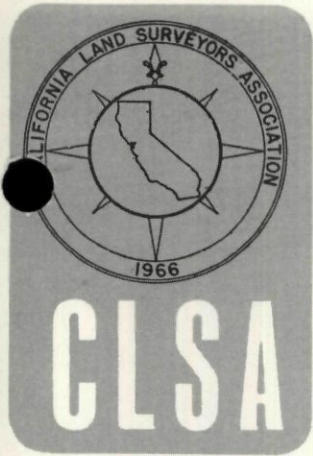


*3 California Surveyor*



# The California Surveyor

**AN OFFICIAL PUBLICATION OF THE ASSOCIATION**

Institutional Affiliate of American  
Congress on Surveying and  
Mapping

1970-11

January 1970



**BREATHTAKING APPROACH TO YOSEMITE  
"EL CAPITAN AND THE WATERFALL"**

# TO BANISH A PROFESSION

It is important that our membership be made familiar with the Final Report of the Task Committee on Status of Surveying and Mapping of the Surveying and Mapping Division ASCE. Being Paper 2166, it is part of the copyrighted Journal of the Surveying and Mapping Division, Proceedings of the American Society of Civil Engineers.

Under "A. General Background of the Problem", following the "Ethical Considerations" is a little note which states, "Other problems of a minor nature and similar thereto, not the least being the recurrent question of admitting land (property) surveyors to engineering license or to engineering societies, added weight in favor of the studies." This was in 1954 at the beginning of the five year study which led up to the final report.

The "First Report, B, in 1955" made little mention of the Land Surveyor except for a reference to Appendix D in which the Land Surveyor is listed as the professional level in Category I, Land or Property Surveying (Cadastral).

"C. Interim Report (1956): What in Surveying is Engineering", states, "1. Land or Property Surveying (Cadastral) was stated to be separate and distinct from engineering, as determined from the official pronouncements of two groups, a. a. -- and b." with references to Appendices A and B.

## Reference A

"The report of the Committee on Land Surveying of the National Council of State Boards of Engineering Examiners dated 1948 reads thus:

Definition of Land Surveying.

It is the opinion of this committee that the profession of land surveying comprises the determination of the location of land boundaries and land boundary corners; the preparation of maps showing the shape and areas of tracts of land into smaller tracts; including the layout of roads and streets, and rights of way of same, to give access to smaller tracts; and the preparation of official plats or maps of said land subdivisions, in compliance with the laws of the states in which the work is done.

The profession of land surveying also includes the preparation and interpretations of land descriptions for incorporation in deeds, leases and other legal documents, and the application and interpretation of U.S. General Land Office (now the Bureau of Land Management) and court decisions, as such decisions relate to original surveys and resurveys.

Land Surveying does not include engineering surveys, such as those required for the planning and construction of railroads, highways, airports, utility lines and bridges, although the determination of the boundaries of the lands to be used for such engineering construction and the preparation of the legal descriptions of same is land surveying and not engineering surveying.

The surveying necessary for the preparation of a topographic map is engineering surveying and not land surveying."

## Reference B.

"Resolution #1-52 submitted by Land Surveyors Committee (NSPE) 1952

WHEREAS, it has long been held in this country that surveying is a form of engineering; and  
WHEREAS, there necessarily exists a close relationship

between the professions of surveying and engineering; and  
WHEREAS, the profession of surveying itself involves both land or boundary line surveys and engineering surveys; and  
WHEREAS, the line of demarcation and the responsibility for the performance of these functions of the surveyor have been the source of doubt and question, often to the detriment of those concerned; and

WHEREAS, A Committee on Land Surveying of the National Council of State Boards of Engineering Examiners has officially propounded reasonable definitions and divisions of responsibility in this regard;

THEREFORE BE IT RESOLVED THAT:

The Land Surveyors Committee of the National Society of Professional Engineers urge that the Board of Trustees of said National Society

(a) endorse said report of the National Council of State Boards of Engineering Examiners, a copy of which is hereto attached;

(b) urge its member State Societies to promote the use and adoption of said report by their State Registration Boards; and

(c) combine its influence and prestige with other interested organizations to promote a uniform, high level, surveyor's registration act throughout the states of this country, with a view toward qualifying registered surveyors in general for membership in the National Society of Professional Engineers.

Noteworthy is the following excerpted statement from:

"D. Second Interim Report 1957: Modification re Land Surveying.

With a fairly unified opinion across the country concerning the categories II through VI, but with a general lack of accord on Category I, Land or Property Surveying (Cadastral), ---

We find that more than half of the profession (including a national committee of surveying teachers) believe that Category I, (Land Surveying-Cadastral) should continue to be regarded as a branch of civil engineering . . . We must therefore retract the recommendation of 1956 that land surveying be regarded as an activity separate and distinct from engineering."

Under "E. Findings of the Present Report" (1959) in the section titled "Re Land Surveying" we find that: "The place in engineering of our category I, Land Surveying (Property, Cadastral), is the subject of greatest controversy throughout the country and of greatest concern to this committee. The principle facts relevant to the matter seem to be:

1. A substantial majority of the civil engineering profession throughout the United States firmly believe categories II, III and IV to be engineering.
2. However, with regard to category I, probably a majority of the profession feel that property surveying should be considered engineering and be "retained" within the branch of civil engineering. Many others believe that this category of work, while admittedly fully professional in nature, should be splintered off from engineering and be allowed to form into a separate professional group."

Continuing under "Re Land Surveying" the following two fine excerpts are noteworthy:

"IT is most important, however, for all to recognize the peculiar nature of property surveying, which demands a specialized knowledge of property law and of local conditions." and

"We envision that in the future it will be imperative that engineers be very careful, therefore, in judging their own competency to practice property surveying."

Finally, under the heading of "F. Conclusions and Recommendations" the final two recommendations read exactly as follows:

4. "That at some appropriate time in the future, those who wish to engage in the practice of land surveying and related engineering work should first be required to qualify for a professional engineer (P.E.) license, and that ultimately the right to practice land surveying in any given area would be a moral right based on professional competence and the engineers' code of ethics, rather than a legal right based on separate registration for land surveying; and that all State Registration Boards be encouraged by all concerned to move toward the goal herein envisioned as rapidly as circumstances permit.
5. That all national, state, and local societies or associations of engineers and surveyors be encouraged to cooperate for the purpose of bringing about as rapidly as may be practicable, the ultimate situations contemplated in several of the above items."

## LAKE TAHOE NOTICE

Members and potential CLSA members in Western Nevada and Eastern California, especially around the Lake Tahoe Area, interested in formation of a Tahoe Area Chapter are being asked to contact Burns L. Jeffries, P.O. Box 984, Incline Village, Nevada 95610. There are numerous CLSA members in the area some of whom are Sacramento Chapter members. Distance being a consideration, it would be advantageous to have a chapter headquarters at the Lake.



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**PERMAMARK. FITS INSIDE  
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- **Permamarks** are available in 3 sizes to fit water pipe with inside diameters of  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", and 1", or over re-bar nos. 3, 4, and 5 respectively.
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For complete information and samples of **Permamark**, write: B&H Enterprises, 920 Lurline Dr., Foster City, San Mateo, Calif. 94404.

Be sure to include your R.C.E. or L.S. number and diameter of water pipe or re-bar you use as monuments.

## MINUTES—GOLETA OCTOBER 12, 1969

### SECRETARY TREASURER

The CLSA Board of Directors met at the Francisco Torres in Golletta on October 12th, 1969. The meeting was called to order at 9:35 AM by President Herb Schumacher.

The minutes of the previous meeting were approved as mailed.

Secretary Treasurer George Colson reported that current cash on hand in the treasury is \$1,712.52. The Voluntary Assessment to date has totaled \$1,442.50. with approximately 35% of the membership responding. Report enclosed.

The President reminded the Board that Committee and Chapter reports are to be submitted three weeks prior to the meeting of the Board. Please note that Chapters should send in condensed reports and not minutes of their meetings.

Acceptance of the Membership Committee Report (enclosed) was moved by Chuck Wooldridge, who further moved that appropriate action be taken to form the ballot on the proposed By-laws revisions and to put the membership categories into effect. The By-laws Committee is directed to form the necessary resolution and these items are to be mailed with ballot for next year's officers. Motion seconded and passed.

There was no Education Committee report.

The Publications Committee report is mailed with these minutes for study and will be acted upon at the next meeting.

Bill Gentry distributed his report on Dues Structures, stating that he had made no recommendations but only compiled what he had received from other organizations. The report was accepted for study. (Should you not have access to this report, contact the Secretary).

Legislative Committee Report. Joe Scherf stated that at the last committee meeting in September, dues discussion was held to determine necessary funds for legislative matters. They have also begun gathering information regarding the three (3) items. 1. Promoting the Land

Surveying profession in California schools. 2. Various State Board requirements for licensing in order to present facts to legislation. 3. The necessity of up-dating LS subject matter in CE exams.

The Committee is unsure of the course to take for the coming year. There are several courses open: Plunge right back into AB 2296; hold back and spend the next year in educating the opposition and in liaison work with other professionals. Then in 1971, with this background work, go back into 2296 or a revised 2296.

The Committee feels that there is no doubt that the Association must have an advocate. It cannot be done on a voluntary basis. The Committee has, therefore, prepared a Resolution (#69-10) (previously mailed, but unnumbered) that the Board approve an increase in dues to provide for an advocate. Resolution approved.

