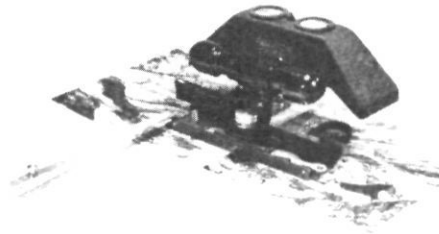
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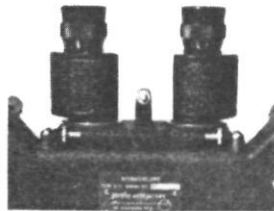
121GE STEREOCOMPARAGRAPH



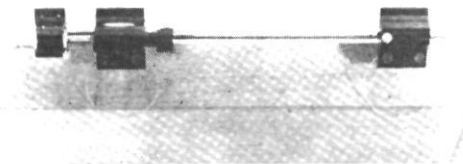
Instrument includes high-precision stereoscope, measuring system and drawing attachment. Used to measure elevations or to draw topographical details including contour lines directly from stereo aerial photographs. **\$645**

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Designed for use with F-71 Stereoscope. 4X magnification, interpupillary adjustment, individual ocular focusing. Fits into F-71 Stereoscope carrying case. **\$195**



122GE STEREO METER PARALLAX BAR



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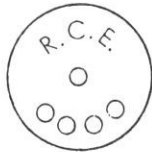
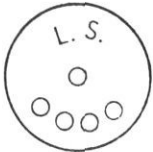
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2. **ASSOCIATE MEMBER GRADE:** Work in land surveying and be recommended by a member.

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c. Mailing Address Phone No.

d. Employment: Private (Principal) Retired

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e. Signature and L.S. No.

f. Recommended by (Associate Grade Only)

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PRESIDENT'S MESSAGE

Chuck Wooldridge, Jr., L.S.

Compulsory continuing education! These words strike fear in the hearts of some and hope in the hearts of others. Yet it is an overdue concept. In this day of rapidly changing technology, the information explosion, it has become virtually impossible for even the most conscientious to keep up.

It seems to me that one aspect of professionalism implies continuing education; keeping up with current methods, equipment, legislation and court interpretations. Without current knowledge there is no way a professional can properly serve his clients or employers best interest.

What is continuing education? How does one find this elusive concept? The trend appears to favor a plan which would require each licensee to earn points by educational activity, as a prerequisite to license renewal. Conventional classroom instruction is proposed for top point value.

However Senate Resolution 218 which directs to licensing boards to study and report their plan for requiring continuing education refers primarily to keeping up with recent developments. Few college and university courses are that up to date. Most are slanted toward expanding the field of knowledge, not modernizing existing knowledge. None today inform the practitioner regarding details of the Stearnes case, nor the advantages of the 10 ounce pocket calculator, nor how a lasar beam improves accuracy.

Seminars, workshops and conventions do a better job of meeting the aims of the Senate Resolution in my opinion. Top points belong to such activities. Such is our excellent annual convention at Tahoe, quite typical of this philosophy.

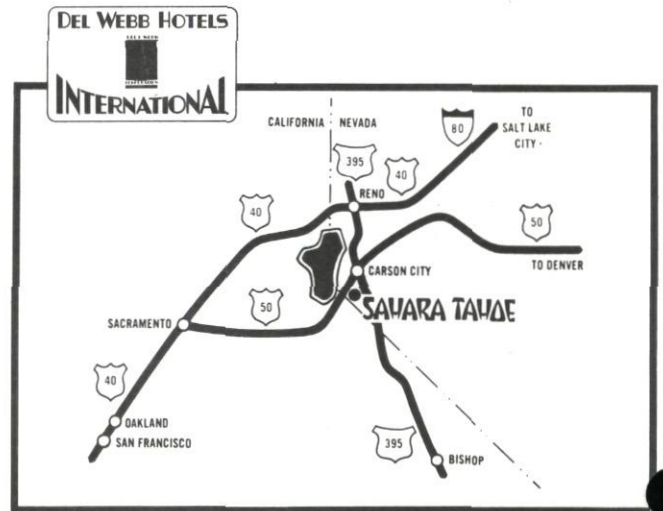
I see the concept of compulsory continuing education as an attempt to legislate professionalism, a contradiction of terms if I ever heard one. It speaks poorly of our profession when such a proposal is even considered, much less be needed. Professionalism can never be legislated; it must be earned. ▲

AN EDITORIAL, MORE OR LESS

Jerry W. Tippin, L.S.

Enclosed is a sketch of Lake Tahoe showing the highways around the Lake and the positions of major landmarks, and the location of the Sahara Tahoe; assuming that since we all surveyors, and know which way North is, that those of you who drive will be able to find "The Lake."

For those who choose to fly, the Reno and South Lake Tahoe Airports are reasonably close. Sahara Tahoe Hotel provides free limosine service from the Reno Airport, beginning at 9:00 a.m. each morning and leaving Reno every two hours thereafter until 9:00 p.m. The Hotel does not provide service to the South Lake Tahoe Airport, although taxis are available. ▲



**C.L.S.A. CONVENTION
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Edward A. Boris, Jr., L.S., EDITOR

Roy Watley, Jr., L.S., Redactor

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