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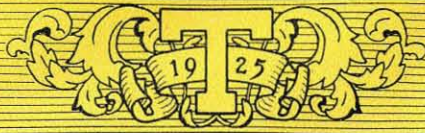


The
BIG T
1925



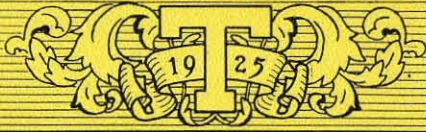
VOLUME XIV

Published by
The Associated Student Body
of the
California Institute of Technology



IN MEMORIAM
PERCY HALLETT
MERIDAN BENNETT
RAYMOND LOHSE





CONTENTS

THE INSTITUTE

CLASSES

THE YEAR

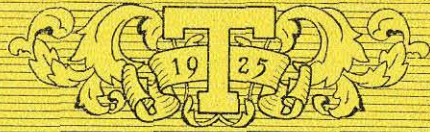
ATHLETICS

OTHER ACTIVITIES

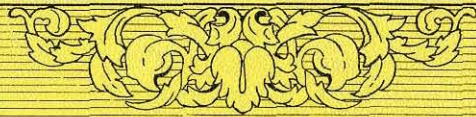
ORGANIZATIONS

HUMOR

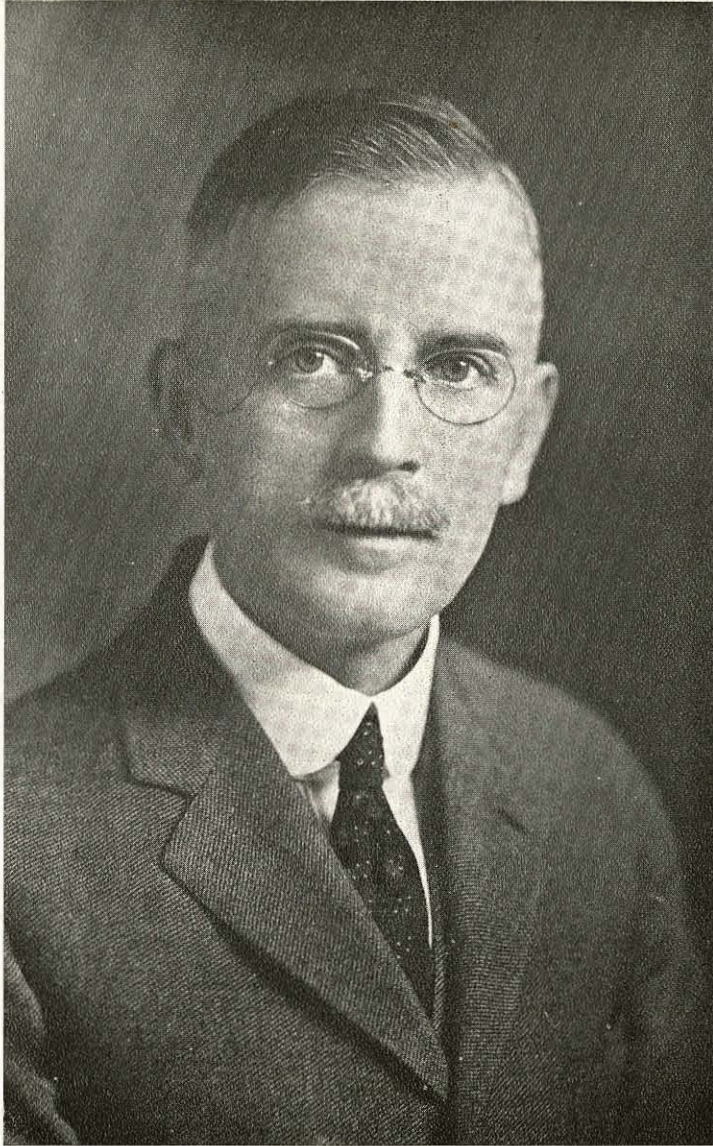


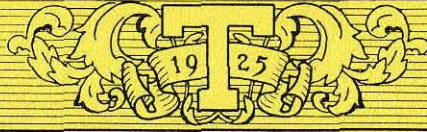


To
DEAN JOHN R. MACARTHUR,
*whose spirit of unobtrusive
friendship and unfailing wil-
lingness to extend a helping
hand wherever needed has en-
deared him to all with whom
he has come into contact, this
book is affectionately dedi-
cated.*



19 25

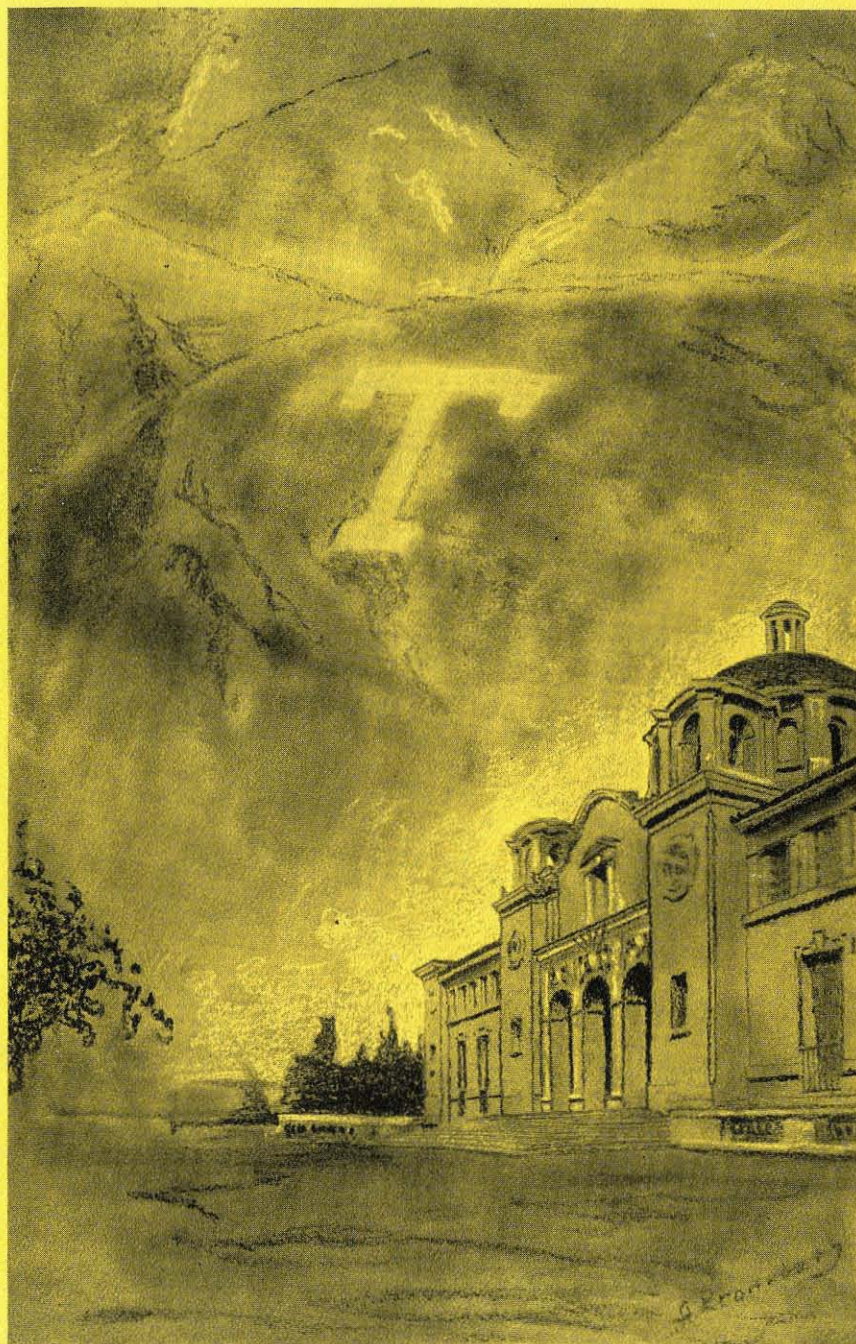




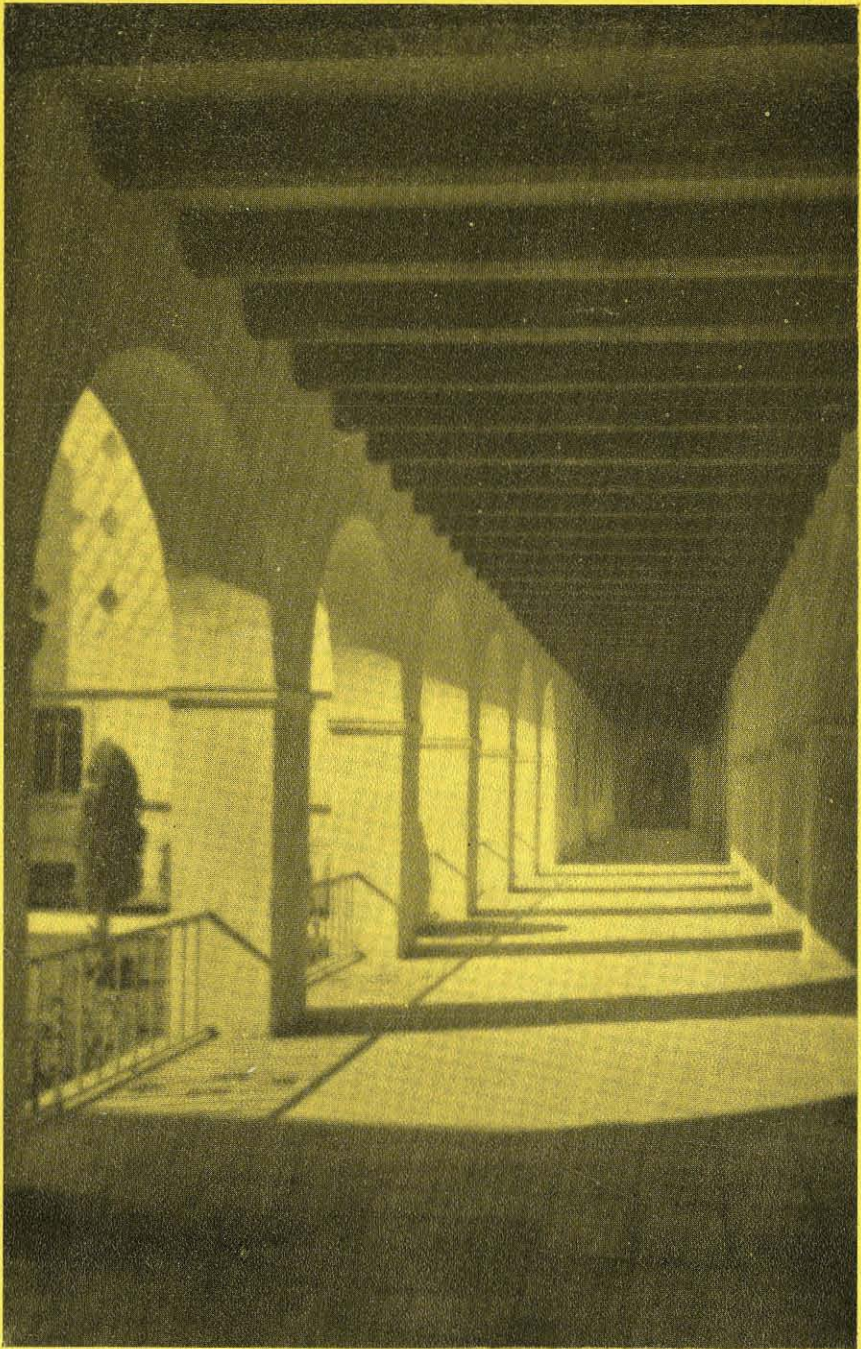
*"Yet oftentimes the memories
most dear are those which,
half forgotten, are called to
mind by some hasty, scribbled
word"*—BAXTER.

May the 1925 Big T serve
as a perpetual reminder of
the happy years of work and
play which marked our brief
pause within the walls of Tech
before stepping forth to take
our place in the world of men.

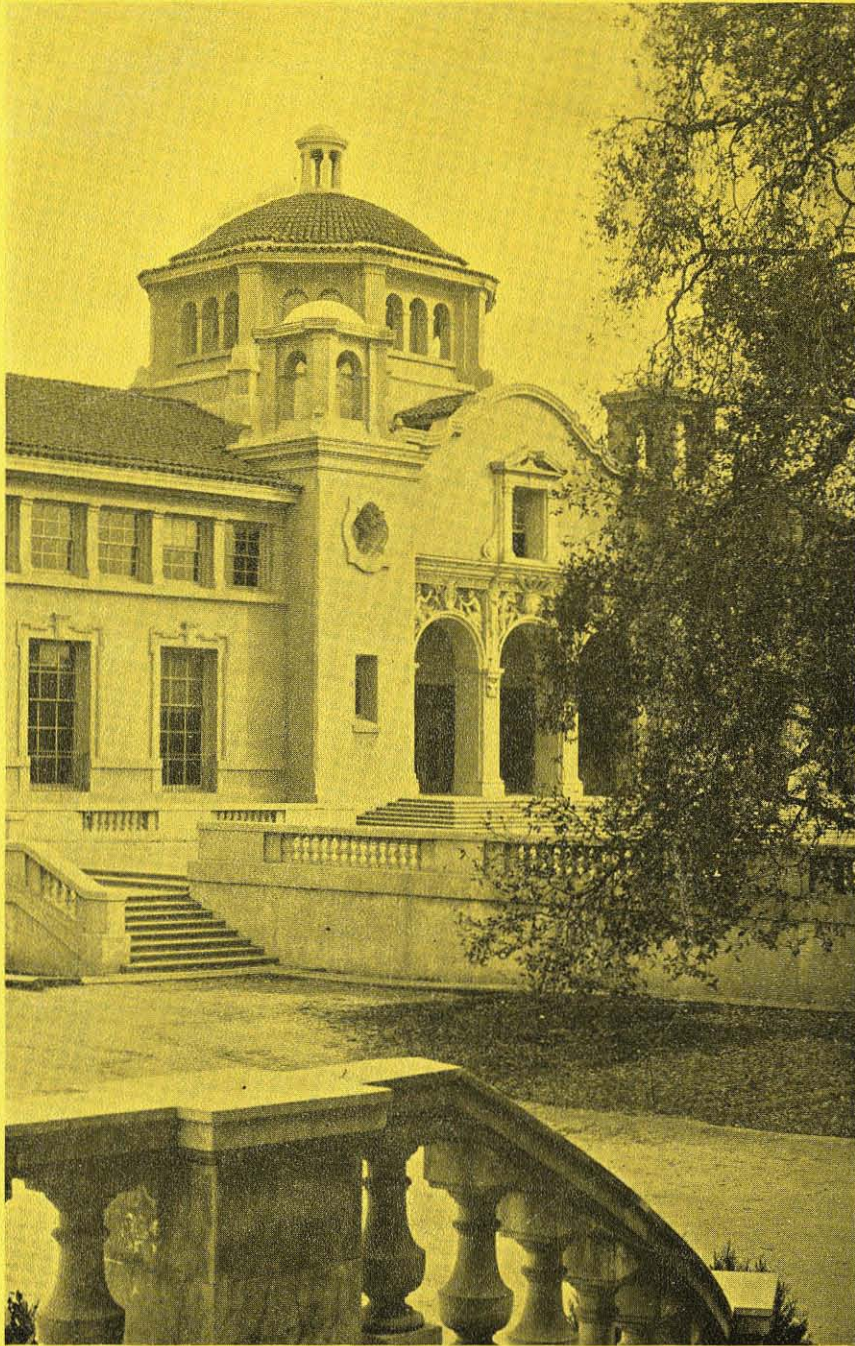




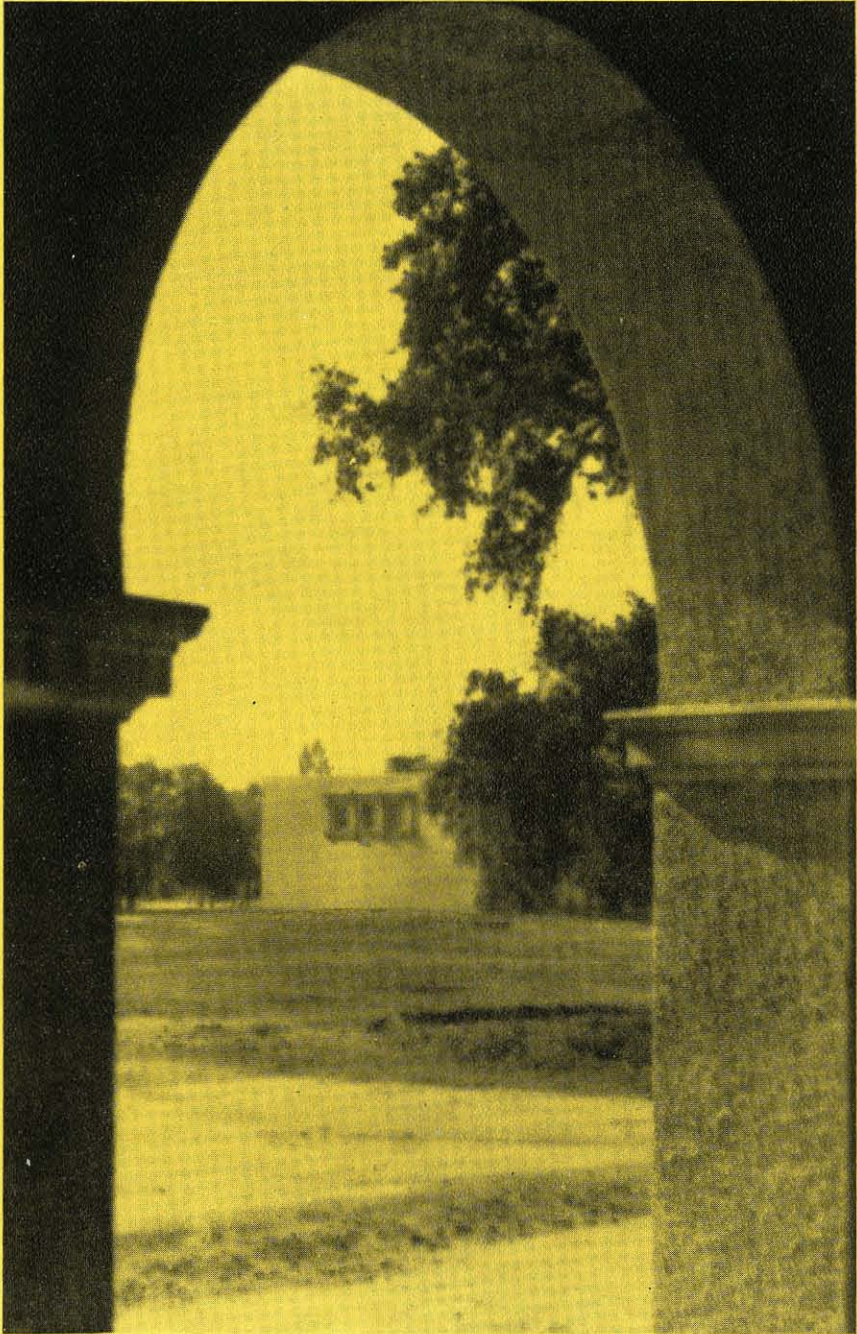
*Beneath the symbol on the mountain side,
Our Alma Mater stands with stately pride.*