There was a good deal of discussion regarding the need for an advocate in 1970. Don Ward feels the Association must be absolutely flexible in the coming year. It appeared to be

## GOLETA MINUTES (CONT'D)

the concensus that the question is not what we are going to do, but rather what we must be prepared to do.

The questionnaire was discussed at length. As a result, it was moved to delete A-3, 4, 5, 6, all of B, C, and D-1 thru 5 and 7, 8. Passed. It was also determined that the cover letters were excellent and should be included with the abbreviated questionnaire.

Bill Gentry stated that dues increase should be decided at this meeting as it must go into effect the first of the year. After extended discussion, including the cost of a legislative advocate which was estimated to be anywhere from \$6,000 to \$10,000 as needed, Chuck Wooldridge moved that the dues be increased to \$25.00 for regular members, \$10.00 for Associate Members with a \$15.00 Entrance Fee. The motion was seconded and passed.

The Nominating Committee Report was accepted as submitted. The motion that the list of candidates be sent out as the accepted slate was carried. (Report enclosed).

Herb Schumacher eliminated the Liaison Committee with the California Council and created a Standing Committee of the Interprofessional Relations Committee to be chaired by Don Ward. Don was directed to contact the following members to ask them to serve on the Committee: Jim Adams, Dick Stephan, Herb Schumacher, Fred Henstridge, Norm Hathaway, Mike Barsugli and Gene Foster as Vice Chairman. The committee is to be set up in a similar manner to the Nominating Committee, i. e., *varying terms of membership*.

The Interprofessional Relations Report was accepted as submitted.

It was pointed out by several members of the Board that there will be a softening up of the opposition by ACSM to AB 2296, apparently due to discussions held during the Santa Barbara convention.

It was moved that Chapter Reports be submitted with these minutes and if anything required action by the Board, it is to be brought up at the next meeting. Passed.

George Colson was given approval to disburse the \$300 allocated to Ed Kulhan for the purposes of setting up a scholarship in land surveying.

### New Business:

Bill Gentry advised that the Virginia Association of Surveyors had expressed an interest in forming a National Association. Bill felt the idea had merit if only on a correspondence level. It was decided that Herb, as President, should write to other associations to explore the idea.

It was moved and approved that the California Surveyor be sent to all land surveyors for another year.

It was recommended that the proceedings of the annual meeting be sent to all surveyors. It was pointed out that the proceedings are to be printed in the California Surveyor, so no additional mailing is needed.

Chuck Wooldridge moved that the newsletter be sent out at bulk rate. Approved.

Chuck advised that the Board of Registration will hold meetings any place in California if they are invited, provided a dinner is sponsored by the inviting group on the previous evening. Such a request must be made four (4) months in advance. He suggested that such a meeting could be tied in

with either a Directors meeting or the annual meeting. It was, however, decided that time was too short for the February meeting, but that it should be considered at some later time.

Ross Armstead suggested that the office of President Elect be created to assist the President with the knowledge that he, the President Elect, would take over the office of President the following year. Herb requested that Ross make a study of this possibility, and report to the Constitution & By-Laws Committee at the next meeting.

Because some of the members of the Board are unknown to one another and because there are often visitors to the meetings, it was decided that all future meetings name tags will be worn.

George Colson was authorized to retain an accountant to set up a workable bookkeeping system.

Jim Adams announced that there had been an informal request from ACSM to cooperate in distributing pamphlets promoting land surveying as a profession at the high school and junior college level. Jim has offered to assist in this matter.

It was moved and approved that the next Board of Directors meeting be held January 10th, 1970 at 10 AM at the Holiday Inn, Oakland.

Gene Foster requested that the Board consider changing their meeting dates to more closely coincide with the publication of the California Surveyor.

The meeting was adjourned at 12:05 PM.

George Colson  
Secretary Treasurer

## A WORD OF WISDOM

I would like to bring to the attention of the membership, two observations which I believe affect our future growth. The first might be called the "Law of Non-Democracy" stating that no society is supported in equal measure by its constituent members. A few will always carry the burden for the many. This is a simple fact of social organization and those who would play the game must recognize the rule.

The second matter relates to the commonly accepted method of *easing the burden placed upon the few*. Briefly, the answer is "Money"; money for the specialist who more adroitly solves the particular problem. The particular problem is to remove certain specific legislation which creates a class exempt from the laws which govern us in CLSA.

Legislation, we have discovered, is not the product of the wisdom of our Legislators, but tends to stem rather more from a nose-count in Committee hearings. This fact apparently was well known to lobbyists and others but cost us \$3000 and some bruised feeling to learn. I propose that we concede that this is not the field in which we most excel and look to those who are better qualified, just as we propose that those trained in the design of sewage treatment facilities do not engage in the survey work for which they lack the training. Which brings us in full circle to the subject of money and some figures to better our perspective.

For the 300 of us in CLSA to join and pay dues for a year in Local 3E on the off chance of getting work as a rodman, the tab would come to about \$138,000. On the other hand, for an employer to engage our collective services in the capacity of Chiefs of Party, his cost for the year would be around \$6,000,000 - a half million a month. These should be the reference planes for our budget.

To summarize, if we are unwilling to give down with the long green, lets just save the management a lot of trouble and expire gracefully. Bear in mind that a few questions in the Civil Engineers examination like "How Long is a 200ft. Tape?" removes us from our present position as the only group in California whose competence in the field of surveying has been tested by State examination, a position I don't want to share with CE 17,903 and his 17,902 predecessors.

Eugene Lockton  
LS 2535

## SACRAMENTO CHAPTER NOTES

that its Boy Scout Post, dedicated to surveying, is getting along very well. By now the boys and GIRLS have learned to use a compass and a transit, and note this, they are learning to observe the sun and polaris. Edward Reding reports that interest is high, but that more boys are needed.

Ron Brinsky presented an excellent explanation on the aims and objectives of the TOASTMASTERS CLUBS. They sound like a lot of fun, and helpful too, since all members participate in making oral presentations on a wide range of subjects. Our profession needs practiced speakers, so look up the club in your area. They have a varied meeting schedule so that we can all fit a meeting into our schedule. Guests are welcome, so contact the club today.

Chapter officers for 1970 were elected at the regular Chapter meeting on December 6, and will be installed at the January meeting. They are: Homer Banks Jr., President; Ray Jacobsen, Vice-President; Roy Minnick, Secretary-Treasurer; and Ed Reding was elected as Chapter Representative to the CLSA.

## SONOMA COUNTY CHAPTER

This is to inform you, that at our regular chapter meeting, held on Nov. 21, 1969, the following persons were elected as officers of our chapter for 1970.

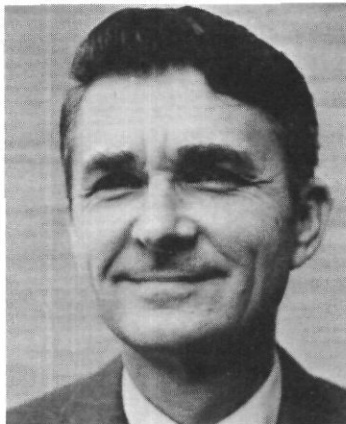
Chairman: Richard J. Coughlan  
1629 Escalero Road  
Santa Rosa, CA 95405

Secretary-Treasurer:  
Doane E. Heryford  
811 College Avenue  
Santa Rosa, CA 95404

Richard Coughlan has stated that he will be Chapter Representative for this coming year.

James E. Adams  
Secretary-Treasurer

## FOR DIRECTOR



PAUL W. LAMOREAUX, JR.

Paul Lamoreaux has been the Right of Way Engineer for the San Francisco Bay Area Rapid Transit District (BART) since 1965. Prior to that, Paul was a Right of Way Engineer in San Diego for the State Division of Highways, where he started his career in Land Surveying in 1951.

Paul was born in San Clemente in 1928, and grew up in San Diego. He received a degree in Economics from San Diego State in 1957.

Paul is active in the State and Santa Clara-San Mateo organizations of CLSA. He is also a member of ACSM, The American Right of Way Association, and the Commonwealth Club of California. He served a term as a director of the BART employees organization and helped organize the Northern California Chapter of the San Diego State Alumni Association.

## FOR DIRECTOR



G. ROSS ARMSTEAD

Born July 7, 1910 in Hanford, California  
Hanford Elementary School  
Hanford High School  
University of California, Berkeley  
Fresno State College  
Began Surveying as Rodman May 1929  
Licensed as Land Surveyor September 1953  
Member of A.C.S.M. since 1953  
Charter Member C.L.S.A. August 1966  
Board of Directors C.L.S.A. 1969  
C.L.S.A. Legislative Committee 1967, 68, 69  
C.L.S.A. Nominating Committee 1968, 69  
General Chairman 1970 C.L.S.A. Annual Meeting  
President Monterey Bay Chapter C.L.S.A. 1968, 69  
Member of California Council of C.E. & L.S.  
President Soquel Merchants Association 1967, 68  
Life Member Disabled American Veterans

## SACRAMENTO CITY COLLEGE TO OFFER BOUNDARY SURVEY COURSE

At 7 PM, February 3, Sacramento City College will offer the first boundary survey course in Northern California. The course is entitled "Boundary Control and Legal Principles," and will include description preparation and analysis. While we professionals may find the course helpful, the classwork will be directed toward junior college students and in-service, sub-professional technicians, and those in related fields. The course will give two units of credit and be presented by lecture.

Sacramento Chapter members have been instrumental in initiating the course as part of their continuing program aimed at stimulating interest in the young, potential, surveyor. Chapter members devoted a lot of time during the last six months, especially Eugene Foster who is the Chapter Education Committee Chairman, and our hats off to them for a successful effort.

California Surveyors should also doff their hats to Dr. Herbert H. Bolssom, Assistant Dean of Special Services at the college, without whom there would be no course. He has been not only interested and sympathetic to our problems from the very beginning, but also a very active supporter. Special thanks also go to the intermediaries, Mr. Merwin Rose and Mr. Michael Mahoney.

Class fee is \$10.00, and registration can be completed at the first class meeting. For further information and room number, contact the instructor, Roy Minnick, in Sacramento at 363-0191, or by mail at 10324 Newton Way, Rancho Cordova.

## EAST BAY CHAPTER REPORT

The East Bay Chapter of the California Land Surveyors Association has held three meetings since our last report.

At our October 8, 1969 meeting a lively discussion of the State Association dues structure took place. Mr. Bruce Sumner gave us a very informative talk on historical survey instruments. Bruce also had a part of his fine collection of older instruments on display for our inspection.

During the November 12, 1969 meeting we selected a nomination committee to determine candidates for next year's officers. We also decided to have a Christmas party and to invite our wives. Ed Boris was in charge of the entertainment committee. There was quite a bit of discussion of the possibility of amending the Chapter by-laws. Hal Davis was appointed Chairman of a committee to review the by-laws.

Our December 10, 1969 meeting was our Christmas party. We had the best turnout for any of our meetings to date. We all are indebted to Ed Bros for a fine party. A short business meeting was held and the following were elected as officers for 1970.

President: Ed Griffin  
Vice President and Representative to  
the Board of Directors: Gil Barbee  
Secretary: George Busher  
Representative to the Board of  
Directors: Ed Boris

## NORTHERN COUNTIES CHAPTER REPORT

The Northern Counties Chapter has been meeting since April 1969. Our chapter meetings are on the third Saturday of each month and are usually held at the Holiday Inn in Redding. We have ten active members with the following officers - Ken Burton, Chairman; Ed Coleman, Vice-Chairman; Harley Lowden, Secretary-Treasurer.

Our main purpose to date has been to promote membership. The area we cover (5 Counties) has been a potential membership of 40 Land Surveyors and many potential Associate Members. The Chapter will be flexible with meetings alternately in Redding and Chico, with occasional meetings in Yreka and Susanville.

The speaker at our August meeting was Don Mayer, Chief Photogrammetrist for Clair Hill and Associates of Redding. The September meeting was cancelled due to the opening of Deer Season.

Land Surveyor's Week has been celebrated with articles in the local newspapers and speaking engagements by our members to local service clubs.

Ken Burton  
Chairman  
Northern Counties Chapter

## MARIN COUNTY CHAPTER REPORT

The Marin County Chapter has been extremely busy in preparation for Land Surveyor's Week.

To start off the week with a good deal of gusto, the Chapter has arranged with the Independent Journal, a full spread in its magazine section. (Copies will be distributed at the Directors Meeting for your perusal).

In an effort to attract the public's attention, a display has been prepared in a downtown San Rafael window, showing the most up to date equipment used locally (Geodimeter, Packard Hewlett Computer, laser mount for tunneling operations, etc.).

A panel of three of the Chapter members has been invited to speak to the Marin County Real Estate Board at their breakfast meeting October 7th. The topic established - "The Land Surveyor's Part in Real Estate Transactions - OR - What You Don't know Can Hurt Lots". It promises to be stimulating. Gene Lockton heads the panel with George Colson and John Stuber also participating.

In addition, Mr. Churchill Simonson, a member of the Real Estate Board, will speak to the Chapter at its October 8th dinner meeting at Sabella's on "Real Estate Broker - Friend or Foe?"

The Chapter has taken in several new members and anticipates that the week's activities will stimulate even more interest.

William O. Lockett, Jr.  
Secretary Treasurer

## MONTEREY BAY CHAPTER REPORT

At our August meeting, held in Santa Cruz, we were fortunate to host State Assemblyman Frank Murphy, Jr. our local representative as a guest speaker. He gave us a fine talk on the ways of the legislature and what is required to get a legislative program across. If nothing else he brought home the point that we have a long row to hoe to correct the inequities in the L. S. Act.

The September meeting was held in Salinas. The tentative convention program was discussed at length. Our Chapter representatives to the Legislative Committee and the State Board of Directors took soundings of the membership as to their feelings as to what compromises might be favorably looked upon in order to have a successful legislative program in the next session of the State Legislature.

Our October meeting is scheduled to be held at the Resetar Hotel in Watsonville. The agenda will include reports from the legislative committee and the various convention committees. The tentative convention program and budget matters will be discussed. It is our aim to get the tentative convention program in the mail in the latter part of November. It is planned that this mailing will go to every surveyor in the State in order to help promote our State Organization.

George N. Darling  
Chapter Secretary

## FOR DIRECTOR



LAWRENCE J. CLONEY

1. 37 years old.
2. Married, one child (14 month old boy).
3. Licensed Land Surveyor since 1965.
4. Attended the University of Santa Clara for 3 years in Civil Engineering
5. 3 years in the U.S. Marine Corps. The last year and half as an Instructor in Construction Surveying.
6. Started with the City of San Jose in 1957 as an Engineering Aide. I am now the "Land Surveyor" in charge of the Surveying Section of 28 men.
7. I want to belong to the Legislation Committee of CLSA because I believe very strongly in keeping the identity of the Land Surveyor from being absorbed into Civil Engineering.
8. Also, I would like to be active in a committee to personally contact every Land Surveyor in the State to ask them to join our CLSA - the more members, the stronger we become.

## FOR DIRECTOR



RAY J. PETERS

Attended Missouri School of Mines and Metallurgy (Major - Civil Engineering)

U.S. Army Corps of Engineers - Topographic surveying - Panama and Alaska)

U.S. Bureau of Reclamation - (Lake Berryessa, Putah South Canal)

Division of Bay Toll Crossings - (Richmond - San Rafael Bridge)

Division of Highways, District IV ("Big Cut", location surveys)

Present - Private Practice (Peters & Verdugo, Surveyors-Engineers, Lafayette)

California Life Teaching Certificate - Surveying (Peralta Colleges, Oakland, San Francisco City College)

Past Chairman, Oakland Sub-Joint Apprenticeship Committee for Surveyors

Past Chairman, East Bay Council of Surveying and Mapping (Introduced use of Coordinate Systems on maps - East Bay Area)

Member, State Housing Advisory Committee

Member, Home Builder's Association

Member, American Congress on Surveying and Mapping

Holder of several patents for design of surveying equipment.

Member, California Council of Civil Engineers and Land Surveyors

Member, State Board of Registration for Professional Engineers (Appointed by Governor Reagan - June, 1968)

PV 5463/13

## CALIFORNIA SURVEYOR ADS

For the convenience of CLSA members, classified ads will be published in the California Surveyor beginning with the April 1970 issue. Categories will include positions vacant, equipment for sale, services, positions wanted, etc.

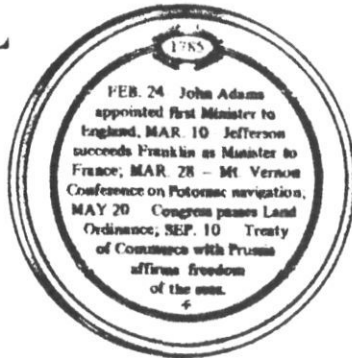
Each ad will be limited to 1 column inch which is equal to 7 lines. Please type your own ad, double spaced, and submit it before the deadlines shown on the back cover of this newsletter.

Commercial advertising will be accepted for publication in the California Surveyor beginning with the January 1970 issue. Inquiries should be addressed to the editor.

Sustaining memberships will soon be available which will carry some sort of preferred exhibitors rights and a listing in the California Surveyor. Address inquiries regarding these memberships to the secretary, George P. Colson, 1414 Fourth Street, San Rafael, California 94901.

# THE 1785 MEDAL

*Hal Faulkner  
Sculptor*



## LAND ORDINANCE BECOMES LAW

**Land! Western lands! These words have always brought excitement in America and the year 1785 was no exception. Settlers were moving into the Old Northwest above the Ohio River and a new ordinance implementing the Territorial Ordinance of 1784 was needed to provide for the survey and sale of the lands.**

The Land Ordinance of 1785 passed by Congress on May 20 stipulated that the land was to be surveyed on the basis of New England townships six miles square containing 36 sections, each of which is one square mile equal to 640 acres. Four sections were to be set aside for the United States and one for a public school. The rest were to be sold at not less than a dollar an acre.

This meant that a buyer had to have at least \$640 in cash or U.S. certificates of indebtedness. As a result the large land speculators, through their lobbyists in Congress, obtained much of the land, rather than the actual settlers.

Purchasing the land was comparatively easy. Surveying it was a much slower process. By 1787 a small part of eastern Ohio had been surveyed.