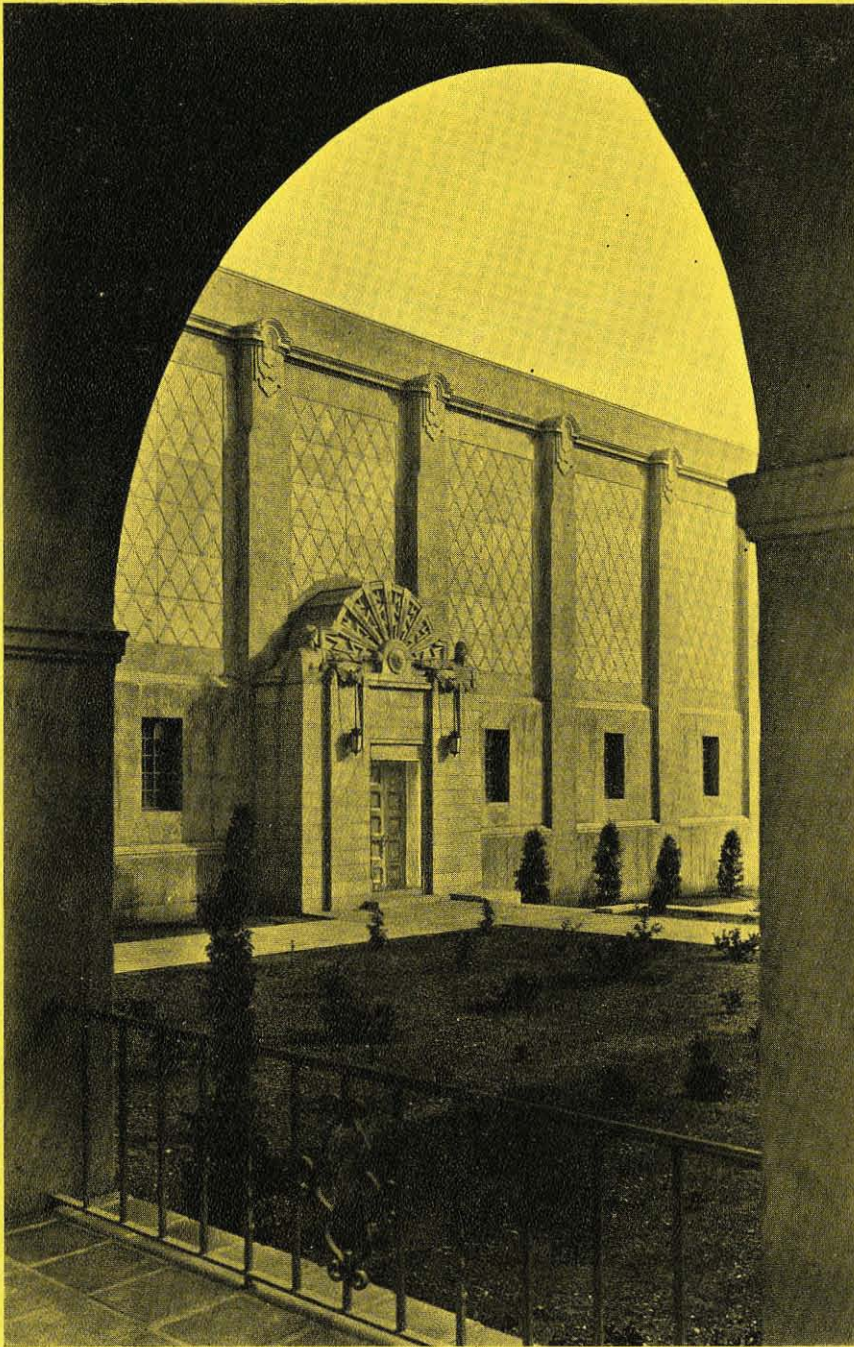
*Thru shadowed arcades trod by eager men
Who seek, who find, who go to teach again.*



*The mem'ry of old Father Throop lives on,—
So live our deeds long after we are gone.*



*Here Muses ply their arts of varied kind
To ease the cares and soothe the wearied mind.*



*Where flashing bolts of heav'nly fire are chained
And added to the lore that men have gained.*



*Those brilliant walls where deep-set shadows lie,
Like Moorish art, 'neath sunny Spanish sky.*



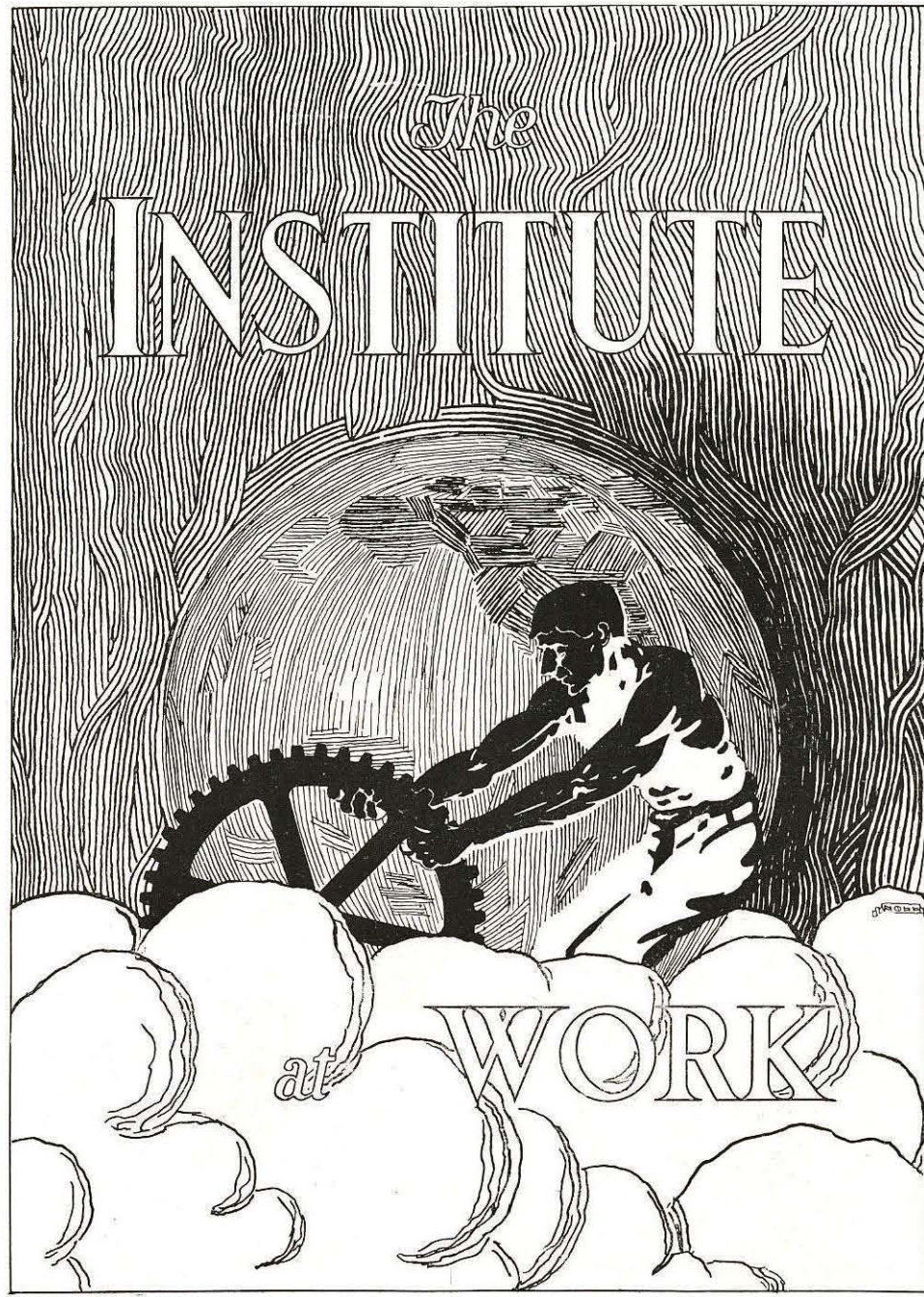
*The fount of learning beckons old and young,
Inviting each to cool his parched tongue.*



*A monument, we point to it with pride,
Conceived by one departed from our side.*

The T The T

The
INSTITUTE



at WORK

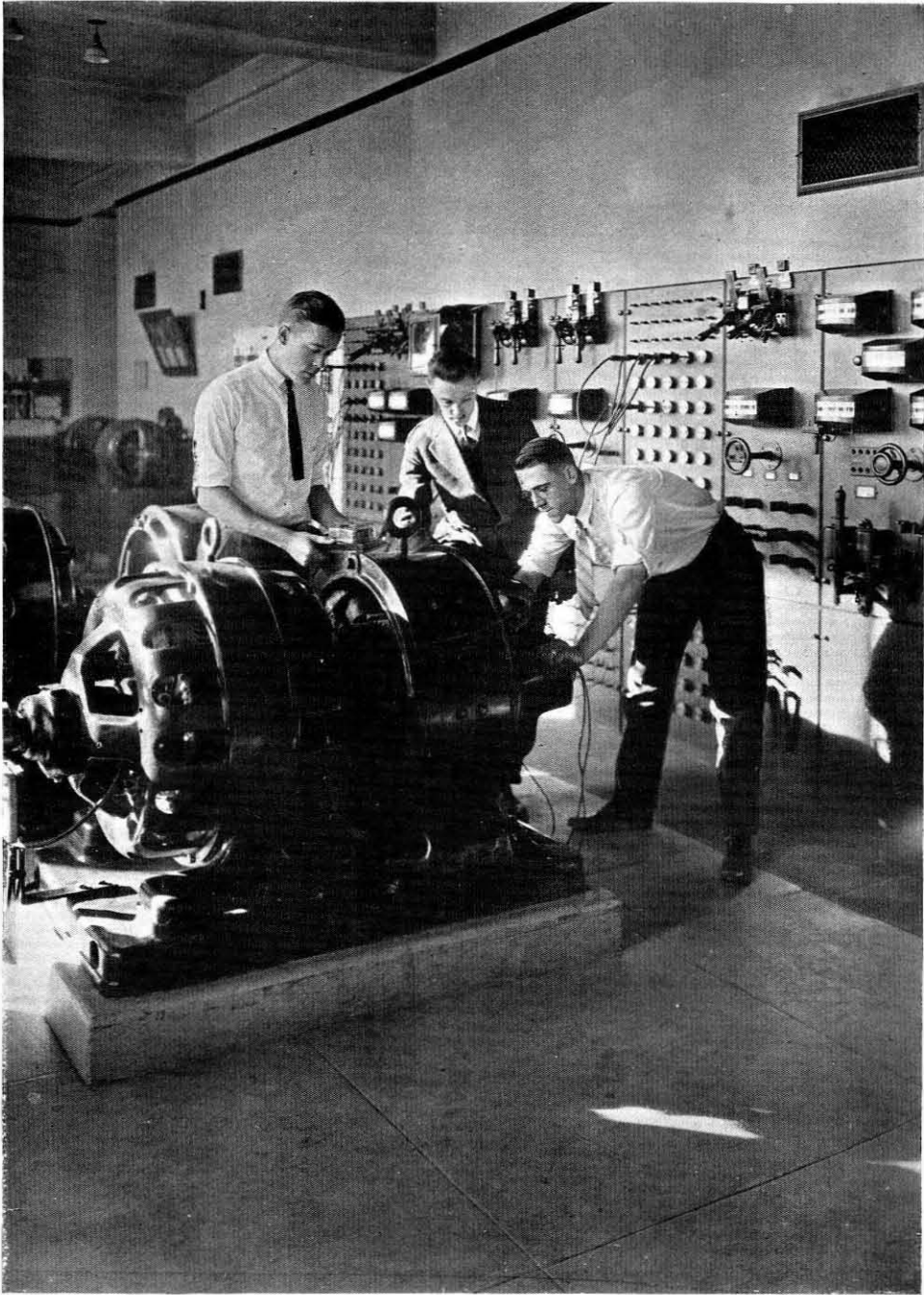
ELECTRICAL ENGINEERING DEPARTMENT

THE popularity of the electrical course is well shown by the fact that one-third of the entire student body is enrolled in electrical engineering. In times past both civil and mechanical engineering have had their days of extreme popularity but today with an ever increasing number of uses being found for electricity, electrical engineering is drawing the largest number of students.

The new million volt laboratory is symbolical of this interest and growth in electricity, and it is hoped that the laboratory will be the means of still further improvement and advance in the science of electricity. The million volt transformer used in the High Voltage Laboratory differs from standard transformers in that it is made up of four 250,000 volt units connected in series by means of a special connection known as the cascade connection. This connection was originated by Professor R. W. Sorensen of the Institute and its invention made possible the first 1,000,000 volt system ever designed. Without this Cascade connection of Professor Sorensen's it is practically impossible to get over a million volts, due to difficulties of insulation and construction.

Work in voltages of a million and over is still in its infancy and there are a great many experiments being carried on in the High Tension Laboratory by members of the graduate school, faculty, and some undergraduates of the "Juice" course. Among the most interesting of these experiments are the ones on insulators, high tension vacuum switches, flash-over, and the construction of a million volt volimeter.

Most of the undergraduate work is carried on in the normal voltage laboratory, to which it was found necessary to make an addition this last year, due to the increased number of men registering in the electrical course. The thesis work for the Senior Electricals consists of the design of various types of electrical machinery. The student is required to make a complete design of a generator, motor, transformer or some other equally complex piece of machinery, and the design must be correct not only in the theory applied but also must be practical in its construction. Naturally, work of this type gives the man a great deal of valuable experience that will stand him in good stead in his later professional career.