## THE FRANKLIN MINT HISTORY OF THE UNITED STATES

## ACSM AFFILIATES

Alaska Society of Professional Land Surveyors  
 Arkansas Association of Registered Land Surveyors  
 East Bay Council on Surveying and Mapping (California)  
 California Land Surveyors Association  
 Professional Land Surveyors of Colorado  
 Connecticut Association of Land Surveyors, Inc.  
 Florida Society of Professional Land Surveyors  
 Georgia Association of Registered Professional Land Surveyors  
 Illinois Registered Land Surveyors Association  
 Indiana Society of Professional Land Surveyors  
 Kansas Society of Land Surveyors  
 Louisiana Land Surveyors Association  
 Maryland Society of Surveyors, Inc.  
 Massachusetts Association of Land Surveyors and  
 Civil Engineers, Inc.  
 Eastern Massachusetts Association of Professional  
 Engineers & Land Surveyors  
 Michigan Society of Registered Land Surveyors  
 Minnesota Land Surveyors Association  
 Mississippi Association of Land Surveyors  
 Missouri Association of Registered Land Surveyors  
 Montana Association of Registered Land Surveyors  
 Professional Surveyors Association of Nebraska  
 Land Surveyors Functional Section—New Jersey  
 Society of Professional Engineers  
 Central New York Society of Land Surveyors  
 Genesee Valley Land Surveyors' Association (New York)  
 Nassau-Suffolk Civil Engineers, Inc. (New York)  
 Niagara Frontier Land Surveyors Association (New York)  
 Surveyors Association of Queensboro, Inc. (New York)  
 North Carolina Society of Surveyors  
 Professional Land Surveyors of Ohio  
 Professional Land Surveyors of Oregon  
 South Carolina Society of Registered Land Surveyors  
 Texas Surveyors Association  
 Vermont Society of Surveyors  
 Virginia Association of Surveyors, Inc.  
 Land Surveyors Association of Washington  
 Wisconsin Society of Land Surveyors





# LAND SURVEYING

Land surveying is a science concerned with, but not limited to, the determination of the boundaries and areas of real property. It includes the planning and subdivision of lands, and the preparation and interpretation of descriptions for the conveyancing of parcels of land. It also includes the construction of maps and plats showing defined areas, and the natural and man-made features on, above, and beneath the land and water surface of the Earth. Land surveying is an art in which necessary technical skills, common to surveying and mapping in general, are applied to the accumulation of evidence and data used in the correlation of mathematical facts and the principles of real property law.

Land surveying includes the cadastral surveys of public lands by the Federal Government. These surveys mark the public lands into townships, ranges, and sections. Although this is not a new country, it still has large remote areas requiring cadastral surveys, such as those in Alaska.

The need for accurate property and boundary surveys is becoming greater with the increase in cultural development of the country and the rise in the value of land. The ratio of surveyors to population in the United States is very low in comparison to older countries in Europe where the scarcity of land has accentuated the need for accurate, well monumented surveys, and detailed property records.

Land surveying is done largely by people in private practice. Such practitioners must be registered in the state or states in which they practice. Like law, land surveying is not an exact science. It is a continuous exercise of judgment and logic, through which unique solutions are sought to problems presented by particular sets of facts. As such, it requires an open mind, patience, perseverance, and a high degree of integrity. Those who choose to follow this profession, which is the only direct link between the concept of title and the reality of possession, should have inquisitive minds, fondness for challenging problems, devotion to the truth, and an ability to communicate with a clientele and others affected by their professional acts.



Subdivision surveying and layout using tacheometer.



Distance measurement using subtense bar and theodolite.



Cadastral surveying in Alaska

Prepared and published by

American Congress on Surveying and Mapping  
430 Woodward Building • 733 15th Street, N.W.  
Washington, D. C. 20005



The objectives of ACSM are to: (a) advance the sciences of surveying and mapping in their several branches, in furtherance of the public welfare and in the interests of both those who use maps and surveys and those who make them, and establish a central source of reference and union for its members; (b) contribute to public education in the use of surveys, maps and charts and encourage the prosecution of basic surveying, mapping and charting programs; (c) encourage improvement of college curriculums for the teaching of all branches of surveying and mapping both in the technological sciences and the professional philosophies; (d) honor the leaders in the sciences of surveying and mapping; and (e) support a program of publications that will represent the professional and technical interests of surveying and mapping.

# FOURTH ANNUAL CONFERENCE: CALIFORNIA LAND SURVEYORS ASSOCIATION

SANTA CRUZ, CALIFORNIA

February 26 - 28, 1970

## EXHIBITORS — a partial list

KEUFFELL & ESSER CO.  
SURVEYORS SERVICE CO.

CONCAP COMPUTING SYSTEMS  
TECHNICAL ADVISORS, INC.  
AGA CORPORATION

## LADIES ACTIVITIES

Saturday 9:30 - 3:30 Tour of Carmel shops.

A shopping spree through the fabulous shops of Carmel including lunch at the famous Pine Inn on Ocean Avenue.

Friday - 12:00 noon Lunch with the men and a humorous speaker on a vital topic.

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## STUDENTS

A limited amount of student housing may be available, dormitory style, at appropriate rates. Student registration is set as low as possible to encourage student participation. Write for further information.

## PRELIMINARY PROGRAM - SUBJECT TO CHANGE

C. A. Wooldridge, Program Chairman, 400 Camino Aguajito, Monterey, CA 93940  
Convention Committee, 763 Chestnut Street, Santa Cruz, CA. 95060

## THURSDAY, FEBRUARY 26, 1970

1:00 - 6:00 Board of Directors.  
6:00 - 7:00 Registration and Complimentary Cocktails.

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## FRIDAY, FEBRUARY 27, 1970

8:00 - 5:00 Registration, exhibits and complimentary coffee.  
9:00 - 9:15 WELCOME - RICHARD J WERNER, Mayor of Santa Cruz.  
9:15 - 9:30 PRESIDENT'S REMARKS - Herbert J. Schumacher, President  
9:30 - 10:00 ASSOCIATION REPORTS - Committees

Secretary - Treasurer  
George P. Colson  
Membership - Robert W. Curtis  
Public Relations - Eugene Lockton  
Publication - Richard J. Coughlan

Education - Edward F. Kulhan  
Editor - Eugene L. Foster  
Constitution and By-Laws -  
E. Robert Jacobson

10:00 - 10:30 Coffee Break and Exhibits.  
 10:30 - 11:00 Interprofessional Committee Report, Donald E. Ward.  
 11:00 - 11:30 Legislative Committee Report, Joseph J. Scherf.  
 12:00 Luncheon with the Ladies, "CONSERVATION - A REALISTIC  
 LOOK", Captain Sidney Brooks, USN Retired, Exec. Sec. -  
 Ocean Activities Council.  
 2:30 - 2:45 Installation of New Officers.  
 2:45 - 3:30 "HISTORY AND THE LAND SURVEYOR" Recovering original  
 land corners, Walter J. Hanna, Jr., LS.  
 3:30 - 4:00 Coffee Break and Exhibits.  
 4:00 - 4:30 "LAND SURVEYOR & PRIVATE PRACTICE", William A. White  
 PE, Exec. Director, Calif. Council of Civil Engineers and  
 Land Surveyors.  
 4:30 - 5:00 "LIABILITY AND THE LAND SURVEYOR", Robert O. Wilhelm,  
 PE and Attorney  
 6:30 - 7:30 COCKTAIL HOUR - hosted by CONCAP COMPUTING SERVICE  
 7:30 Dinner Dance. Abalone or prime rib, dress informal

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SATURDAY, FEBRUARY 28, 1970

8:00 - 12:00 Registration  
 8:00 - 5:00 Exhibits and complimentary coffee.  
 9:00 - 10:30 "TENTATIVE MAPS"  
 Moderator, Edward De Mars, Monterey County Planning Director  
 Architect, Donald Goodhue, AIA, Hall & Goodhue, Monterey  
 Landscape Architect, to be announced.  
 Engineer, Michael L. Splitstone, PE  
 Geo. S. Nolte, San Jose, Land Surveyor.  
 Eugene Lockton, LS, San Rafael.  
 10:30 - 11:00 Coffee Break and Exhibits  
 11:00 - 11:30 "THE STUDENT AND THE LAND SURVEYOR", Joel Readio,  
 Surveying Instructor, Monterey Peninsula College.  
 Student from Monterey Peninsula College, to be announced  
 12:00 Luncheon  
 2:00 - 2:30 "LAND SURVEYOR AND THE REGISTRATION BOARD."  
 Board Member, JOHN R. WINZLER, PE, Winzler & Kelly, Eureka  
 2:30 - 3:00 Coffee Break and Exhibits  
 3:00 - 5:00 "LEGISLATION - AN OLD FASHIONED DEBATE", The LS-RE  
 Controversy. Moderator, Sen. Donald L. Grunsky, Watsonville,  
 Attorney  
 Engineers - Jack Y. Long, PE, J. Y. Long Company, Oakland.  
 James Jurkovich, PE, State of California, member of  
 Registration Board  
 Surveyors - Ray J. Peters, LS, Peters & Verdugo, Lafayette,  
 member of Registration Board.  
 Eugene Foster, LS, State of California, State Lands  
 Division.