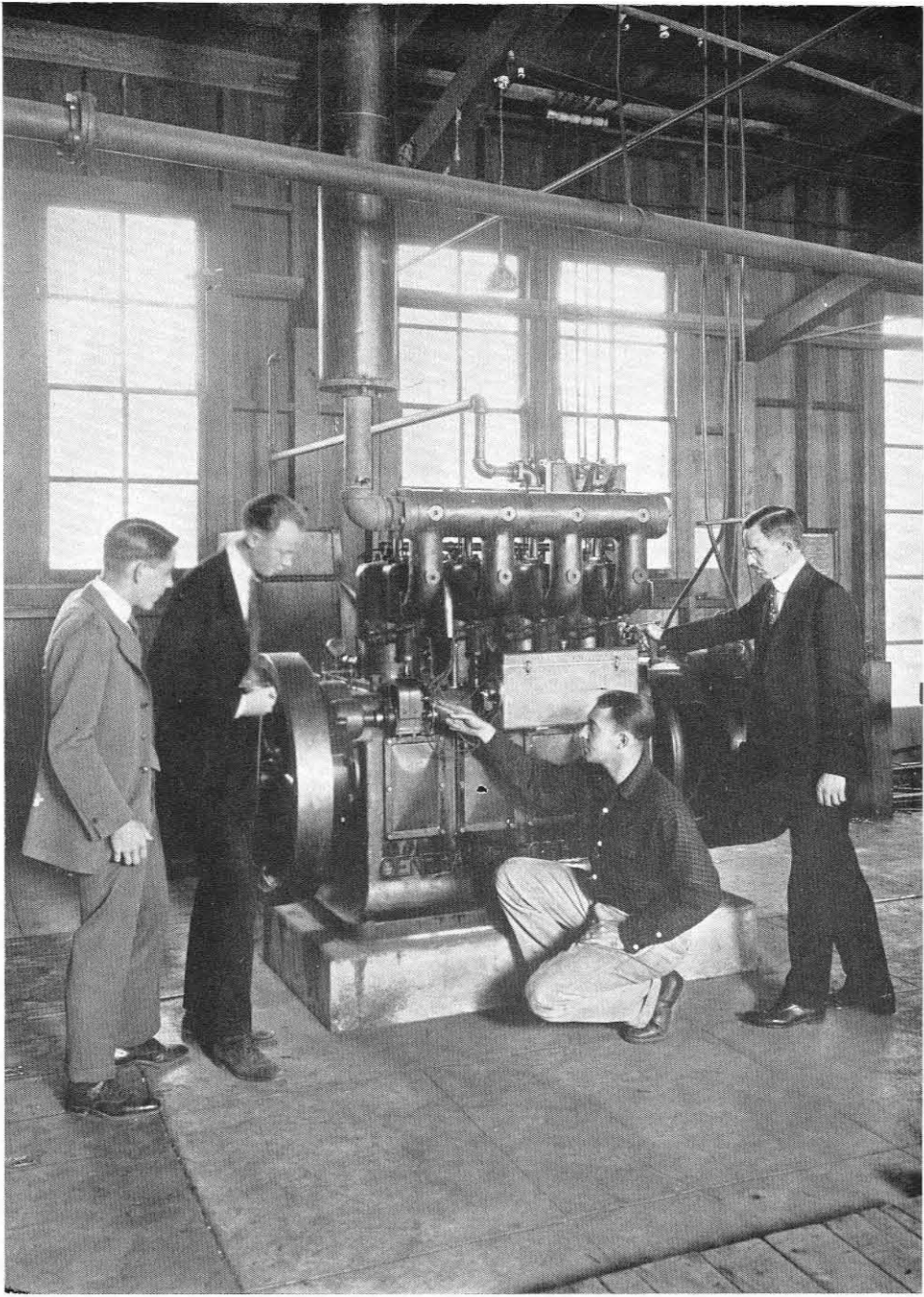
MECHANICAL ENGINEERING DEPARTMENT

LIKE all other phases of engineering, mechanical engineering is becoming more comprehensive every year with the increased complexity of modern life. Consequently in their senior year the men taking up mechanical engineering are given the opportunity of performing many varied and interesting experiments and problems which bring out the essential features of the work in store for them and correlate all of the knowledge obtained in their first three years of college.

One of the most interesting of these experiments is the testing of lubricating oils, in which the Kingman bearing machine is used to test the relative lubricating values of different oils at different speeds and temperatures. That this type of work is highly practical is shown by the fact that Professor Robert L. Daugherty of the Institute has just completed an eight months' series of tests for the Goulds Manufacturing Company of Seneca Falls, New York, on the subject of pumping oil with centrifugal pumps.

At the request of the Goulds Company Professor Daugherty conducted an investigation to determine the variation in the characteristics of a centrifugal pump in handling liquids of different viscosities and vapor pressures. In the tests which were conducted at the Union Oil Company's plant near Los Angeles, various liquids ranging in viscosity from water to cold residuum or from the least viscous to the most viscous liquids which can be handled by this style of pump were tested. The primary object of the tests was to determine the head, capacity and efficiency of a centrifugal pump as a function of the viscosity of the liquid pumped and to also find the effect of the variation of the vacuum in each case. The results of these tests have been published by the Goulds Company in pamphlet form and are a very important contribution to the science of mechanical engineering in general and pump design in particular.

In their last year, the "Mechanicals" are assigned special problems in machine design in place of a thesis or other phases of mechanical engineering. These problems are very conducive to originality and are likewise very instructive, as the student must make his design complete down to the most minute detail, and to do this he of course must be exceedingly familiar with the subject in hand. One of the problems chosen last year was the complete design of a five cylinder gas engine, while another problem was the design of a turbine driven locomotive. For this latter problem the student collected data from several big companies in the east and numerous data that had been published from experiments carried on in England and Norway. These are but two of the many interesting thesis problems chosen by the seniors, problems that do much to give the embryo engineer a taste of what he may expect to meet when he leaves college and enters the world of industry.



CIVIL ENGINEERING DEPARTMENT

TO those men who have a desire to build things, the Civil Engineering course offers a tremendously interesting field of work, for no matter whether it be buildings, bridges, roads or dams, all these works come under the general head of Civil Engineering. For the student who doesn't know just exactly what his bent is, the civil course, next to a general course, offers the broadest and most representative group of subjects for his study. In the junior year, the men are given an insight into the type of work required of a sanitary engineer, a highway engineer and a railroad engineer. The senior work, while principally design, gives also some idea of the problems encountered in the water supply for cities, and irrigation projects.

The thesis work of the graduating Civils is especially interesting, for the thesis cover a wide range of topics, some of original design and some in the nature of extensive research into a subject of general and vital interest. For instance, last year several men did research work on the possibility of using the Colorado River as a water supply for the city of Los Angeles, while others designed warehouses, elevators, chimneys and similar projects of great practical value.

The fact that civil engineering is a very much alive profession is brought home to the men at Tech by the fact that the new Linda Vista bridge over the Arroyo, built by the city of Pasadena, was designed by Professor R. R. Martel of the Institute. The bridge is not only of interest from a pure technical standpoint, but is also of interest because it is a very beautiful structure. In the design, beauty was the first requisite and Mr. Martel was called upon to draw up specifications for a bridge that would be sound technically and at the same time embody the particular lines as set down by the artists who were supposed to be authorities on the aesthetic properties of such structures.

Another reason for the interest of Tech men in the bridge is that several old grads have been employed in its construction. The bridge has a central span of two hundred and forty feet, with a rise of forty feet and is one of the largest concrete spans in the world. An allowance was made for earthquake shocks in the design of the expansion joints so that the bridge has one inch of play laterally but will resist any further sideward motion. Since it was designed by a Tech man, and since Tech men have worked on its construction, the bridge can well be said to be a fitting reminder to all "Civils" of what they may some day be able to do.



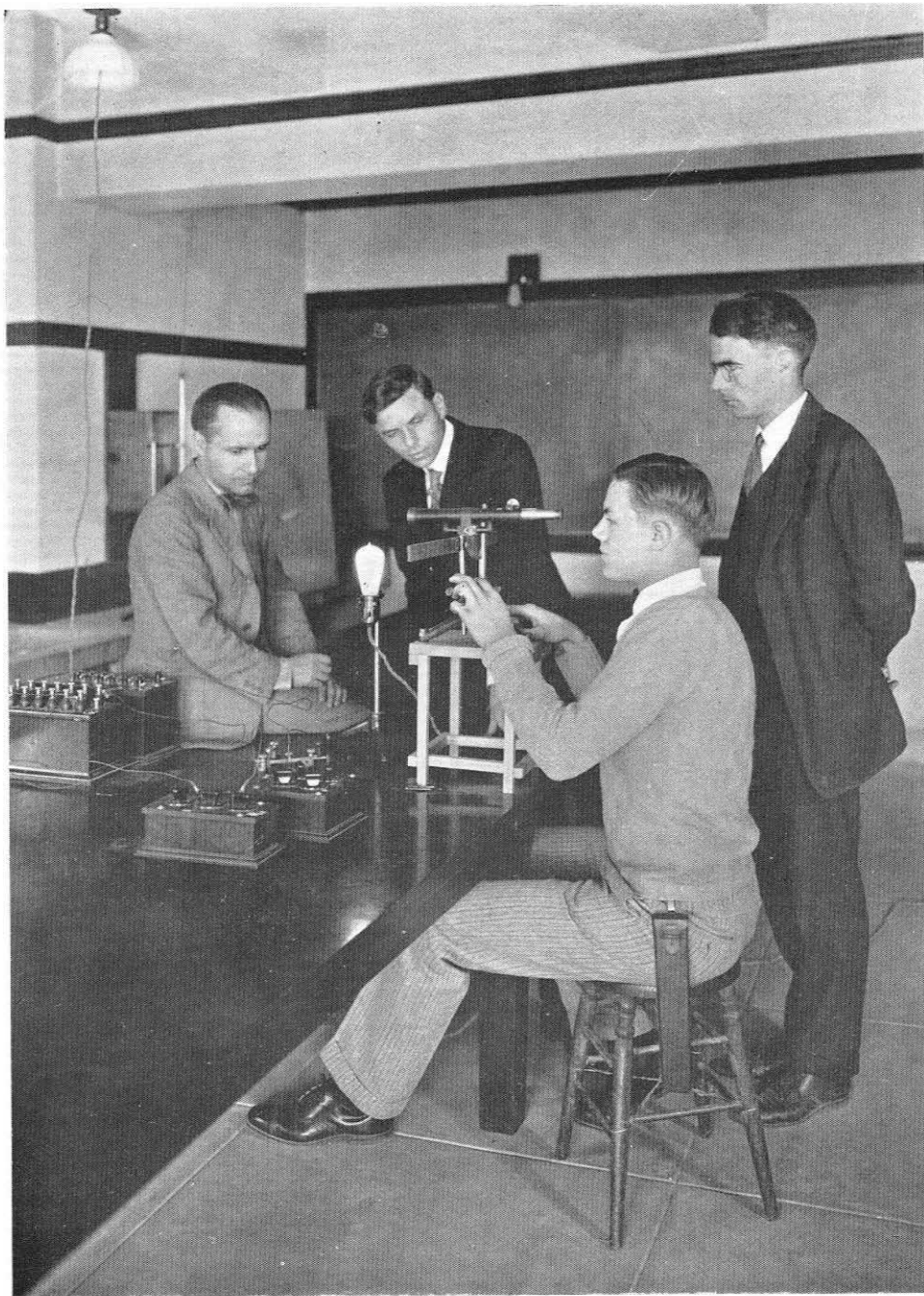
PHYSICS DEPARTMENT

IN speaking of the Department of Physics, one thinks first of the wonderful building which houses this branch of the Institute's work. The Norman Bridge Laboratory of Physics is one of the most complete and best equipped laboratories in the country, and affords an unusual opportunity to those men engaged in research within its precincts. The third unit is now completed, and provides numerous class rooms besides the usual research rooms.

Naturally in physics, as in all courses, the student must follow a rather definitely laid out curriculum, but it is the aim of the faculty to so far as possible surround the undergraduate with an atmosphere of research after the completion of his second year, and to allow him to follow his own inclinations as far as possible in the matter of choosing research subjects. The course known as Physics and Engineering is growing exceedingly popular and an ever increasing number of men are signing up for the combination of pure science and applied engineering subjects, some laying more stress on one side and some on the other.

Most of the men working on research problems are doing their work in conjunction with, and under the direct guidance of some prominent physicist, and thus are getting not only a knowledge of the subject in hand and a chance to work out their own ideas, but also an invaluable training in the methods of attack, by observing the processes by which the older and more experienced men handle their problems. This past year there have been several very interesting research problems investigated by undergraduates. One of the most important of these was carried on by William Dent, working on the theory and construction of a sodium voltmeter. Both Emerson Bailey and Joy Van den Akker did considerable research in the study of fluorescence in the extreme ultra-violet, while George Clapp worked with Wladimir Zaikowsky on the subject of internal combustion engines, studying the whys and wherefores of their eccentricities.

While it is impossible to give a very complete course in research work to the undergraduate, it is the plan of those designing the curriculum to give the student sufficient work along these lines to enable him to see just what the field is to be after graduation and to find out whether or not he desires to cast his lot with those searching for new discoveries in pure science or whether he wishes to adopt as his life work the more technical side known as engineering.

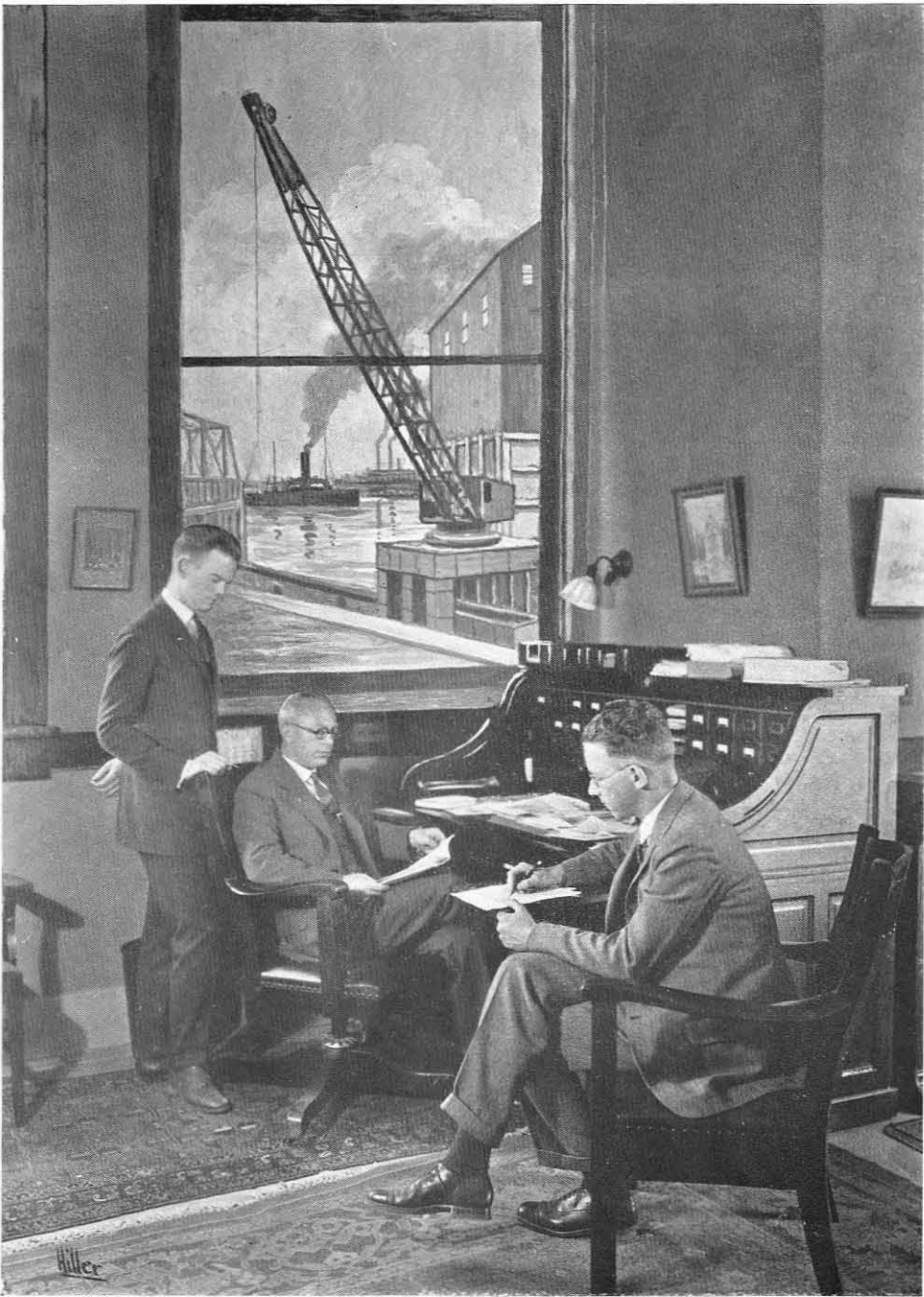


ENGINEERING AND ECONOMICS DEPARTMENT

THE Engineering and Economics Department differs from other departments not only in the nature of the work done but in its aims and results obtained. Other departments aim at teaching pure or applied sciences, thus fitting men primarily for research and development work, or for construction and operation. The aim of the Economics Department is to develop men fit for administrative work. These men are trained in engineering; they have learned to apply scientific methods to problems; and to think clearly and accurately. The administration of industries requires an alertness and ability to keep up with new methods, for it is a science in itself. This quality is obtained by the atmosphere of research and experiment surrounding the student. Actual observation and criticism of operating industries forms an important part of the work since it allows the student to apply his classroom knowledge and at the same time is a valuable exercise to develop his personal abilities.

For the man whose abilities are not of a strictly engineering type, this department will provide training enabling him to become an executive, preferably in an industrial or constructive concern. His acquaintance with the technical side of industry coupled with business training will provide the most efficient equipment with which to work. That business executives with technical training often hold more responsible jobs with higher salaries than the specialized engineer, is shown by the organization of large light and power, construction, manufacturing and similar concerns. Both types of men are required in the efficient carrying on of our complex economic system. The former type is, if anything, rarer, and should have careful training. It is believed that the basis of his training should be science and engineering, instead of wholly commerce as is the case in most courses elsewhere.

To Professor Laing belongs most of the credit for the development of this department. He has created something that is not only of great value to all engineers but is of itself, very interesting and appreciated by all. The ever increasing number of men taking up this phase of engineering is the best proof possible of the real value of the training offered in the business side of engineering.

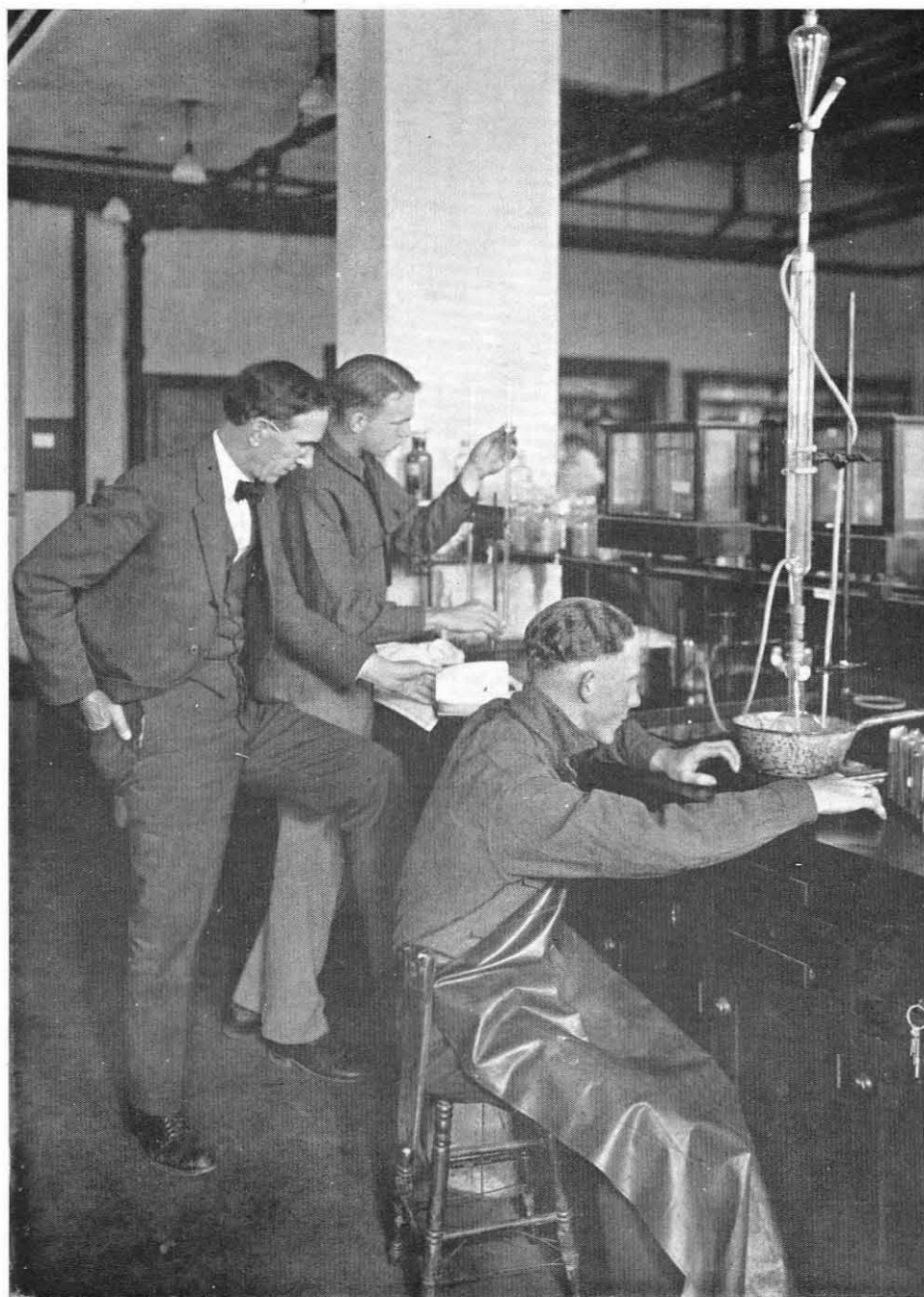


CHEMISTRY DEPARTMENT

AT the end of 1922, work was started on preparation of insulin, a substance little known at that time. A great deal of work was made possible by a grant about a year and a half ago of \$10,000 by the Carnegie Foundation. Work progressed here under Dr. J. J. Abel and Dr. Geiling of Johns Hopkins University. However, at the present time no work on the preparation of insulin is done, and all researches by H. W. Estill are carried out on samples obtained from an eastern firm making it commercially. Other work of great practical value has been done by Dr. Noyes and Robert Dalton. Dr. Noyes started work at M. I. T. in 1902 on a scheme of systematic qualitative analysis that would provide for the detection of all metallic elements. Considerable work was done at that time, and various students have worked on it intermittently up to 1921, when work was again taken up in earnest. The work is now practically completed and Dr. Noyes hopes to publish the system this summer. The value of the new system is that it provides especially for the detection of the rarer metallic elements.

Work of considerable theoretical interest is being done on the rate of decomposition of ozone by O. R. Wulf, the rate of decomposition of N^2O^5 by William Ure and active hydrogen by L. Merle Kirkpatrick. The results of these investigations will play an important part in building up the theory of decomposition. Other graduate research includes the study of ionization potentials by George Glockler, high temperature equilibrium by C. H. Prescott, free energy of cyanogen by A. E. Stearn, activation of hydrogen by collision of the second kind by A. C. G. Mitchell, and crystal structures by Huggins, Pauling, Hendricks and Emmett.

In the undergraduate world many problems are being attacked and among these might be mentioned the investigation of metasulfo-toluic anhydride and the possibility of deriving new indicator dyes from it.



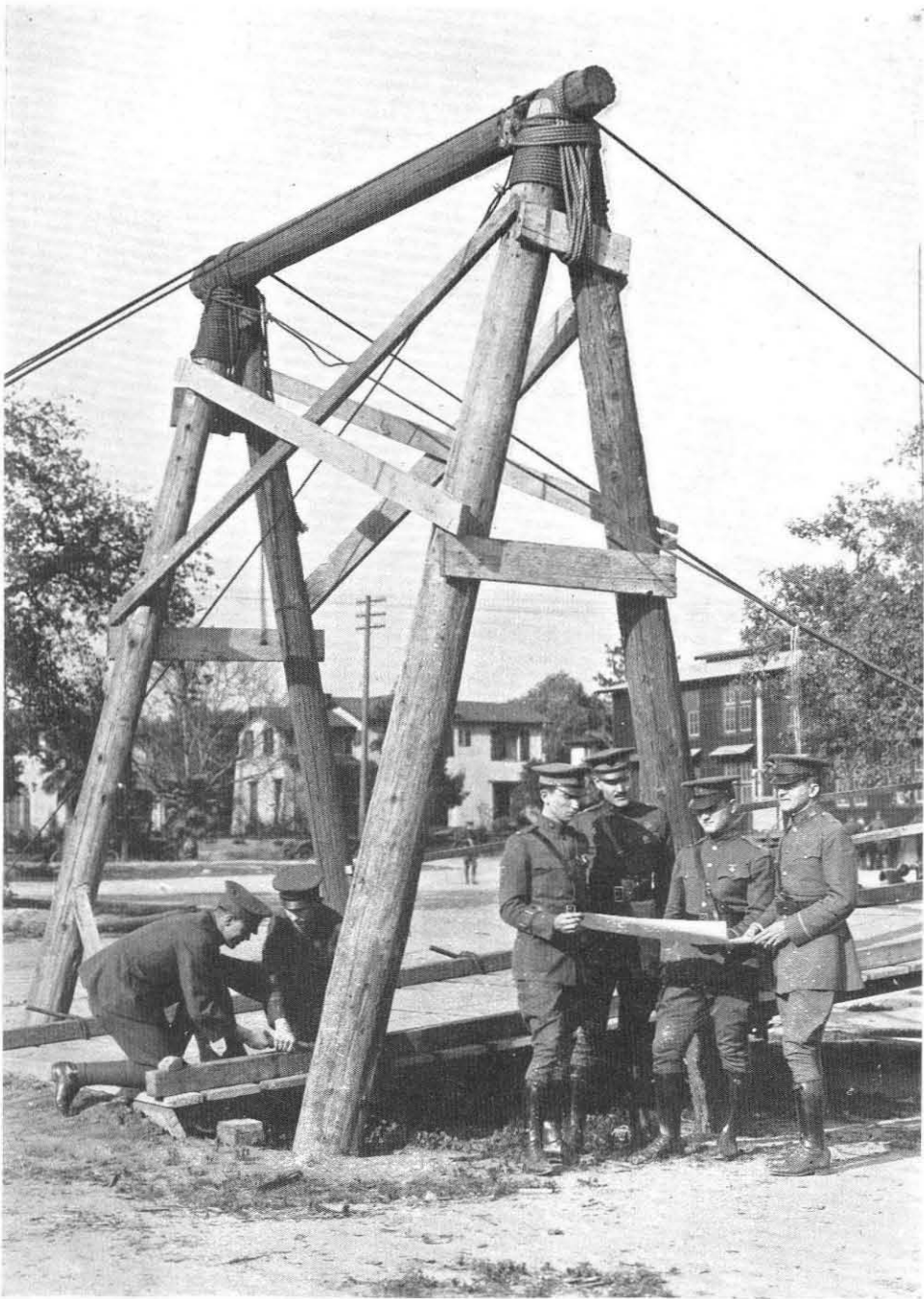
THE MILITARY DEPARTMENT

WHEN the college year opened the military battalion greeted a new Commandant. Captain Kramer was sent to Panama and Major Lewis M. Adams took over his work here. Major Adams saw service in France, and came here from Galveston, Texas, where he had been District Engineer for four years.

The recent war experience of the officers attached here leads realism and interest to the class room exercises, and especially to the construction of the trenches dug in the rear of the barracks. These trenches were revetted and sand bagged, wire was placed in front, and two machine gun pits connected by covered passages were built so that a very war-like appearance was presented. In addition to the class work, it has been the custom for the battalion to spend a certain number of drill periods on some engineering project. This year a suspension bridge was built, using the regular pontoon equipment. The bridge is 90 feet long and 10 feet wide and has easily supported the weight of a fully loaded automobile driven across it.

In addition to the regular three companies of the battalion, an Automatic Weapon Platoon proved a success last year, and the idea was taken up again at the beginning of the second term when a platoon of two squads was organized. These squads become thoroughly familiar with the operation of the automatic rifle and machine gun, and with the machine gun drill and the work has proved very interesting to those taking it.

Another phase of the military course which is always of interest to those taking it, is the course in demolitions. Last year the battalion got a taste of real demolition work when they blew up the Linda Vista Bridge for the City of Pasadena. However, as there are no more bridges near here that need blowing up, the commandant was forced to look for something else to put realism into the demolition classes this year.



GRADUATE SCHOOL

WHEN the authorities of the California Institute of Technology secured Dr. A. A. Noyes as director of the Gates Chemical Laboratory and Dr. R. A. Millikan as director of the newly finished Norman Bridge Laboratory of Physics, they not only greatly increased the prestige of the regular undergraduate school, but at the same time made certain that the graduate school of the Institute would prosper and take its place among the leading centers of research in this country.

Since that time the faculty of the Institute has been steadily increasing in numbers and rank of its men, until now California Tech is truly one of the greatest scientific colleges in America. Not only has there been a great increase in the number of men connected with the teaching staff, but more important still has been the steady increase in the size of the research staff. The research men come not only from all parts of the United States, but they are literally coming from the four corners of the globe. In reading over the roster of the physicists and chemists, occupied with research work at the Institute we find several men from Russia, a man from Poland, one from India, another from England, representatives from Norway, Holland and many other countries at various parts of the world.

Dr. Sophus Epstein has come to the Institute from Holland, to proceed with his work concerning the quantum theory, on which he is a very eminent authority. Dr. Stanislaw Loria comes to the college from Poland and is doing extensive research work in the investigation of the electronic structure of matter. Norway's contribution to the California Tech research staff is Dr. Vilhelm Bjerknes, one of the world's greatest geophysicists, and formerly professor of geophysics at the Geophysical Institute at Bergen, Norway. Perhaps the most celebrated of eastern physicists is Chandrasekhara Venkata Raman of the University of Calcutta, who has been doing research work at the Institute this past year.

In chemistry the roster shows an equally brilliant list of men. Dr. Richard Chace Tolman, professor of Physical Chemistry and Mathematical Physics, is noted all over the United States for his original scientific work. The man that knows more about insulin than perhaps any other man in the country is Dr. John J. Abel, professor of Pharmacology at the Johns Hopkins University and out here on a year's leave of absence to work on Insulin.

Such is the personnel of the graduate school and it is easily seen why Tech is becoming nationally known as one of the best scientific colleges in the United States.



FACULTY

and

ADMINISTRATION

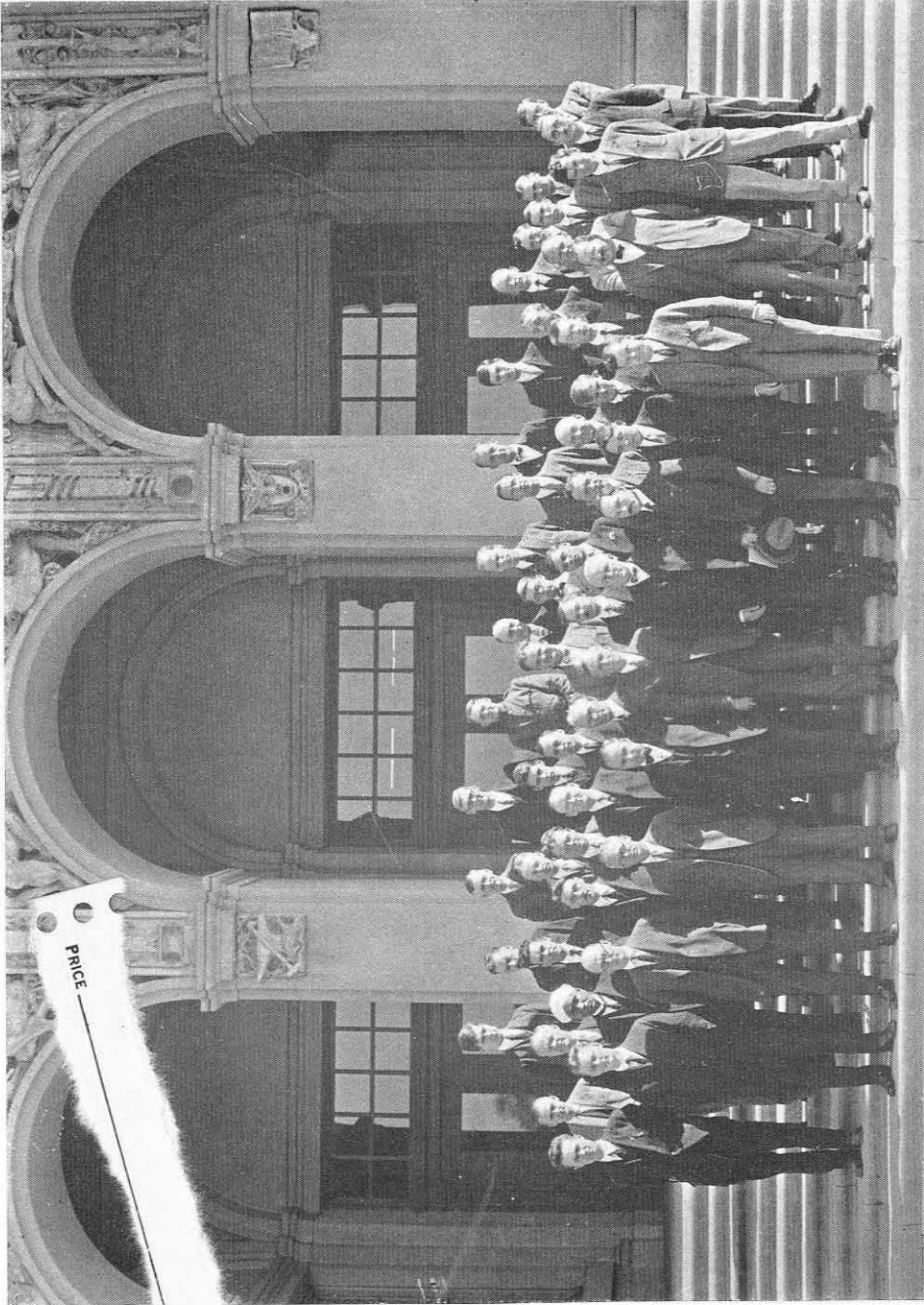
1908



HINRICHS
VAN BUSKIRK

MILLIKAN

MACARTHUR
BARRETT



PRICE _____

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A HISTORICAL SKETCH

by

THEODORE C. COMBS

To develop men with an exceptional engineering knowledge, an unequalled scientific training and a broad cultural background—these are the ideals of the California Institute of Technology; it is a policy little dreamed of by the founders of Throop College of years gone by, but one which is being realized in a most gratifying way.