# THE 1966 FLURRY

## PROPOSAL TO MODIFY THE LAND SURVEYORS ACT TO MAKE LAND SURVEYOR A TITLE IN CIVIL ENGINEERING

June 27, 1966

- Section 1. Repeal Section 8705 of Chapter 15, Div. 3, B&P Code. (Definition of a subordinate. This is in the Engineers Act.)
- Section 2. Repeal Sections 8711, 8713 of Chapter 15, Div. 3, B&P Code. (Board records and employees. This is in the Engineers Act.)
- Section 3. Amend Section 8725 of the B&P Code to read: 8725. It is unlawful for any person to practice, offer to practice, or represent himself, as a land surveyor, as defined in Subsections 8726 (a) through (h), in this State, or to set, reset, replace or remove any survey monument on land in which he has no legal interest, unless he has been registered as a civil engineer and authorized to use the title "land surveyor" or specifically exempted from registration under this chapter.  
It is unlawful for any person to practice or offer to practice land surveying, as defined in Subsections 8726 (i) through (l) in this State, unless he has been registered as a civil engineer or exempted from registration under this chapter or Chapter 7.
- Section 4. Repeal Section 8726.
- Section 5. Add new Section 8726 as follows: (This merely rearranges the subparagraphs in the Section to put property surveying in (a) to (h) and engineering surveying in (i) to (l) ).  
8726. A person practices land surveying within the meaning of this chapter who, either in public or private capacity, does or offers to do any of the follows  
(a) Locates, relocates, establishes, re-establishes, or retraces any property line or boundary of any parcel of land, or any right-of-way or easement for any of the fixed works embraced within the practice of civil engineering, as described in Chapter 7, Division 3. of this code.  
(b) Makes any survey for the subdivision or re-subdivision of any tract of land.  
(c) By the use of the principles of land surveying, determines the position for any monument or reference point which marks a property line, boundary or corner, or sets, resets or replaces any such monument or reference point.  
(d) Cadastral surveying.  
(e) Determines the information shown or to be shown on any map or document prepared or furnished in connection with any one or more of the functions described in subsections (a), (b), (c) and (d).  
(f) Indicates in any capacity or in any manner, by the use of the title "land surveyor" or by any other title or by any other representation that he practices or offers to practice land surveying.  
(g) Procures or offers to procure land surveying work for himself or others.  
(h) Manages, or conducts as manager, proprietor, or agent, any place of business from which

land surveying work is solicited, performed or practiced.

(i) Determines the configuration or contour of the earth's surface or the position of fixed objects thereon or related thereto, by means of measuring lines and angles, and applying the principles of trigonometry or photogrammetry.

(j) Geodetic surveying.

(k) Locates or establishes alignment or elevations for any of the fixed works embraced within the practice of civil engineering, as described in Chapter 7, Division 3 of this code.

(l) Determines the information shown or to be shown on any map or document prepared or furnished in connection with any one or more of the functions described in subsections (i), (j), and (k).

- Section 6. Repeal Section 8729 (Relates to corporate practice of surveying, would be governed by Engineers Act.)
- Section 7. Add new Section 8729 as follows (Permits surveyors to do land planning):  
8729. Surveys authorized under this chapter may include land planning studies related to the division of land.
- Section 8. Repeal Section 8731 (CE exemption to LS Act, no longer appropriate.)
- Section 9. Repeal Article 4, consisting of Sections 8740 through 8753.
- Section 10. Add new Article 4, as follows (Grandfathers surveyors as limited civil engineers, protects title and practice of land surveyor, limits surveying practice of civil engineers):

## ACSM ASP 1970 CONVENTION

MARCH 1-6

WASHINGTON HILTON

WASHINGTON, D. C.

### General Theme

- SURVEYING SCIENCE IN THE SEVENTIES

### 30th ACSM Meeting Theme

- THE MISSION OF SURVEYING AND MAPPING
- OPPORTUNITIES IN PRIVATE AND PUBLIC PRACTICE

The program will highlight the roles of the land surveyor, cartographer, control surveyor, photogrammetrist, topographic engineer, and geodesist as they move into the full utilization of an essentially new technology and its sophisticated precision instrumentation. Recent developments in equipment, materials and techniques will be shown and demonstrated by about 150 exhibitors. The opening session will include an eminent speaker who will relate the week's activities to the general theme of the convention. ACSM will hold an opening plenary session which will feature the 30th Annual Meeting theme. The mid-week keynote address will be given by one of America's foremost figures in the field of science. The technical program will include such features as research frontiers and training in thematic cartography, the joint interest of public and private practice in control surveys, regional aspects of urban and rural planning and their effect upon control surveys, council to review problems in land surveying and the relationship between land and control surveys, and the application of computer technology to surveying problems.

### EXHIBITORS, contact:

PAUL ALBAN

Deputy Director for Exhibits  
6104 Bryn Mawr Ave., Glen Echo, Md. 20768

### FOR GENERAL INFORMATION, contact:

DR. RICHARD RANDALL

Chairman, Publicity Committee  
c/o Rand McNally & Co., 1104 National Press Bldg., Washington, D. C. 20004

### HEADQUARTERS OF SPONSORING SOCIETIES:

AMERICAN CONGRESS ON SURVEYING AND MAPPING

430 Woodward Bldg., 733 15th Street, N.W., Washington, D. C. 20005

AMERICAN SOCIETY OF PHOTOGRAMMETRY

105 Virginia Ave., Falls Church, Virginia 22046

#### Article 4. Registration

8740. All land surveyors licenses valid on June 30, 1968, will expire on that date. In lieu of each license held by a person who is not also registered as a civil engineer in this state the board will issue a certificate of registration as a civil engineer. The person so registered shall be subject to the same regulations as a civil engineer who has been registered under the provisions of Chapter 7. The certificate authorizes him to practice only that civil engineering set forth in Section 8726 of this chapter. The board will also issue to each person who holds a valid land surveyors license on June 30, 1968, a certificate of authority to use the title "land surveyor".

8741. After June 30, 1968; the practice, or the offer to practice, of land surveying, as defined in Section 8726 (i) through (l), may be done only by a civil engineer registered under the provisions of this chapter or Chapter 7, and land surveying as defined in Section 8726 (a) through (h) may be done only by civil engineers who are authorized to use the title "land surveyor" under the provisions of this chapter.

8742. (a) No person shall represent himself as, nor use the title of, licensed land surveyor, land surveyor, or geotronic engineer unless he holds a valid certificate of registration as a civil engineer and also a certificate of authority to use the title "land surveyor", both issued by the board.

(b) No person shall use the title survey engineer, geodetic engineer, topographic engineer or photogrammetric engineer unless he holds a valid certificate of registration as a civil engineer.

8743. Any civil engineer registered in the State may apply for, and be issued, a certificate of authority to use the title "land surveyor" provided he makes application to the board on or before June 30, 1968, and provided further that he submits evidence satisfactory to the board that he has had four years of professional level land surveying experience.

8744. After June 30, 1968, a civil engineer registered in the State may qualify for the certificate of authority to use the title "land surveyor" under rules established therefore by the board.

Section 11. Amend Articles 6 and 7 as follows (Relating to discipline and enforcement): In Article 6 Section 8780 first sentence: Strike everything starting with "license or certificate" and ending with "III of this code" and insert "certificate of authority to use title land surveyor." In Article 6 Section 8784 change the word "license" to "certificate" in two places. In Article 7 Section 8792 change the word "licensing" to "certification" and "License" to "certificate."

Section 12. Repeal Section 8793 (Requiring citizenship to be licensed).

Section 13. Repeal Article 8.

Section 14. Add Article 8 to read (This relates to the fee structure):

#### Article 8. Revenue

8800 (a) The fees fixed by Chapter 7 for renewal and reinstatement of professional engineer certificates shall apply to certificates of registration as civil engineers issued under the provisions of this chapter.

(b) The fees fixed by Chapter 7 for applications, certificates, renewal and reinstatement for the certificate of authority to use the title "structural engineer" shall apply to certificates of authority to use the title "land surveyor."

#### MEMBER

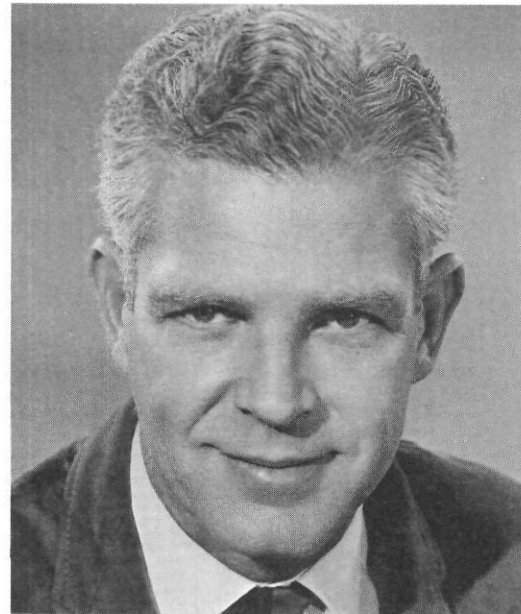
Thomas Franklin Estep

L. S. 3461

Born October 16, 1935, Portland Oregon  
Passed away November 3, 1969, Los Angeles, California

A surveyor for Karn Surveyor Company for 10 years, Mr. Estep was a 1955 graduate of Palomar College. A resident of Fallbrook since 1964, he left many beloved relatives and friends in the San Diego, Orange, Los Angeles area.