The present college has grown from the old Throop University founded thirty-four years ago by Amos G. Throop. In 1891, this Chicago business man with an ambition to contribute his share toward the education of young men and women, began an educational movement which was destined to become one of the world's foremost.

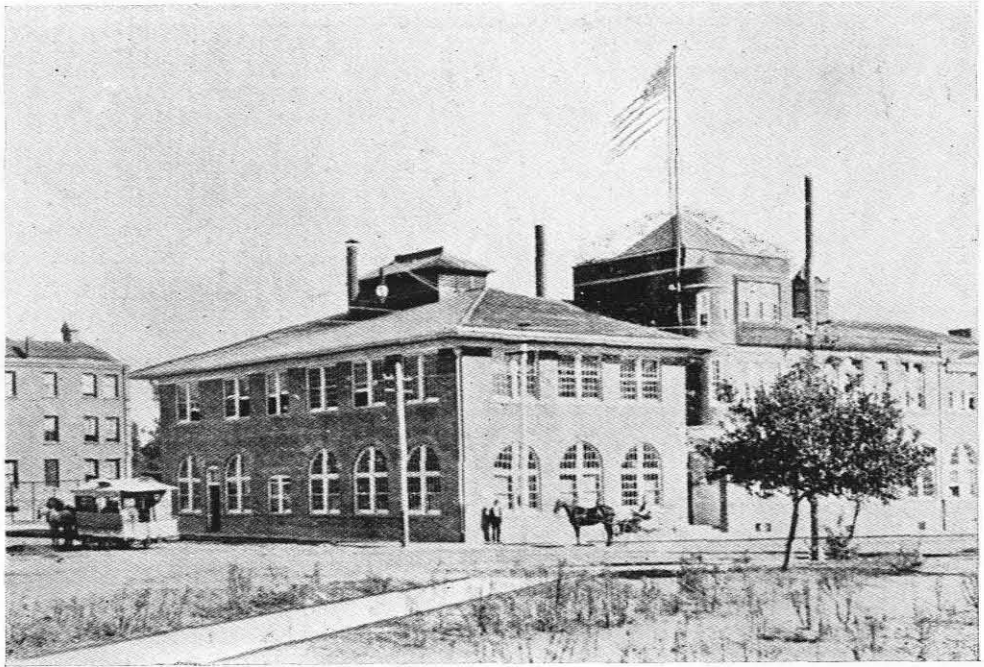
Throop University became Throop Polytechnic Institute one year later with the addition of a kindergarten and elementary grades. Charles A. Keyes became president and the Institute attained its largest enrollment of 620. The buildings may be seen at the present time near Chestnut and Fair Oaks Avenues in Pasadena.

In 1908 the far-visionsed Board of Trustees devised a plan for the development of a scientific institution which should supply a much needed place in the field of education. The present campus had been donated and the new institution, the Throop College of Technology, a non-co-educational institution came into existence. The elementary grades were discontinued and the enrollment dropped to 31 by the application of new standards.

Determined to make it second to none, the officials and especially Dr. George E. Hale and Arthur H. Fleming, two very broad-visionsed men, began the development of this minute college. Dr. Hale expressed his ideals of the institution as follows: "In creating such a school we must provide the best of instruction and the most perfect equipment that modern engineering offers. However, in laying stress upon the practical aspects of the problem we must not forget that the greatest engineer is not the man who is trained merely to understand machines and to apply formulas, but the man who, while knowing these things has not failed to develop his breadth of view and the highest qualities of his imagination. No great creative achievement in art, in literature or in science has ever been the work of a man devoid of the imaginative faculty."

During the war period the entire college was devoted to the aid of the nation—it became a training school of war work and all its men went into the active service.

In 1920 a new step was taken and the Throop College of Technology was named the California Institute of Technology. The new step was in reorganizing the college and expanding it into a great research institution—a realization of the ideals of the Institute's founders.



OLD THROOP ACADEMY

The Gates Chemical Laboratory was built by C. W. Gates and his brother P. G. Gates to supply the needs of that department, while Dr. Norman Bridge providing the first wing of the Norman Bridge Laboratory of Physics. These two buildings, with Throop Hall then comprised the entire college.

It was at this time that the Institute was very fortunate in securing the services of Dr. Arthur A. Noyes, one of America's leading chemists, as director of the Gates Laboratory of Chemistry and at the same time Dr. Robert A. Millikan of Chicago University, who had been spending part time here, moved permanently to Pasadena to become the executive head of the Norman Bridge Laboratory.

The gaining of these two men, who came because they believed that here was a place which should become a research center because of wonderful climatic conditions, the proximity of the Mount Wilson Observatory and the interest shown by the Carnegie Corporation and the executives of the college, was a great boon for the Institute.

Many gifts and endowments have made possible the extensive building plan which is now being carried on. The gifts include the Library and the second unit of the Norman Bridge Laboratory presented by Dr. Norman Bridge; the Aeronautics Laboratory presented by Mr. Tod Ford; the High Tension Electrical Laboratory erected and equipped by the Southern California Edison Company; a wing of the Auditorium which was erected in 1922; the Student Union Hall presented by Mr. and Mrs. R. R. Blacker.

Other buildings planned by the late Bertram Goodhue, one of America's greatest architects, will be built as rapidly as possible. A steam heating plant is now being completed. All of the buildings are of Spanish design and are built not only for the purpose of being the best adapted to modern usage but to be beautiful edifices as well.

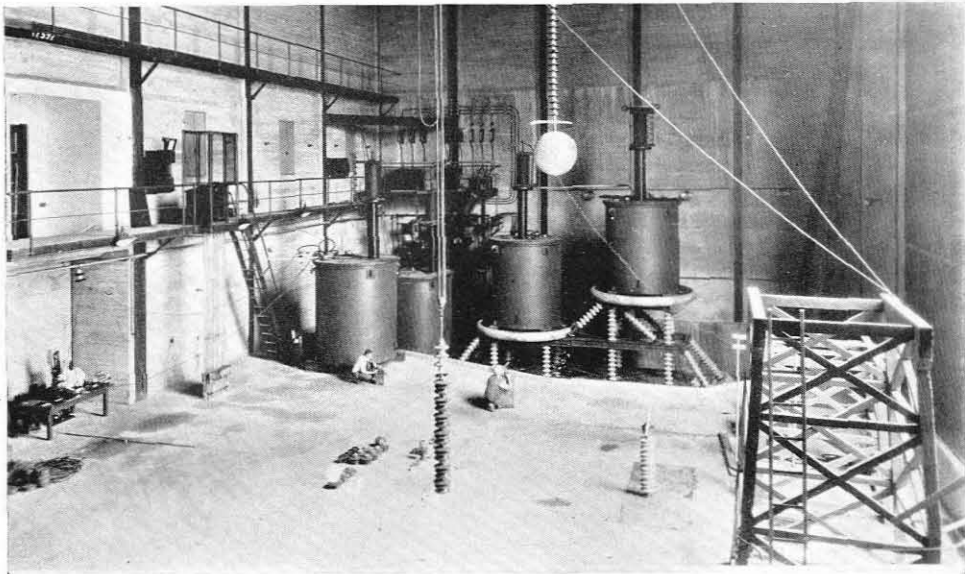
There are numerous advantages in the Institute's limitation of its enrollment to 500. The classes, being small, have given opportunity for personal contact of the faculty and students and a stressing of cultural values which few colleges possess. This contact serves also to develop a creative attitude in the students, since the faculty is composed chiefly of men engaged in active research. All these conditions have given the institution a unique opportunity to make an important contribution to American education as well as to American scientific development.

Many of the greatest scientists from all parts of the world have at one time or another been engaged in work at the Institute on problems of the utmost importance. The faculty has been increased with the addition of many very able men who have won the highest honors afforded to scientific men through their contributions to human knowledge.

Dr. Millikan in 1923, not only won the Nobel prize in physics, but the Edison Medal of the American Institute of Electrical Engineers and the Hughes Medal of the Royal Society of Great Britain.

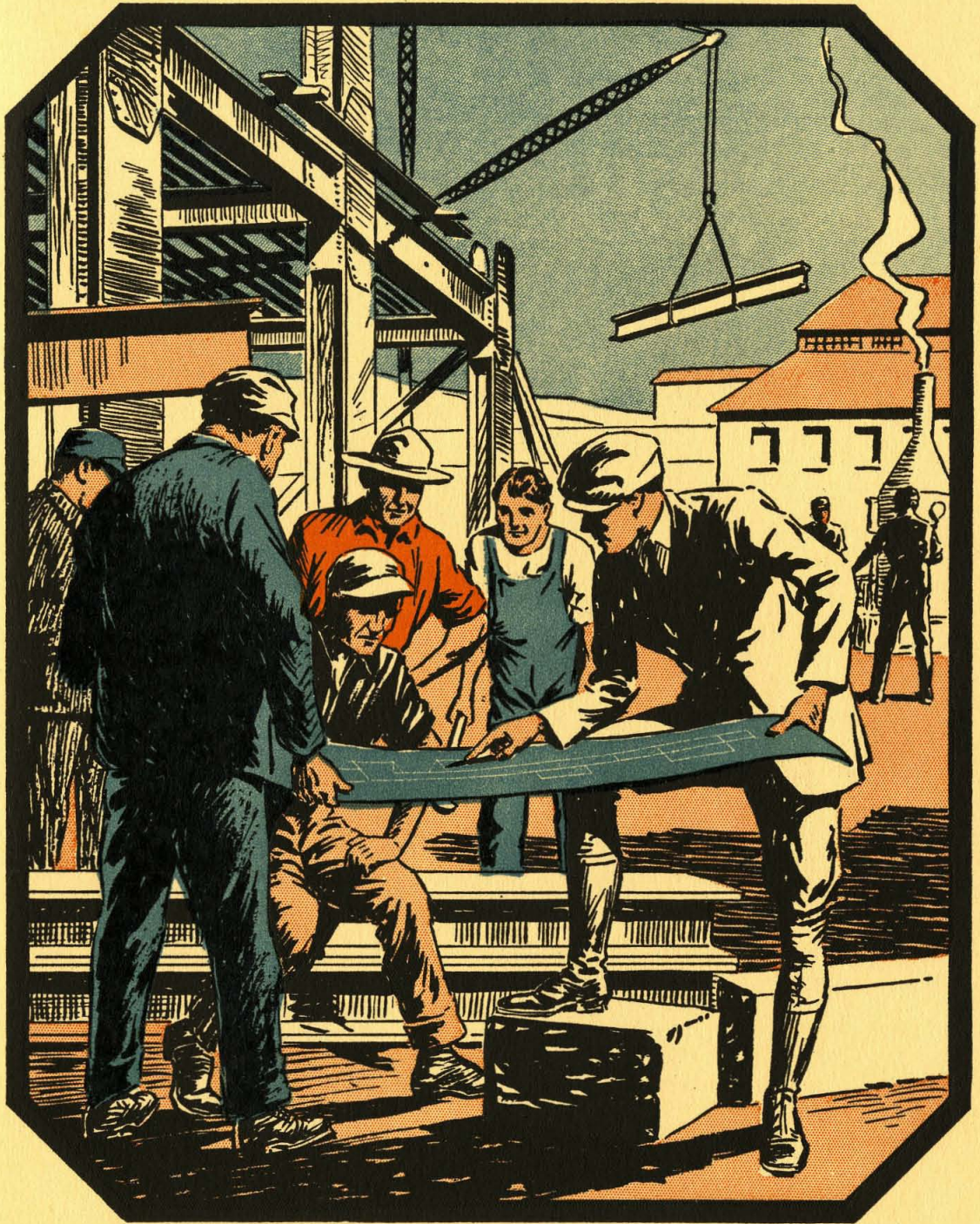
Thus it is seen that the college has grown to a position of predominance in a very few years. Several hundred applicants are turned away each year and recently the policy of entrance examinations has been introduced to aid in the selection of the new men.

But the history of the California Institute of Technology has just begun and the future should be even brighter than the past.



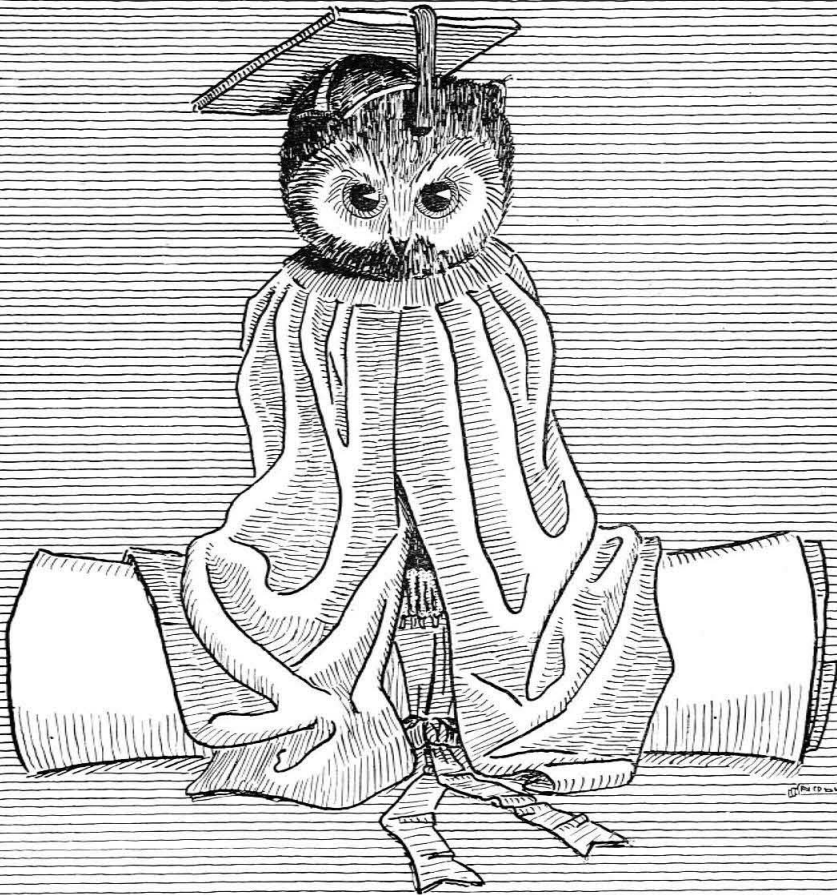
INTERIOR OF NEW HIGH TENSION LABORATORY

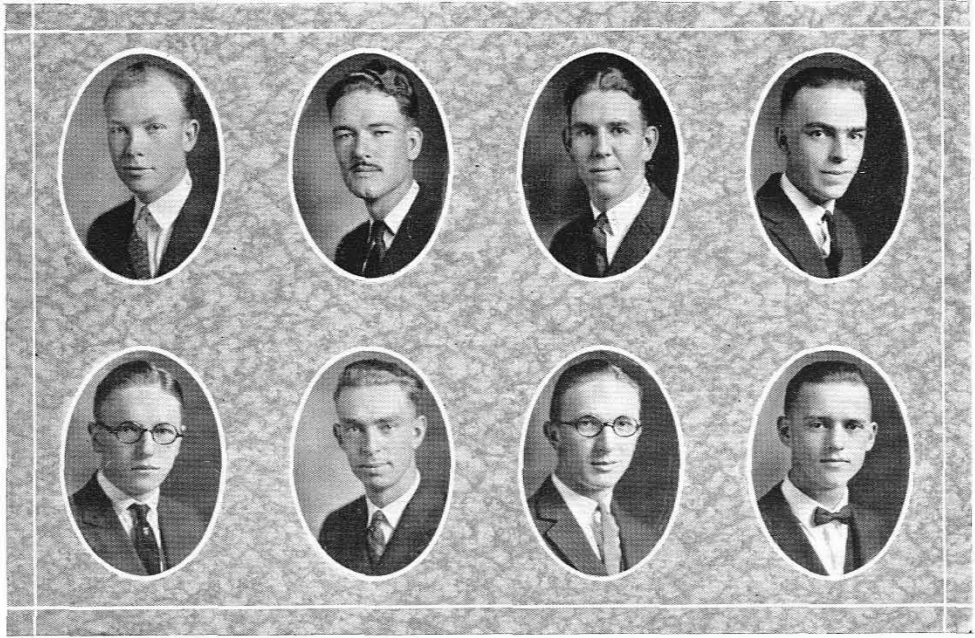




CLASSES

GRADUATES





NOLL
FULWIDER

NEWTON
SALSBURY

LARABEE
FERKEL

CORNELISON
BEED

CLASS OF '25

President ALFRED A. NEWTON
 Vice President OSCAR S. LARABEE
 Secretary PAUL NOLL
 Treasurer EDWARD CORNELISON
 Athletic Manager CARL BEED

BOARD OF CONTROL

ROBERT FULWIDER—MARKHAM E. SALSBURY—ALBERT FERKEL

SOCIAL COMMITTEE

LAWRENCE P. HENDERSON Chairman
 ROBIE WATKINS, JAMES E. MOORE, KEITH WILSON, TRACY AHERTON

COMMENCEMENT ANNOUNCEMENTS

PAUL E. NOLL Chairman
 GLEN SCHLEGEL

SENIOR CLASS HISTORY

UNLIKE most classes in the history of the college the class of '25 has never been downtrodden. Entering as green freshmen they immediately distinguished themselves by winning the Pole Rush, due to the heroism of Anias Sasso and the leadership of Preston Collins, newly appointed Freshman Chairman. As a result they were the guests of honor at a dance given at the Hotel Ambassador by the Sophomore Class.