## FOR PRESIDENT



FRANCIS T. "TOM" CAPORAEL

As well as being licensed as a land surveyor in California, Tom is also licensed in New York and in Puerto Rico. He is one of the Charter Members of CLSA and served on the association's first Legislative Committee in 1967. A champion of adherence to the Rules of Order, he was Sergeant-at-Arms and delegate to the National Council for Land Surveyors in 1968.

Tom has contributed many good ideas, many of which are now part of the CLSA Administrative and Legislative policies. The Ventura Area is fortunate, indeed, to have available the services of such a land surveyor.

# SANTA CLARA - SAN MATEO CHAPTER

February meeting - First meeting for new officers:

Chairman Bill Ferris  
Vice-Chairman Dave Phares  
Sec. - Treas. Larry Cloney  
Chap. Rep. Earl Cross:

Business for the coming year discussed, committees named, etc.

April meeting - we had 21 L.S.'s so a 2nd chapter rep. was elected - Jim Foulk. The Guest Speaker was Frank Olrich, the Administrative Aide of John Vasconcellos, Assemblyman from the 24th District (Santa Clara County). He discussed legislative procedure with us.

June meeting - report by Earl Cross, Tom Gribbin and Larry Cloney on going to Sacramento to see Assemblyman Vasconcellos in regard to AB #2296. Guest speaker was Joseph McQuillan both an M. E. and a practicing attorney. His talk was on liability in Land Surveying.

August meeting - guest speaker was Jim Carter of AGA Corp. He discussed Geodimeters and other electronic measuring equipment.

October meeting - guest speaker was Harl Pugh. He discussed use of photogrammetry in Records of Survey.

December meeting - 1970 officers were elected:

Chairman Dave Phares  
Vice-Chairman Larry Cloney  
Sec. - Treas. Paul Lamoreaux  
Chap. Rep. Tom Gribbin and Larry Cloney.

We ended with 36 members (biggest in State) 28 L.S.'s and 8 associates.

Larry Cloney  
Sec. - Treas.

## NOMINATING COMMITTEE REPORT

LIST OF NOMINEES FOR THE 1970 OFFICERS & DIRECTORS

### PRESIDENT

F. T. (Tom) Caporael  
Robert W. Curtis

### VICE-PRESIDENT

George P. Colson  
Adolph J. Barsugli

### SECRETARY-TREASURER

James E. Adams  
Fred W. Henstridge

### DIRECTORS

G. Ross Armstead  
Edward A. Boris, Jr.  
Mike Burroughs  
Vic Case  
Larry Cloney  
Eugene L. Foster  
William O. Gentry  
Charles N. Hathaway  
Arthur A. Jones  
Paul W. Lamoreaux, Jr.  
Maurice E. Lafferty  
Ray Peters  
C. A. Wooldridge, Jr.

William O. Gentry, Chairman  
Address: 4780 E. Tulare Ave.  
Fresno, Calif. 93702

## FOR DIRECTOR

Charles N. "Norm" Hathaway is Chief Surveyor for the City of Long Beach.  
L.S. No. 2680. Licensed in 1951.  
Attended Long Beach City College and University of California at Los Angeles.  
4 years U.S. Naval Construction Battalion in the South Pacific.  
Chief of Surveys for Long Beach since 1953.  
Member ACSM Property Surveys Division.  
Member So. Cal. Section ACSM.  
Treasurer, Southern Counties Chapter, CLSA.

## PUBLICATIONS COMMITTEE REPORT

The Publications Committee having received no instructions from the Board, the President or other Committees has remained essentially inactive. A study is currently being prepared for presentation to the Board regarding precise functions for this Committee. It should be noted that several specific recommendations and requests were made in the Annual Report of the Publications Committee to the Board. No response has been received concerning these items.

A specific inquiry was made by Don Ward regarding the status of publication of the pamphlet "How to Choose a Land Surveyor". The minutes of the Directors meetings of 19 October, 1968 indicated that this be included within the "9 Page Professional Code" incorporated within the Constitution and By Laws pamphlet. This was accomplished as directed. If separate publication, as a sheet is desired, the Board is requested to so authorize and indicate the desired number of copies and their method of distribution.

The Committee would like to determine the Board's desire on the publishing of a Second Annual Roster. The form and context would be essentially as was prepared for this year. It is suggested that distribution of this roster, if authorized, be made prior to 31 December, 1969.

It is also suggested that consideration be given to preparation of a "Proceedings" of the Annual Meeting. Much valuable material has already been lost from previous meetings that would be of great value to members who were unable to attend, as well as to those who did.

Publications Committee  
Richard J. Coughlan,  
Chairman.

## MEMBERSHIP COMMITTEE REPORT

California Land Surveyors Association  
Board of Directors

The Membership Committee has continued its liaison with the Secretary-Treasurer's office in answering letters of inquiry regarding C. L. S. A. The committee has researched the area of three new types of membership. It is the recommendation of this committee that the Board of Directors consider each one separately, so that if there are objections to one, the others will not be affected. The committee feels that these new forms of membership in no way compromise our Land Surveyors only membership.

Once approved by the Board, the changes will need to be voted on by the members as required by our Constitution and By-laws. The new forms of membership recommended are as follows:

**LIFE MEMBER:** A regular member who is at least 65 years of age and has had at least 10 years cumulative membership in the association. Also, any member who has served honorably as President of the association upon completion of his term of office. Life membership shall be vested automatically when any such member is so qualified. Annual dues of such members are suspended beginning with the fiscal year first following such member's qualification. Life members continue to hold the same rights and prerogatives to which they were entitled before attaining life membership.

**HONORARY MEMBER:** Any person whose professional attainments in surveying or in subjects closely associated with surveying, have given him a broadly acknowledged eminence, and any person who has rendered special service to the association, its aims and objectives. Honorary members shall be elected by a majority vote of the Board of Directors and said member is elected for life or until revoked by the Board for just and sufficient cause. No dues or assessments are required from honorary members. Honorary members shall not be eligible to vote or to hold any office in the association or in a local chapter thereof. Not more than two honorary members shall be elected in one year.

**SUSTAINING MEMBER:** Any individual, company or corporation who by their interest in the Land Surveying profession is desirous of supporting the purposes and objectives of this association. Acceptance of a sustaining member is in no way an official association endorsement of the products or services offered by a sustaining member. Sustaining members shall have preference to exhibit space at the annual meeting and shall, upon request, have the firm or company name listed in each issue of "The California Surveyor" under the heading "Sustaining Members" for the year of current membership.

The dues for the proposed membership are as follows:

- Life Member - No dues.
- Honorary Member - No dues.
- Sustaining Member - \$100.00 per year with entrance fee required

Committee Members: Richard J. Stephan, Robert E. Jacobsen

Robert W. Curtis, L.S.  
Chairman

## SECRETARY-TREASURER REPORT

October 10th, 1969

Membership in the Association now stands at 314. It is divided as follows:

|                     |            | VOLUNTARY ASSESSMENTS     |         |                   |
|---------------------|------------|---------------------------|---------|-------------------|
|                     |            | NO.                       | AMOUNT  | TOTAL             |
| Private Practice    | 196        |                           |         |                   |
| State Employees     | 33         |                           |         |                   |
| County Employees    | 20         |                           |         |                   |
| Municipal Employees | 18         | 12                        | \$ 5.00 | \$ 60.00          |
| District Employees  | 5          | 72                        | 10.00   | 720.00            |
| Utility Employees   | 4          | 1                         | 12.50   | 12.50             |
| Education           | 3          | 6                         | 15.00   | 90.00             |
| Federal Employees   | 3          | 13                        | 20.00   | 260.00            |
| Associate Members   | 32         | 6                         | 25.00   | 150.00            |
|                     |            | 3                         | 50.00   | 150.00            |
| <b>Total</b>        | <b>314</b> |                           |         | <b>\$1,442.50</b> |
| Northern Area       | 225        | Total approx. 35%         |         |                   |
| Southern Area       | 89         | of membership responding. |         |                   |

## FOR DIRECTOR



EUGENE L. FOSTER

Eugene L. "Gene" Foster was born Nov. 6, 1912 in Reedley, California.  
 Started his land surveying career in 1934 with the Tulare County Surveyors Office.  
 Six years with the U.S. Bureau of Public Roads.  
 Six years, surveyor for United Geophysical Co., Pasadena.  
 Six years with Stoddard and Karrer, civil engineers.  
 Licensed in 1953 in both California and Oregon.  
 Nine Years self-employed in private practice of land surveying 1955-1964.  
 Four years with State Water Resources.  
 Two years with State Lands Division.  
 17-year member of ACSM.  
 Charter member of CLSA.