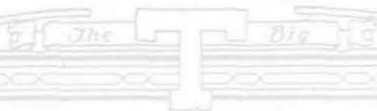
However the class was not "lulled to sleep" by conceit due to their early successes and continued to lead and strive toward higher goals. The Frosh football team suffered the usual number of defeats but managed to develop such varsity material as Mike Brunner, Stu Seymour and Ray Alderman, who have each played four years of college football. The Frosh debating team enjoyed unusual success as did also track and baseball. The officers for the class during the last two terms were: Preston Collins, President; Gerald McFarlan, Vice President; Anias Sasso, Secretary; Henry Freeman, Board of Control; Fred Peterson, Yell Leader.

The most notable characteristic of the class '25 during its Sophomore year was its strenuous oppression of the Freshman class. In fact this class performed its duty as Sophomores so well that the faculty found it necessary to interfere in behalf of the pea-greeners, and all Sophomores have been relatively calm ever since. The class won the pole-rush for the second successive time, a feat which has been seldom done. Its next triumph was in the form of a Freshman class picture, which turned out to be a "splashing success."

The class produced much varsity material for football, basketball, track and baseball, and won the inter-class football championship, and the inter-class track meet, due to the noble efforts of Keech and Hoffman. The dance, given at the Annandale Country Club proved to be one of most delightful affairs of the College year. The officers for the year were: Fred Peterson, President; Edward Kinsey, Vice President; Marcus Hoffman, Secretary; M. E. Salsbury and Gerald McFarlan, Board of Control.

When a class enters upon its third year in college its members become leaders in student body affairs rather than in purely class functions and the class as a unit is less active. Five members of the class of '25 won their Honor Keys, the highest student body honor, during their Junior Year. The class also formed the nucleus for almost every athletic team, and led in forensics as well. Officers for the year of '23-'24 were Mike Brunner, President; Robie T. Watkins, Vice President; Robert Fulwider, Secretary; and Stirling Beed, Athletic Manager; with Albert J. Ferkel, M. E. Salsbury and Alfred Newton on the Board of Control. The class did its ample share in sponsoring the Junior-Senior Prom, held at the Maryland Hotel.

Entering the Senior year with such a record, what more needs to be said? As Seniors the class of twenty five concerned itself with the advancement of the interest of the College, rather than with petty class matters. Mike Brunner, as President of the Student Body enjoyed a successful term of office to his own satisfaction as well as to that of the class. Officers for the Senior year were: Alfred A. Newton, President; Oscar S. Larabee, Vice President; Paul



Noll, Secretary; Edward Cornelison, Treasurer; Carl Beed, Athletic Manager; with M. E. Salsbury, Al Ferkel and Robert Fulwider, on the Board of Control.

This closes the career of the Class of '25. May the members accomplish as much individually as they have as a unit.

HONOR KEY WINNERS

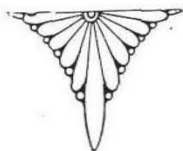
Michael C. Brunner	John E. Maurer
Robert T. Dillon	Alfred A. Newton
Robert W. Fulwider	Paul E. Noll
Wesley C. Hertestein	Markham E. Salsbury
James Caryl Krouser	Edwin F. Thayer
Oscar S. Larabee	Joseph H. Walker, Jr.

WEARERS OF THE "T"

Raymond E. Alderman	Franz A. Larson
Carl F. Beed	John E. Maurer
Michael C. Brunner	Leroy Newcomb
Frank M. Foster	Kenneth W. Ranney
Robert W. Fulwider	Douglas W. Sellars
Lawrence P. Henderson	Edgar E. Shafer, Jr.
Byron A. Hill	Harold C. Sheffield
Oscar S. Larabee	Wilfred G. Thompson

TRAVEL PRIZE WINNERS

Carl H. Heilbron, Jr.	Robert H. Dalton
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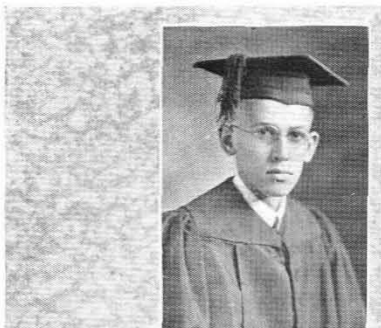


"BON VOYAGE"

*A hundred ships are built and sent away,
The several winds blow each a diff'rent way,
On—on—by fixed necessity.
Some reach their ports of call in distant climes
Through tossed about like foam on angry waves,
A few regain their harbor home at times,
While others flounder down to wat'ry graves.*

*You Seniors, like the ships that sail the sea,
Each one to face the main with all its storms
And meet its squalls in all their furious forms,
For each the Future dawns with rosy hue
And finds you eager for the strange and new;
Each goes to his peculiar destiny.*

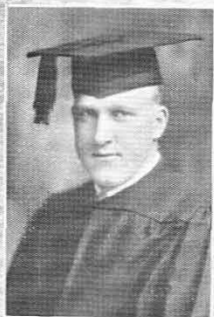
H. FRED PETERSON.



HORACE CHAMBERLIN ADAMS—
"Horsey".

Glendora, Calif.; Born Dec. 23, 1903; Prepared at Citrus Union High School, Azusa; Entered 1921; Chemical Engineering; Band (1, 2, 3); Orchestra (1); Tennis (1, 2, 3), Letterman (4); Chem Club (2, 3, 4).

"He makes some mean drives."

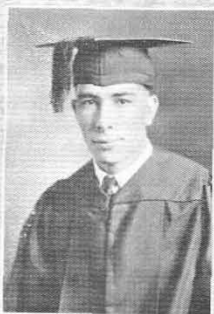


RAYMOND ELLIS ALDERMAN—"Horsey".

Sigma Alpha Pi.

Santa Ana, Calif.; Born Aug. 9, 1903; Prepared at Santa Ana High School; Entered 1921; Civil Engineering; Baseball (1); Football (1), Letterman (2, 3, 4), Capt. (4); Track (1, 2, 3), Letterman (4); A. S. C. E. (3, 4).

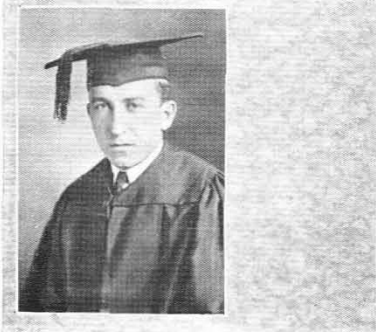
"Married?"



WILLIAM HEAD ALLEN—"Bill".

Altadena, Calif.; Born May 22, 1901; Prepared at Pasadena High School; Entered 1921; Chemical Engineering; Track (1); Chem Club (2, 3, 4).

"He makes ice cream for the chemists—and helps eat it, too."



TRACY LEON ATHERTON—"Athy".

Pi Alpha Tau, Press Club.

Los Angeles, Calif.; Born June 9, 1903; Prepared at Polytechnic High School, Los Angeles; Entered 1920; Civil Engineering; Aero Club (1); Annual Staff (2, 3, 4); A. S. C. E. (1, 2, 3, 4); Football (3); Swimming (2, 3, 4), Manager (4); Tech Staff (1), Managing Editor (2), Associate Editor (3, 4).

"Fore!"

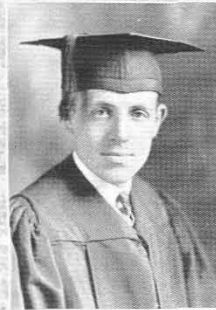
EMERSON DUDLEY BAILEY—"Emmy".

Hollywood, Calif.; Born Dec. 31, 1902; Prepared at Hollywood High School; Entered 1921; Physics and Engineering; Glee Club (2); Football (4).
"I don't believe it."



SYDNEY ALLEN BANKS—"Student Banks".

Tau Beta Pi.
Los Angeles, Calif.; Born Dec. 6, 1900; Prepared at Queen Anne High School, Seattle, Wash., and U. S. C.; Entered 1920; Chemical Engineering; Chem Club (2, 3, 4); Basketball (3), Letterman (4), Capt. (4).
"We wonder where he hangs out."



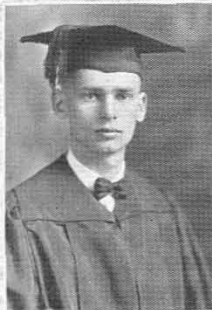
CARL FREDERICK BEED—"Carl".

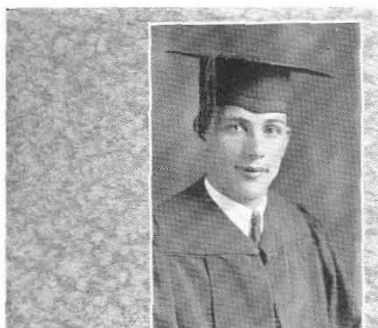
Pharos, Tau Beta Pi.
Encanto, San Diego, Calif.; Born Aug. 21, 1904; Prepared at San Diego High School and Univ. of Ore.; Entered 1922; Civil Engineering; Football (2, 3); Baseball Letterman (3, 4); A. S. C. E. (3, 4).
"Diminutive—but oh my! it's no handicap."



STERLING WESTMAN BEED—"Ster".

Pharos.
Encanto, San Diego, Calif.; Born Oct. 30, 1902; Prepared at San Diego High School and Univ. of Ore.; Entered 1922; Mechanical Engineering; Football (2, 3); Baseball (3); A. S. M. E. (3, 4).
"Big brother."





ALLYN WILLIS BLUNT—"Blunt".

Eagle Rock, Calif.; Born Dec. 11, 1903; Prepared at Hollywood High School and Glendale High School; Entered 1921; Electrical Engineering; Baseball (2, 3), Letterman (4); A. I. E. E. (3, 4); Y. M. C. A. (3, 4).
"When West goes East"



NORRIS FRANKLIN BRAVENDER—

"Norrie."
Pharos.

Los Angeles, Calif.; Born April 13, 1901; Prepared at Hollywood High School; Entered 1919; Engineering and Economics.



MICHAEL CHARLES BRUNNER—"Mike"

Sigma Alpha Pi, Pi Kappa Sigma, Tau Beta Pi.

Los Angeles, Calif.; Born Sept. 8, 1899; Prepared at Polytechnic High School, Los Angeles; Entered 1921; Civil Engineering; Basketball (1), Letterman (2, 3, 4), Capt. (3, 4); Football (1), Letterman (2, 3, 4); Class President (3); Tech Staff, Business Manager (3); A. S. C. E. (4); Board of Control (4); Student Body President (4); Honor Key (3, 4).
"Master of himself—and the A. S. B."



WALTER LOWELL BRYANT, JR.—

"Walt".

San Diego, Calif.; Born July 6, 1903; Prepared at San Diego High School and San Diego State College; Entered 1922; Electrical Engineering; Aero Club (2); Track (2, 4); Football (2, 3, 4); A. I. E. E. (3, 4); Chorus (3, 4); Economics Club (4); Glee Club (4); Tech Staff (4).
"A real worker—in many ways."

CLARENCE AMANDUS BURMISTER—

"Burmy".

Tau Beta Pi.

Pasadena, Calif.; Born April 7, 1896; Prepared at Prescott High School, Prescott, Ariz.; Entered 1921; Civil Engineering; A. S. C. E. (1, 2, 3, 4).

"So modest."



HUGH JOSEPH PATRICK BYRNE.

Los Angeles, Calif.; Born May 3, 1903; Prepared at Polytechnic High School, Riverside, and Riverside Junior College; Entered 1923; Mechanical Engineering.

"He stoops to conquer."



ALBERT CHAPMAN—"Chappy".

Gardena, Calif.; Born Jan. 30, 1904; Prepared at Gardena High School; Entered 1921; Mechanical Engineering; Baseball (1, 2, 3); A. S. M. E. (3, 4); Tech Staff (3, 4); Annual Staff (4); Y. M. C. A. (1, 3, 4).

"May he live long—and prosper."



FRANK CHARLES ASHTON CLAYTON

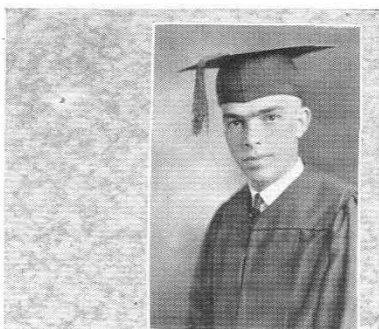
—"Clayt".

Tau Beta Pi.

Los Angeles, Calif.; Born July 17, 1903; Prepared at Manual Arts High School, Los Angeles; Entered 1921; Electrical Engineering; Football (2); A. I. E. E. (2, 3, 4); Election Committee (4); Exhibit Day Committee (4).

"Sure! that's easy."





EDWARD D. CORNELISON—"Ed".

Pi Alpha Tau, Pi Kappa Delta.

South Pasadena, Calif.; Born Aug. 29, 1902; Prepared at Reserve High School, Reserve, Kan., and Lincoln High School, Los Angeles; Entered 1920; Civil Engineering; A. S. C. E. (1, 2, 3, 4, 5); Debating (1, 3), Manager; (4); Y. M. C. A. (4); Class Treasurer (5).

"He knows what he wants."



ROBERT HENNAH DALTON—"Bob".

Tau Beta Pi.

Pasadena, Calif.; Born Oct. 21, 1902; Prepared at Hollywood High School; Entered 1922; Chemistry; Chem Club (3, 4), Junior Travel Prize (3).

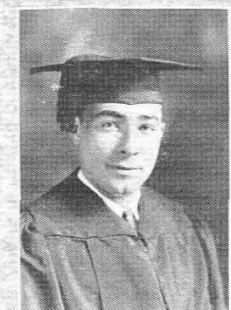
"The king's right-hand man."



WILLIAM ULM DENT—"Bill".

Hollywood, Calif.; Born Nov. 16, 1903; Prepared at Hollywood High School; Entered 1921; Physics and Engineering.

"Oh! where's Emmy?"



EDGAR MERTON DE REMER—"Ed."

Pi Alpha Tau.

San Fernando, Calif.; Born May 23, 1903; Prepared at San Fernando Union High School; Entered 1920; Mechanical Engineering; Basketball (1); A. S. M. E. (2, 3, 4, 5); Class Treasurer (3).

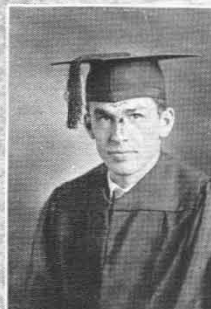
"He never can be found."

SAMUEL LATTA DIACK—"Sam".

Sigma Alpha Pi.

Ann Arbor, Mich.; Born July 23, 1903; Prepared at Eastern High School, Detroit, Mich.; Entered 1921; Chemical Engineering; Swimming (1); Tech Staff (1, 2); Football (2); Annual Staff (2, 3).

"I should worry."



ROBERT TROUTMAN DILLON—"Bob."

Gamma Sigma, Tau Beta Pi.

Oroville, Calif.; Born Feb. 2, 1904; Prepared at Pasadena High School; Entered 1921; Chemistry; Football (2, 4); Chem Club (2, 3, 4); Tech Staff (3, 4); Y. M. C. A. (3, 4); Student Body Vice-President (4); Chairman of Board of Control (4); Annual Staff (4); Honor Key (4).

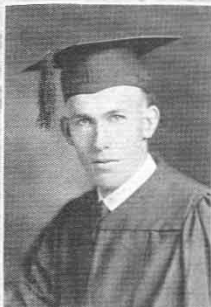
"Non-orexigenic-odor-organizer-in-chief of the organic lab."



ALFRED LOUIS ERICKSON—"Pap".

Burbank, Calif.; Born Aug. 26, 1903; Prepared at Burbank High School and Univ. of Calif. at Los Angeles; Entered 1922; Mechanical Engineering; A. S. M. E. (3, 4), Sec'y - Treasurer (4); Basketball (4).

"The altitude record."



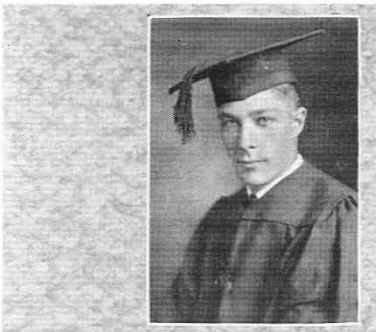
ALBERT JEFFERSON FERKEL—"Al".

Sigma Alpha Pi.

Los Angeles, Calif.; Born July 4, 1902; Prepared at Los Angeles High School; Entered 1921; Chemical Engineering; Track (1); Tech Staff (2, 3); Board of Control (3, 4); Court of Traditions, Junior Judge (3), Judge Chairman (4).

"Say, fellows—have you heard this one?"





HOLLAND MILLS FLICK—"Deacon".

Huntington Park, Calif.; Born July 27, 1901; Prepared at Huntington Park High School; Entered 1919; Electrical Engineering; A. I. E. E. (4); A. S. C. E. (4).
"Life is such a trouble."



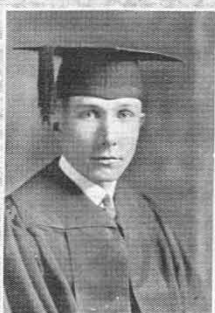
FRANK MURRAY FOSTER—"Stupe".

Sigma Alpha Pi.
Sierra Madre, Calif.; Born Dec. 2, 1902; Prepared at Pasadena High School; Entered 1921; Civil Engineering; Baseball (1, 3); Football, Letterman (2, 3, 4); A. S. C. E. (3, 4).
"That's alright—don't mind me."



ROBERT WILLIAM FULWIDER—"Bob".

Gamma Sigma, Pi Kappa Delta, Pi Kappa Sigma, Press Club.
Pasadena, Calif.; Born July 14, 1903; Prepared at Pomona High School; Entered 1920; General; Debating (1, 2, 3, 4); Swimming (1, 2); Football (2, 3); A. S. C. E. (2, 3, 4); Class Sec'y-Treasurer (3); Annual Staff (4); Board of Control (4); Tech Staff (4); Representative at Large (4); Honor Key (4).
"He knows all of the scandal."



RAYMOND JOHN HANSEN—"Ray".

Los Angeles, Calif.; Born May 1, 1903; Prepared at University High School (Univ. of Minn.); Entered 1922; Electrical Engineering; A. I. E. E. (4); Baseball (4).
"So serene."

EDWARD WHIPPLE HART—"Eddie".

Tau Beta Pi.

Los Angeles, Calif.; Born Dec. 22, 1904; Prepared at Los Angeles High School; Entered 1922; Chemical Engineering; Band (1, 2, 3, 4); Orchestra (3); Chem Club (3, 4).

"Oh! do you know her too?"



CARL HENRY HEILBRON, JR—"Carl".

Gnome Club, Tau Beta Pi.

San Diego, Calif.; Born Nov. 1, 1904; Prepared at San Diego High School; Entered 1921; Civil Engineering; Sophomore Travel Prize (2); A. S. C. E. (3, 4); Football (3, 4); Tech Staff (3, 4); Annual Staff (4); Athletic Manager (4).

"I never can find anything to do."

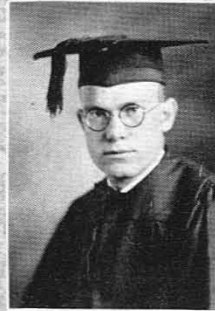


JACK HAROLD HELMS—"Jack".

Pi Kappa Delta.

Glendale, Calif.; Born July 12, 1902; Prepared at University High School (Univ. of Southern Calif.); Entered 1921; Engineering and Economics; Baseball (1); Debating (1, 4); Football (1, 3, 4); Rifle Team (2, 3); Basketball (2); Annual Staff (3).

"I never could understand that."



LAWRENCE PELTON HENDERSON—

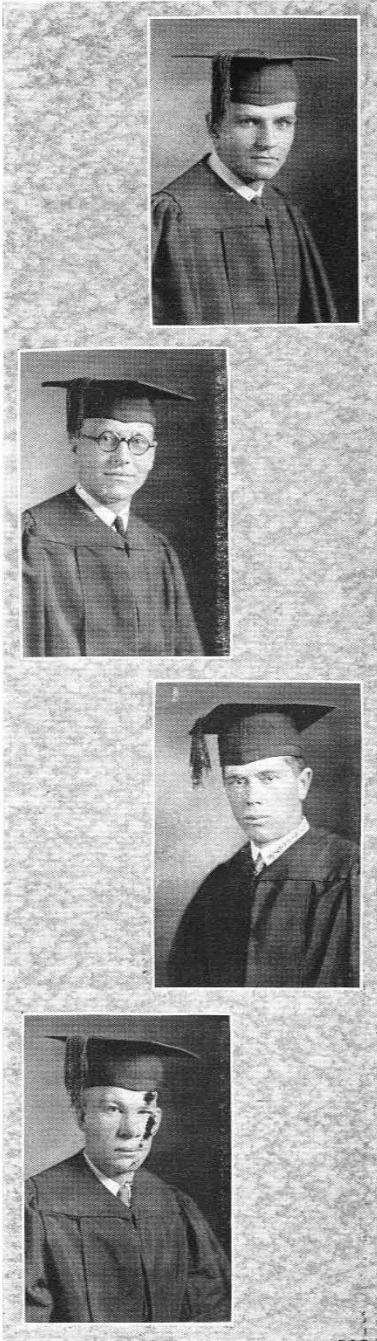
"Hendy".

Gnome Club.

Pasadena, Calif.; Born May 30, 1902; Prepared at Heights High School, Cleveland, Ohio; Entered 1921; Mechanical Engineering; Track (1, 2), Letterman (3, 4), Capt. (4); Football (2, 3, 4); A. S. M. E. (3, 4).

"He can make them step—in more ways than one."





WESLEY CHARLES HERTENSTEIN—

"Herky".

Gamma Sigma.

Pasadena, Calif.; Born Dec. 11, 1901; Prepared at Citrus Union High School, Azusa, Calif.; Entered 1920; Civil Engineering; Band (1, 2); A. S. C. E. (1, 2, 3, 4), President (4); Annual Staff (4); Student Body Secretary (4); Tech Staff (4); Honor Key (4).

"He runs the Civils."

BEN EWART HESS—"Bin".

Pharos, Tau Beta Pi.

Huntington Park, Calif.; Born Oct. 31, 1902; Prepared at Huntington Park High School; Entered 1921; Chemical Engineering; Aero Club (1, 2); Band (2, 3); Chem Club (2, 3, 4); Football (4).

"So timid."

BYRON ARTHUR HILL—"Mojave".

Tau Beta Pi.

Barstow, Calif.; Born Nov. 5, 1898; Prepared at Barstow High School; Entered 1920; Civil Engineering; Football (1, 2, 3, 4); Track (1, 2, 3), Letterman (4); A. S. C. E. (2, 3, 4).

"As big as the west."

THOMAS MYRON HOTCHKISS—

"Brick".

Monrovia, Calif.; Born May 26, 1902; Prepared at Monrovia High School; Entered 1921; Electrical Engineering; A. I. E. E. (2, 3, 4).

"He boosts his home town."

DAVID THOMAS JONES—"Dave, D. T."

Hollywood, Calif.; Born May 2, 1904; Prepared at Hollywood High School; Entered 1921; Electrical Engineering; A. I. E. E. (2, 3, 4).

"Maxstadt's understudy."



HERBERT JAMES JONES—"Bert".

Coronado, Calif.; Born June 24, 1904; Prepared at Coronado High School and San Diego State College; Entered 1923; Mechanical Engineering; A. S. M. E. (3, 4); Glee Club (4).

"I like Southern Branch, too."



WALTER BOND JONES—"W. B."

Santa Barbara, Calif.; Born Aug. 7, 1902; Prepared at "The Hicks School", Santa Barbara; Entered 1921; Mechanical Engineering; A. I. E. E. (2, 3, 4); Football (2, 3).

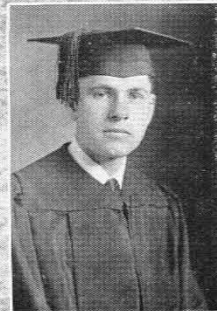
"Ever smiling."

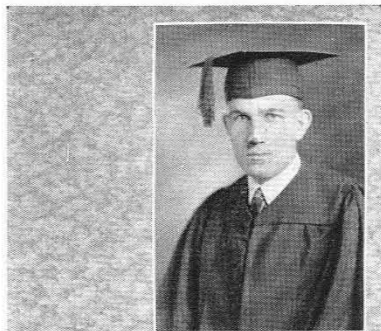


MICHAEL BORIS KARELITZ—"Mike."

Russia; Born Dec. 29, 1901; Prepared at Real Gymnasium, Warsaw and Nikolsk-Ussurisk, Russia and Tomsk Institute of Technology, Russia; Entered 1923; Physics and Engineering; A. I. E. E. (3, 4); Radio Club (3); Economics Club (4).

"A friend indeed."



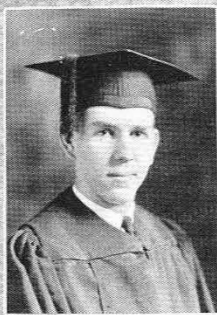


JAMES CARYL KROUSER—"Cary".

Pi Alpha Tau, Press Club.

Oxnard, Calif.; Born Dec. 29, 1903; Prepared at Oxnard Union High School; Entered 1921; Electrical Engineering; Tech Staff (2), Managing Editor (3), Editor (4); Annual Staff (3), Associate Editor (4); Cross-Country Team (2, 3, 4); Track (2, 3, 4); Rifle Team (3); A. I. E. E. (3, 4); Honor Key (4).

"If you get tired walking—try running a while."



OSCAR SEYMOUR LARABEE, JR. —

"Larry".

Pi Alpha Tau

Los Angeles, Calif.; Born Feb. 23, 1904; Prepared at Los Angeles High School; Entered 1921; Electrical Engineering; Football (2), Letterman (4); Basketball (1, 3); Baseball (1), Letterman (2, 3, 4); Track (1, 2); Glee Club (3, 4); Class Vice-President (4); Tech Staff (4); Chorus (4); Honor Key (4).

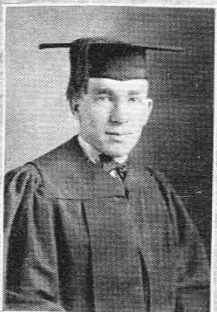
"Now that wasn't nice."



FRANS AUGUST LARSON—"Augie".

Pasadena, Calif.; Born Oct. 6, 1903; Prepared at Pasadena High School; Entered 1921; Electrical Engineering; A. I. E. E. (4); Football (2, 3); Track (3), Letterman (4); Swimming (2).

"Up among the stars so high."



JOHN EDWARD MAURER—"Jack".

Sigma Alpha Pi, Tau Beta Pi, Press Club, Pi Kappa Delta.

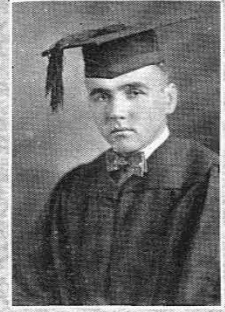
Hollywood, Calif.; Born Feb. 26, 1904; Prepared at Hollywood High School; Entered 1921; Engineering and Economics; Basketball (1, 2, 3), Letterman (4); Tech Staff (1, 2, 3); Annual Staff (1, 2, 3, 4), Business Manager (3); Debating (1, 2); Football Manager (3); Honor Point Committee (3), Chairman (4); Economics Club President (4); Honor Key (3).

"Tell that one again."

CHARLES GILBERT McPROUD—"Mac."

Long Beach, Calif.; Born Oct. 21, 1904; Prepared at Long Beach High School; Entered 1921; Mechanical Engineering; A. I. E. E. (2); A. S. M. E. (3, 4); Tech Staff (4).

"Knowledge is power."

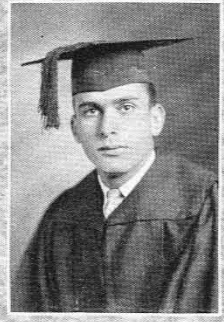


LEO MARCO MILLER—"Leo".

Pi Alpha Tau.

Los Angeles, Calif.; Born March 15, 1903; Prepared at Hollywood High School; Entered 1921; Civil Engineering; A. S. C. E. (1, 2, 3, 4).

"That's just what I meant."

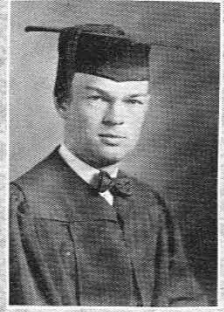


JAMES EDWARD MOORE—"Jimmie".

Pharos, Pi Kappa Sigma, Tau Beta Pi.

El Cajon, Calif.; Born June 12, 1902; Prepared at Grossmont Union High School, El Cajon; Entered 1921; Engineering and Economics; Chorus (3), President (4); A. S. M. E. (3); Annual Staff (4).

"My, how nice."

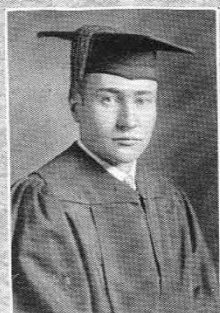


FRED MASATO MORIKAWA—"Fred".

Saijo, Kamo, Hiroshima, Japan; Born Feb. 11, 1898; Prepared at Hiroshima Middle School, Japan, and Chaffee Union High School, Ontario, Calif.; Entered 1920; Electrical Engineering; A. I. E. E. (3, 4).

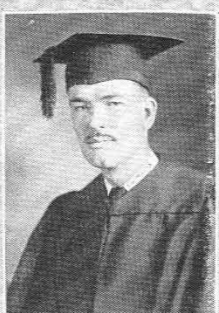
"A smiling Oriental."





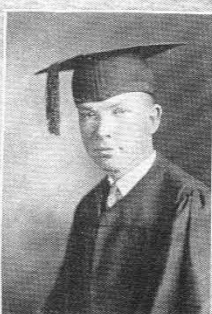
LEROY NEWCOMB—"Newky".

Sigma Alpha Pi.
San Bernardino, Calif.; Born Dec. 17, 1902; Prepared at San Bernardino High School; Entered 1921; Mechanical Engineering; Football (1), Letterman (3, 4); Track (2), Letterman (3, 4); Tech Staff (3).
"I'm conscientiously opposed to studying."



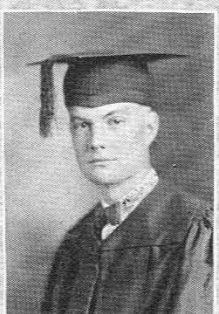
ALFRED ARTHUR NEWTON—"Al".

Gnome Club, Pi Kappa Delta, Pi Kappa Sigma, Press Club.
Venice, Calif.; Born Nov. 5, 1899; Prepared at Venice High School; Entered 1920; Engineering and Economics; Debating (1, 2, 3); Tech Staff (1, 2), Editor (3), Associate Editor (4); Annual Staff (2), Associate Editor (3, 4); Board of Control (2, 3); Class President (4); Rifle Team (4); Honor Key (2, 3, 4).
"A man to be picked from ten thousand."



PAUL EDWARD NOLL—"Peter".

Pi Alpha Tau, Tau Beta Pi, Press Club, Pi Kappa Sigma.
Pasadena, Calif.; Born Dec. 5, 1903; Prepared at Pasadena High School; Entered 1921; Mechanical Engineering; Glee Club (1, 2, 3, 4); Orchestra (2, 3, 4); Annual Staff (3, 4); Tech Staff (3, 4); Class Secretary (4); Chorus (4); A. S. M. E., Vice-President (4); Honor Key (4).
"Worth many pots o' gold."



RICHARD WALTER PALMER—"Dick".

Pasadena, Calif.; Born Oct. 20, 1903; Prepared at Pasadena High School; Entered 1921; Physics and Engineering; Aero Club (1, 2, 3, 4); Atomizer Staff (2); Annual Staff (3).
"A little thing like that shouldn't trouble one."

ROLLAND ROBERT PEARSON—"Rollie".

Los Angeles, Calif.; Born June 10, 1899; Prepared at Lincoln High School, Los Angeles; Entered 1918; Electrical Engineering; A. I. E. E. (3, 4); Basketball (2, 4), Letterman (2).

"Another man gone wrong?"



LELAND BUSBY PRENTICE—"Lee".

Pi Alpha Tau.

Los Angeles, Calif.; Born Dec. 21, 1902; Prepared at Manual Arts High School, Los Angeles, Entered midyear 1920; Chemical Engineering; Basketball (3); Chem Club Vice-President (4).

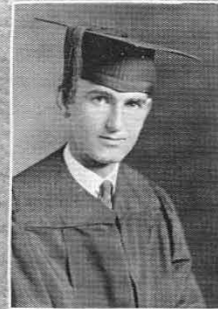
"They ought to offer a course in bridge."



KENNETH WYCKOFF RANNEY.

Santa Ana, Calif.; Born July 25, 1901; Prepared at Santa Ana High School and Junior College; Entered 1920; Chemical Engineering; Chem Club (1, 2, 3, 4); Tennis (1, 2), Letterman (3, 4).

"They (the women, we think) don't bother me."