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# SUCCESSFUL APPLICANTS PASS WRITTEN EXAM FOR LAND SURVEYOR LICENSES AUGUST 15-16, 1969

## NORTHERN CALIFORNIA

Anderson, John 1352 N. Shaw's Flat Rd., Sonoma  
Anderson, Larry 969 Teresita Blvd., San Francisco  
Arreola, Ralph 1122C San Pablo, Albany  
Atcherry, Shirley 1807 Tanglewood Lane, Roseville

Beam, Norman 16021 Winterbrook Rd, Los Gatos  
Berini, Robert 5853 Fredricks Rd, Sebastopol  
Berzins, Olgerts 1585 Calaveras Ave., San Jose  
Brittnacher, Donald 8416 Mediterranean Way, Sacto.  
Bufton, Donald 5255 Herbert Drive, San Jose  
Bunce, Donald 46925 Bradley St., Fremont

Chatfield, Dan 1600 Walnut, Redding  
Clark, David 1507 North St., Berkeley  
Coplantz, John 141 Lee Ave., Livermore  
Crooks, Myron 249 Eureka Canyon Rd., Watsonville

Daley, Norman 1974 - 42nd Ave., San Francisco  
Dawson, Rodney 1551 Keko Ave., Oroville  
De Nott, Bruce Post Office Box A-81, Twain Harte  
Doble, John 1010 Michigan Drive, Santa Rose  
Dunbar, George 2839 Estates Dr., Aptos

Evans, Charles 621 Waldo Rd., Campbell

Fox, Alton 116 Harvard St., Santa Cruz  
Friar, Larry Post Office Box 297 Sutter  
Fulton, James 2673 Hawn Ave., Redding

Goetz, Gary 1312 Lawton Ave., Pacific Grove  
Goff, Archie 1028 Alameda de las Pulgas, Redwood City

Hubbard, Everett 6462 Kimberly Drive, Redding

Killmeyer, Herbert 696 Emory Ave., Campbell  
King, Guy 936 Lambaren St., Livermore

LeVier, Lester 7049 River Drive, Redding  
Linn, Norman K. 1763 Sharon Drive, Concord  
Lippincott, Gary 1354 Elliott Rd., Apt. 36, Paradise

Mann, Kenneth Post Office Box 985, Truckee  
Marum, William Post Office Box 1076, Tahoe City  
McDonald, Harold 217 D St., Biggs  
Miller, Ralph Post Office Box 1062, Auburn

Nelson, James 1807 Farm Bureau Rd., Concord

Otterbeck, George Box 250, Kneeland 95549

Ralph, Robert J. 2040 Vesta Way, Sacramento  
Randall, Charles 1035 Rilma Lane, Los Altos  
Rogers, Wayne 5168 Norma Way, Livermore  
Rondeau, Robert 5115 Leigh Ave., San Jose  
Rose, Merwin 1249 41st Avenue, Sacramento

Shannon, Wesley 13 Ancho Vista, Apt. B, San Anselmo  
Solem, Donald c/o 1125 Bell St., Sacramento  
Solheim, Donald 559 Laurel Drive., Yuba City  
Stadter, Wallace 1147 Crestview Drive, Fortuna

Taylor, John 1380 Lichen Court, Concord  
Thorne, Everett 6309 Pattypeart Way, Carmichael

Wengler, Kenneth 3984 Roesner Ave., Redding  
White, Gerald 623 North Lassen St., Willows

Young, Henry 1027 Lucot Way, Campbell

Zoll, Hendrik 2040 Carpenter Lane, Redding

## SOUTHERN CALIFORNIA

Babb, Eddie 5103 Lillian St., Torrance  
Baron, Robert P.O. Box 213, Independence  
Beuer, William 15909 E. Fairgrove Ave., La Puente

Carr, Richard 3500 Eisenhower St., Bakersfield  
Chappell, Walter 333 North Nora, West Covina  
Clarke, William 1238 Orde Court, Chula Vista  
Crowe, Fred 8682 Hayden Court, Riverside  
Cunningham, Donald 8521 Columbus Ave., Sepulveda

Geddis, William 38653 Yucca Tree, Palmdale  
Gierloff, Ronald 716 Renwick Rd., Glendora  
Goon, Charles 3944 Rio Hondo Ave., Rosemead

Henke, Douglas 4902 Diane Court, San Diego  
Hodson, Robert 474 A Court, Colton  
Hovey, Miles 329 South Sparks St., Burbank  
Hunter, Robert 38810 Foxholm Drive, Palmdale

Kiger, Hope 438 Beech St., Arroyo Grande  
Kinneavy, Lawrence 265 North Broad St., San Luis Obispo  
Kintner, Dean B. Post Office Box 291, Atascadero

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Mayhew, Thomas 1257 Keniston Ave., Los Angeles  
McCook, Owen 81-304 Green Ave., Indio  
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Mulvey, Barbara 118 El Dorado St., Arcadia  
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Scholz, Edward 917 Decatur Ave., Ventura  
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Wilt, Bruce 906 Wigwam Ave., Arcadia  
Wittwer, Leo 11033 Monogram Ave., Granada Hills

Young, Eddy 15068 Mountain Spring St., Hacienda Heights

4. In 1966, what stand did the California Land Surveyors Association take concerning the profession of land surveying?

The California Land Surveyors Association is the first and only professional association of land surveyors in California. As noted in the paragraph on History, there have been many quasi-professional organizations in California primarily concerned with the technical aspects of surveying, or business and social activities.

The California Land Surveyors Association feels that a professional association is one that provides incentives and encourages the self-discipline necessary to best utilize specialized knowledge in the service to society. The first formal action aimed at attaining these objectives was the adoption on September 30, 1966, by the Association of the following resolution:

#### STATEMENT OF POSITION

- A. The California Land Surveyors Association feels that Land Surveying is a separate and distinct profession from Civil Engineering.
- B. The California Land Surveyors Association feels that the continued identity of the Land Surveying profession is necessary for the protection of the public interest.
- C. The California Land Surveyors Association is unalterably opposed to the elimination of the Land Surveyors license in California.
- D. The California Land Surveyors Association opposes any modification of any facet of the Land Surveyors Act by any business, engineering, or legislative groups without consultation and approval by a majority of licensed Land Surveyors.

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It seems to me that, in view of our above stated position, we should face up to the fact that our goals and objectives, where the profession of land surveying is concerned, are diametrically opposed to those of the American Society of Civil Engineers and, as tough as it may seem, we cannot under any circumstance compromise that position.

5. Why did the Association, in 1969, attempt, legislatively, to remove the civil engineer exemption from the Land Surveyors Act?

Simply because the Association, reasoning as a truly professional body of men, recognized the bad situation where there are two kinds of people practicing a profession --- one experienced, well-recommended, examined (16 hour examination), and licensed; the other not necessarily educated in that profession, not necessarily experienced in that profession, not examined in that profession, not licensed in that profession, and, by statute, allowed to practice in that profession solely on the basis of having been registered in another profession.

6. Why did the civil Engineers oppose the Association's 1969 proposed legislation?

Mainly for the reason that the Association, in calling widespread attention to a serious problem, was also throwing up a roadblock in the path of the A.S.C.E. plan to absorb the land surveying profession into the civil engineering profession. I think, too, that many civil engineers really believe that it is the next thing to illegal for the legislature to take away this right to practice land surveying without a license. How on earth could the legislature act without taking something away from someone?

## ONE DOZEN AND ONE QUESTIONS WE SHOULD ASK OURSELVES BEFORE COMPROMISING OUR POSITION

1. In 1939, why did the civil engineers have themselves exempted from licensing by Section 8731 of the Land Surveyors Act?

Because the land surveying profession is not a part of the profession of civil engineering, thus it would be necessary for them to either be exempted or pass the L.S. examination and be licensed.

2. In 1959, why did the civil engineers include land surveying in the definition of civil engineering?

Mr. William A. White, a civil engineer, and Executive Director of the California Council of Civil Engineers and Land Surveyors, in speaking to the Illinois Registered Land Surveyors Association stated that the Council had this legislation passed in order to conform to the policy expressed in the conclusions and recommendations of the A.S.C.E. Task Committee Report on the Status of Surveying and Mapping in the U.S.A. Mr. White, in the Executive Director's Report to the California Council, stated the reason for this legislation as being to make it easier for the civil engineering profession to police its own members practicing under the Land Surveyors Act. This last statement was an admission of some sort and was absolutely unnecessary because policing regulations were already set up in the Land Surveyors Act to police the practice of land surveying, by anyone.

3. In 1959, what stand did the American Society of Civil Engineers take with respect to licensing of land surveyors?

The conclusions and recommendations of the A.S.C.E. Task Committee on the status of Surveying and Mapping in the U.S.A. stated that, at some time in the future, land surveying should become a moral right of the civil engineer based upon the civil engineer's ethic that he may practice in the field in which he believes himself to be competent, rather than the legal right based upon competence proved by examination and licensing. It is my opinion that if the above is true, then examination and registration of civil engineers may also be abolished. The task Committee went on to recommend that all State Registration Boards and interested parties do those things necessary to, as soon as possible, discontinue the examination and licensing of land surveyors. Ten years later, we are today suffering from the influence of that recommendation.

7. Is the joint A.C.S.M. - N.C.E.E. approval of the Model Registration Acts for Land Surveyors and for Civil Engineers a repudiation, by A.C.S.M., of its approval of the A.S.C.E. Task Committee Report of 1959?

Yes. Perhaps not deliberate, but yes. Approval of the Task Committee Report by A.C.S.M. was not unanimous. Two very good friends of mind, Fred Darby and Curtis Brown, were directors at the time and both voted against approval. Since that time, A.C.S.M. and the National Council of Engineering Examiners have worked hard under the guiding hand of William S. Kelly, Jr. to improve Land Surveyor registration throughout the nation. Those efforts culminated, last year, in the Joint A.C.S.M. - N.C.E.E. approval of the Model Registration Act for land surveyors which contains no provision for the exemption of civil engineers from licensing.

8. Do all the states in the United States have laws to register or license land surveyors?

Yes. Recently the state of New Hampshire adopted laws regulating land surveying and licensing land surveyors. That, finally, made it possible to say that all 50 states now register or license land surveyors. To me this would indicate the recognition of land surveying as of vital importance as a profession. Also, this trend seems to run counter to the A.S.C.E. proposal to do away with land surveyor licensing.

9. How many states allow only licensed or registered land surveyors to practice land surveying?

I don't know. Several years ago there were sixteen states which definitely allowed no one but licensed or registered land surveyors to practice land surveying. My estimate today would be about 35.

10. What is Plan "A" and when was it first proposed?

As far as I know, Plan "A" was first introduced in 1966 by a committee composed of the Consulting Engineers, Professional Engineers and the California Council. It was titled "Proposal to Modify the Land Surveyors Act" and it advocated (a) invalidation of all existing land surveyors licenses, (b) registration of all existing land surveyors as civil engineers, (c) certification of all resultant civil engineer-land surveyors and land surveyor-civil engineers to do only land surveying (which they could, all, already do, legally), (d) making it prerequisite that all future land surveyors be registered first as civil engineers and (e) transfer of regulation of land surveying corporate practice to the Professional Engineers Act. Nothing was mentioned concerning the land surveyor examination but it follows logically that there would be no further necessity for it. After grandfathering all land surveyor and qualified C.E.'s into the Land Surveyor certificate of competency, all future candidates would be registered civil engineers who could qualify for the title "land surveyor" "under rules established therefor by the board". This could not possibly mean an examination since civil engineers are not now and never have been barred from taking the L.S. examination. I will not support Plan "A" without a 6-year change over period during which the examination and licensure will continue to be kept open for the accommodation of the thousands of potential land surveyor candidates who have already accumulated 1, 2, 3, 4, 5, or 6 years of qualifying experience.

11. What about Plan "F" ?

Plan "F" was the plan overwhelmingly preferred by the California Land Surveyors Association. Under this plan, (a) the civil engineer exemption was repealed, (b) qualified civil engineers were grandfathered into land surveying and (c)

qualified land surveyors were grandfathered into only urban subdivision design area of civil engineering practice.

12. What are the prospects for passage of Chartered Engineers legislation?

Practically none, Chartered Engineers is a pipe dream. In 1967 Senator Dolwig was one of the authors of the bill. He told me that he had a violent dislike for it. I have been told repeatedly by people in government that no governor in his right mind would sign such a bill, even if it passed in the legislature. It may work in Canada but not in California. Separate the licensing authority from the government and nothing will stop it from become self-interest. A legislator stood up, at the Santa Barbara Conference and told us all about it.

13. What should the California Land Surveyors Association Do?

I think the association should take a second look at their proposal. They may not realize how really right it is. I've been told by two legislative advocates, who have paid particular attention to AB 2296, that it seems so right that they fail to see why it did not pass. I think the reason is that the grandfather clause is ineffective and should have been left out anyway.

Many people seriously believe that you can't take away, legislatively, a privilege such as that which the civil engineers seem to think they enjoy. We paid a legislative analyst \$500 to tell us that the legislature can change the statutes at any time. The legislature takes something away from someone every hour they are in session. It is like saying "Plan A cannot take away our land surveyor licenses and make it impossible for anyone except a civil engineer to become a land surveyor." Plan A can do this and it is about time we started believing it.

It would be better not to use a grandfather clause and it would be better not to meddle with the Professional Engineers Act. Without a grandfather clause no appropriation of money would be needed which drags up all sorts of problems.

AN ACT TO AMEND SECTIONS 8730 and 8731, TO ADD A NEW SECTION 8732 AND TO REMOVE CERTAIN WORDS FROM THE LAND SURVEYORS ACT

(Chapter 15, Division 3 of the Business and Professions Code)

REPEAL SECTION 8730

REPEAL SECTION 8731

ADD SECTION 8730 to read: Any civil engineer in this State whose registration under Chapter 7, Division 3 of this Code was effective on June 30, 1970 may engage in the practice of land surveying with the same rights and privileges, and the same duties and responsibilities of a licensed land surveyor until June 30, 1974. After that date, only (a) Officers and employees of the United States of America, practicing solely as such officers or employees, (b) state, county, city, or district employees, while directly responsible to a licensed land surveyor, and (c) subordinates to a land surveyor licensed as required by the laws of this state, insofar as they act as subordinates, shall be exempt from licensing under this chapter.

ADD SECTION 8731 to read: A registered civil engineer is not required to be licensed under this act to perform surveys associated with fixed works, including but not limited to, surveys for control, photogrammetry, and construction; provided that such surveys do not include property lines, boundary lines, right of way, easements, or any survey to describe, locate, establish or perpetuate the ownership of land or its public record.

ADD NEW SECTION 8732 to read: No person in this state who has been issued a license to practice land surveying shall be required to be registered as a civil engineer according to the provisions of Section 6730, Chapter 7 of Division 3 of this code to practice land surveying defined as being included in the practice of civil engineering in Section 6731 of Chapter 7 of Division 3 of the Business and Professions Code.

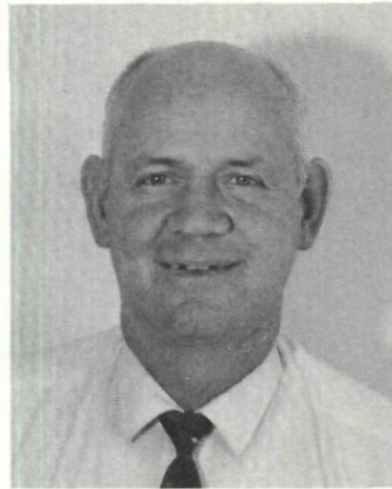
**DELETE THE FOLLOWING WORDS FROM THE LAND SURVEYORS ACT**

(Chapter 15, Division 3 of the Business and Professional Code)

- Section 8705. Delete the words "or registered civil engineer" in two places.
- Section 8729. (As amended by the Statutes of 1969) Delete, in the first paragraph, the words "or a civil engineer registered pursuant to the provision of Chapter 7 (commencing with Section 6700) of Division 3 of this code", the words "or civil engineer" and replace the word "entitled" with the word "licensed". Delete, in the second paragraph, the words "or registered civil engineer."
- Section 8743. Delete the words "or civil engineers".
- Section 8760. Delete the words "or registered civil engineers."
- Section 8761. Delete the words "or registered civil engineer." in two places.
- Section 8762. Delete the words "or civil engineer" and "or registered civil engineer".
- Section 8764.5 Delete the words "or R. C. E."
- Section 8768. Delete the words "or the registered civil engineer".
- Section 8771. Delete the words "or registered civil engineer" in two places.
- Section 8772. Delete the words "or registered civil engineer", "or civil engineer" and "or R. C. E.", respectively, as the case may be".
- Section 8775.1 Delete the words "registered civil engineer or" in two places.
- Section 8780. Delete the words "or registered civil engineer, respectively" and "or registered under the provisions of Chapter 7, Division 3 of this code".

REPEAL ALL OF SECTION 8804

## FOR DIRECTOR



WILLIAM O. GENTRY

Born March 1, 1923 in Ardmore, Oklahoma

Have worked on Surveying Projects from military base installations in the Majave Desert at beginning of World War II; to the Southern-Pacific Railway Company - San Joaquin Division Engineering Department (18 years associated with J. A. Ross).

14 years member of California Council of Civil Engineers and Land Surveyors, both State and Local Chapters. Now serving on Academy of Surveyors and Education Committees.

14 years member of American Congress on Surveying and Mapping, (Director, Secretary-Treasurer and Chairman of Northern California Section), member of American Society of Photogrammetry.

2 years member Oakhurst Chamber of Commerce. Active in Cultural Arts, Industrial, Transportation, and Real Estate Research Council Committees).

Past President of Citizen's Band Radio Club of Fresno.

Member of Four Wheel Drive Club of Fresno (served as Treasurer and Communications Chairman). Member of Fresno County Sheriff's Rescue Unit and Fresno County Civil Defense Group.

LICENSED IN STATE OF CALIFORNIA - L.S. 2737

Owner of firm of W. O. Gentry, Licensed Land Surveyor in Fresno, California.



## 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 it's 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.
7. To promote and stimulate leadership in public service on a community, state and national level.
8. To promote and maintain an effective and continuous program of expanding our knowledge of social and technical advances.
9. To protect the professional reputation, prospects and practice of another profession with the same vigor and determination as he would his own.
10. To manage his professional ethics with the courage to uphold his integrity over all other considerations .

11. To publish thoughtful and subdued public announcements free from ostentatious complimentary or laudatory implications. Professional cards, brochures, posted projects, press releases of worthy news items and project participation notices are acceptable forms of public announcements.

The above professional code was adopted by the Board of Directors October 19th, 1968 at Ventura, California as the Official Code of Ethics of the California Land Surveyors Association.

## USE OF THE NEWSLETTER

This is your newsletter. Please use it for announcements, inquiries, personal news, committee or chapter news, surveying as well as other items of interest. A short summary of committee or chapter activities at all levels is particularly requested. Suggestions for the improvement of the publication and all contributions will be appreciated.

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## The California Surveyor

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