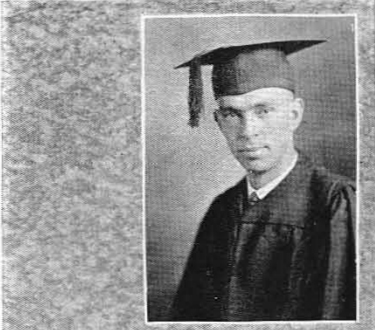


PAUL CLIFTON RIVINIUS—"Rivvie".

Pasadena, Calif.; Born Jan. 6, 1903; Prepared at Pasadena High School; Entered 1921; Engineering and Economics; Economics Club (3), Sec-Treasurer (4); Tech Staff (4).

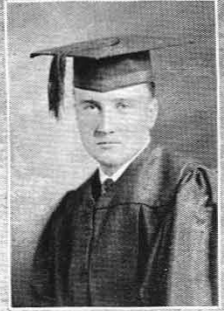
"A rosebud set among thorns."





MARKHAM ELMER SALSURY—"Ham".

Gnome Club, Press Club.
Santa Barbara, Calif.; Born Oct. 17, 1903; Prepared at Puente Union High School, California; Entered 1921; Civil Engineering; Annual Staff (1), Managing Editor (2, 3, 4); Tech Staff (1, 2), Managing Editor (3), Associate Editor (4); Glee Club 1, 2), Manager (3), President (4); Y. M. C. A. (1, 2, 3, 4), Vice-President (3); Board of Control (2, 3, 4); Court of Traditions Prosecutor (2); Manager of Musical Activities (4); A. S. C. E. (2, 3, 4); Honor Key (2, 3, 4).
"Close the door when you go out."



PERCIVAL THOMAS WALTER SCOTT—

"Perk".
Yorba Linda, Calif.; Born July 30, 1904; Prepared at Fullerton High School and Junior College; Entered 1922; Electrical Engineering; A. I. E. E. (4).
"Don't bother me now."



WILLIAM DOUGLAS SELLERS—"Doug".

Pi Alpha Tau.
Pasadena, Calif.; Born January 6, 1903; Prepared at Pasadena High School; Entered 1920; Electrical Engineering; Tennis (1); Basketball (1); Football (1, 2), Letterman (3); Tech Staff (2, 3); Glee Club (3); A. I. E. E. (2, 3, 4).
"Did you call on me?"



EDGAR ESTERLY SHAFER, JR.—

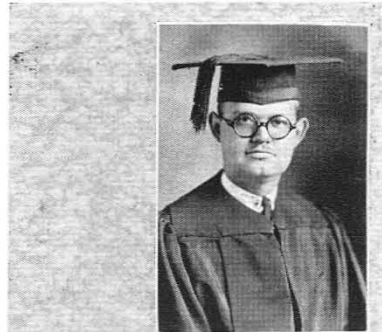
"Shafe".
Alhambra, Calif.; Born Jan. 1, 1904; Prepared at Alhambra High School; Entered 1921; Chemical Engineering; Swimming (1); Basketball Letterman (2, 3, 4); Chem Club (2, 3, 4).
"Try a three-cushion on that."

HAROLD CLOUGH SHEFFIELD—

"Sheff".

Gnome Club, Pi Kappa Delta.
South Pasadena, Calif.; Born Sept. 29, 1903; Chemical Engineering; Debating (1); Glee Club Entertainer (1, 2); Football (1, 2); Tennis Letterman (3, 4), Manager (4); Annual Staff (3, 4); Tech Staff (3, 4); Band Drum Major (3, 4).

"He can imitate them, too."



DWIGHT OLNEY SMITH—"Smeese".

A. B., U. of Redlands, 1922.

Long Beach, Calif.; Born June 19, 1900; Prepared at Cedar Rapids High School, Nebraska; Entered 1923; Mechanical Engineering; A. S. M. E. (4).

"Still waters run deep."



NEAL DEFFEBACH SMITH—"Mose".

Reedley, Calif.; Born Oct. 3, 1902; Prepared at Reedley High School; Entered 1921; Physics and Engineering; Orchestra (1, 2, 3); A. I. E. E. (4).

"True blue."

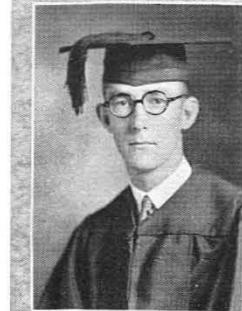


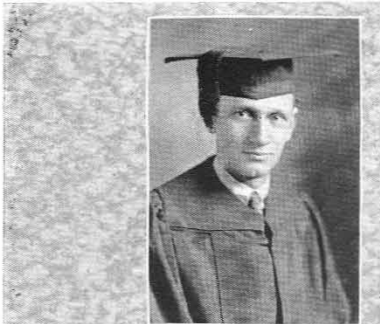
GEORGE CURTISS SPELMAN—"Tricky".

Tau Beta Pi.

Santa Monica, Calif.; Born June 20, 1903; Prepared at Santa Monica High School; Entered 1921; Mechanical Engineering; Tech Staff (3, 4); A. S. M. E. (4); Y. M. C. A. (3, 4).

"As conscientious as can be."





CLEMENT BERNHARD STERN, JR.—

"Bernie".

San Diego, Calif.; Born Sept. 24, 1902; Prepared at San Diego High School; Entered 1920; Electrical Engineering; Football (1); Track (1); A. I. E. E. (4).

"Let's go to the Montmartre."



EARL DELORIS STEWART—"Stew".

Tau Beta Pi, Pi Kappa Sigma.

Huntington Park, Calif.; Born Aug. 15, 1899; Prepared at South Bend High School, Indiana; Entered 1921; Chemistry; Chem Club (2, 3), President (4); Chorus (3); Swimming (3).

"A potential 'Pasteur.'"



JOHN DICKSON TEMPLETON.

Tau Beta Pi.

Casper, Wyo.; Born Feb. 17, 1895; Prepared at Woonsocket High School, S. D., and University of Minnesota; Entered 1921; General.

"A man of will."



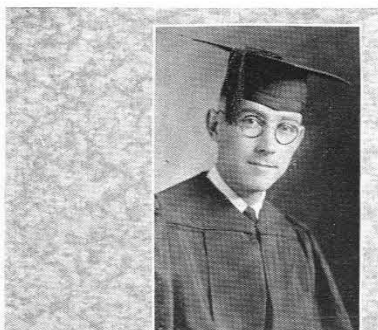
NEWTON HENRY TEMPLIN—"Isaac".

Pasadena, Calif.; Born June 19, 1904; Prepared at Citrus Union High School, Azusa, Calif.; Entered 1921; Civil Engineering; Tech Staff (2, 3, 4); Annual Staff (3); Football (3, 4); A. S. C. E. (3), Secretary (4).

"It's my turn now."

EDWIN FORCE THAYER—"Ed."

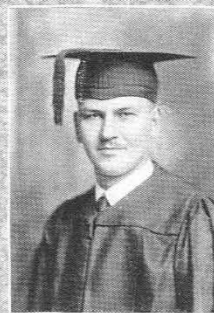
Gnome Club, Pi Kappa Delta, Press Club.
Pasadena, Calif.; Born May 7, 1903; Prepared at Pasadena High School; Entered 1920; Engineering and Economics; Tech Staff (1, 2, 4, 5); Annual Staff (2, 3, 4), Editor (5); Band (1); Debating (1, 2, 4, 5), Manager (3); Publicity Manager (4); Exhibit Day Manager (4); Economics Club (4, 5), President (3); Honor Key (4, 5).
"His many talents well employed."



WILFRED GREGG THOMPSON—

"Tommy".

Hemet, Calif.; Born Feb. 15, 1900; Prepared at Hemet Union High School; Entered 1918; Mechanical Engineering; Football (2); Swimming Letterman (2, 3, 4); A. S. M. E. (4).
"Plunges, but not in stocks."



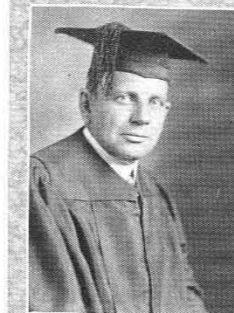
JOSEPH HURD WALKER, JR.—"Joe".

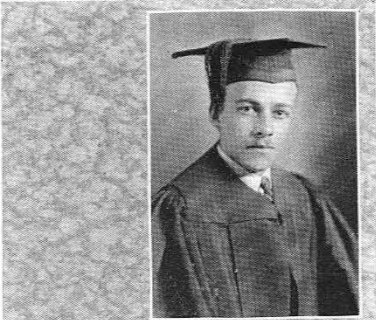
Gnome Club, Pi Kappa Delta, Press Club.
Hollywood, Calif.; Born Oct. 11, 1903; Prepared at Hollywood High School; Entered 1921; Engineering and Economics: Debating (1, 2, 3, 4); Band (1, 2, 3, 4); Tech Staff (2, 3, 4); Annual Staff (2, 3, 4); Conger Peace Prize (2); Economics Club (3, 4); Publicity Manager (4); Honor Key (2, 3, 4).
"We just know he's engaged."



CONRAD JUDSON WALLER—"Monk".

Pasadena, Calif.; Born Nov. 14, 1884; Prepared at Central High School, St. Paul, Minn., and U. of Minnesota; Entered 1922; Engineering and Economics; Glee Club (2, 3, 4); Chorus (3, 4); Tech Staff (4).
"Well versed in—most anything."



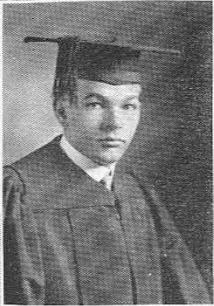


ROBIE THOMAS WATKINS—"Tarzan".

Sigma Alpha Pi.

San Bernardino, Calif.; Born May 15, 1902; Prepared at San Bernardino High School; Entered 1921; Mechanical Engineering; Annual Staff (1); Tech Staff (1, 2, 3, 4); Basketball Manager (3); Class Vice-President (3).

"What is so rare as a day in June?"



KEITH MAPLE WILSON.

Pi Kappa Delta.

Colton, Calif.; Born Nov. 14, 1904; Prepared at Colton High School; Entered 1921; Electrical Engineering; Debating (1); Dorm Club President (4); A. I. E. E. (3, 4).

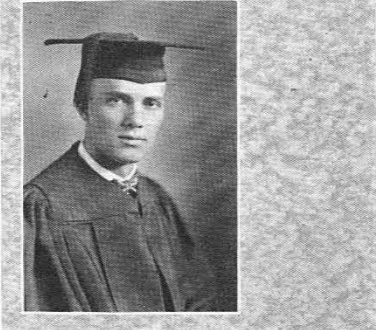
"King of Dormenia."



EDMOND EMILE WINCKEL—"Winnie".

Hollywood, Calif.; Born Jan. 13, 1903; Prepared at The Hague, Holland; Entered 1921; Civil Engineering; Swimming (1); A. S. C. E. (2, 3, 4).

"Hollywood's best."



WILLIAM STEPHEN KINGSBURY, JR.—

"Steve".

Pi Alpha Tau, Press Club.

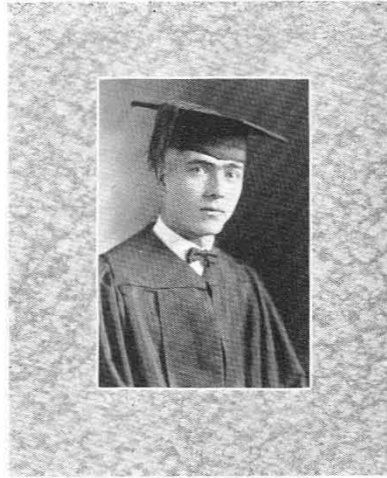
Sacramento, Calif.; Born Feb. 19, 1903; Prepared at Sacramento High School; Entered 1920; Civil Engineering; A. S. C. E. (2, 3, 4); Tech Staff (4); Annual Staff (4).

"Today's Ignoble Prize goes to — —."

GLENN MARCUS SCHLEGEL—"Glenn".

Sigma Alpha Pi, Pi Kappa Sigma.
Los Angeles, Calif.; Born Feb. 24, 1902;
Prepared at Manual Arts High School, Los
Angeles; Entered 1920; Civil Engineering;
Baseball (1); Chairman Dugout Committee
(4); Athletic Manager (4); A. S. C. E.
(2, 3, 4).

"A whiz for results."



CASUALTIES

- AGGELER, WILLIAM FORD, member of class 1922-24; now with Pacific Gas and Electric, San Francisco.
- ANDERSON, CHARLES JAMES, member of class 1921.
- ANDERSON, CLARENCE TRAVIS, member of class 1921-24; now at Stanford.
- ANDREN, CHARLES CLARENCE, member of class 1922-23; now with L. A. County Flood Control Commission.
- ASHLEY, CLIFFORD LEROY, member of class 1921-23; now member of class of '26.
- BANN, DIXIE, member of class 1921-23; now in Arizona.
- BARKER, FORREST WEST, member of class 1921-23; now in oil-fields at Taft, California.
- BARNES, FREDERICK MUNSON, member of class 1921; now with a stage company in Pasadena.
- BARNES, LELAND SPENSER, member of class 1921-22; now at Occidental.
- BARNES, ORRIN HAYWARD, member of class 1921-23; now member of class of '26.
- BEASLEY, BINKLEY BENJAMIN, member of class 1921.
- BEAUFORT, JAN MARTINUS MARIE, member of class 1921-22; now at Stanford.
- BERGER, CLARENCE EDGAR, member of class 1921.
- BISSELL, GEORGE, member of class 1921.
- BLACK, FRANK KENNETH, member of class 1921-22; now with Standard Oil Co. at Van Nuys.
- BLACKBURN, DUNCAN ARNOLD, member of class 1923-24; now with City of Pasadena.
- BLACKMAN, RALPH, member of class 1921-24; now in a garage in Los Angeles.
- BOGREY, RUSSELL ROBERT, member of class 1921-23; now with surveyor in Pasadena.
- BOSSCHELL, EDSON JAYNES, member of class 1923-24; now selling radios in Los Angeles.
- BOWMAN, ROBERT B., member of class 1921-24; now member of class of '25.
- BURNETT, ROBERT N., member of class 1921.
- BUTLER, SELLA, member of class 1921-22; now a surveyor with L. A. County.
- BROSSY, FREDERIC ALBERT, member of class 1922-23; now in cleaning and dyeing business, Detroit, Michigan.

The Big G

CADY, DEANE PEAKE, member of class 1921.
 CALIN, FELIX, member of class 1921.
 CAMERON, MALCOLM PAUL, member of class 1921-22; now at Cornell University.
 CAMPBELL, CLYDE LEROY, member of class 1921-23; now at Stanford University.
 CANNON, KENNETH BLACKMAN, member of class 1921-23; now in Europe on his honeymoon.
 CAREY, RICHARD SOMERVILLE, member of class 1921-23; now at U. C. at Berkeley.
 CARTWRIGHT, EUGENE EWING, member of class 1922-24; now a chemist with American Cyanide Company.
 CHILDS, RAYMOND FRANK, member of class 1923-24; now member of class of '26.
 COLLINS, ALBERT PRESTON, member of class 1921-22; now a draftsman with L. A. County.
 COLQUHOUN, GERALD, member of class 1921.
 COPELAND, LUCIUS BENTLEY, member of class 1922-23; now doing research for an oil company in San Pedro.
 COSE, ROBERT WALTER, member of class 1921.
 CRONK, HAROLD, member of class 1921-22; now at Oregon Agricultural College.
 CROWLEY, HOMER LAWRENCE, member of class 1922-23; now at U. C. at Berkeley.
 DRESSER, HAROLD ALBERT, member of class 1922-23; now member of class of '26.
 DRUMMOND, JOHN RINGEN, member of class 1921-22; now on a trip around the world.
 EDELS, IRVING, member of class 1922-23.
 EDGERTON, WILBUR BACON, member of class 1921-22.
 EIDELSON, ABRAHAM, member of class 1921-23.
 ENDSLEY, HARLIE MARCELLUS, member of class 1921-23; now a Ford mechanic at Van Nuys, California.
 ERICSSON, CARL GUSTAV, member of class 1923-24; now member of class of '26.
 FARLEY, GEORGE MAURICE, member of class 1921-23; now member of class of '26.
 FARMAN, IVAN L., member of class 1921-24; now member of class of '26.
 FENNER, LAWRENCE GILBERT, member of class 1923-24; now member of class of '26.
 FLICK, CLIFFORD R., member of class 1921-22; now at U. S. C.
 FORD, THEODORE GARFIELD, member of class 1921-22; now at U. C. at Los Angeles.
 FOWLE, ROYAL EDGAR, member of class 1922-24; now with construction company in San Fernando.
 FREEMAN, HENRY ROSS, member of class 1921-22; now surveyor with Los Angeles County.
 GARRETT, NEAL, member of class 1921; now at U. C. at Berkeley.
 GARVER, GEORGE LOUIS, member of class 1921-23; now with Santa Fe R. R.
 GILLILAND TED REDMOND, member of class 1922-23; now member of class of '26.
 GOCKLEY, ROSCOE, member of class 1922-24; now member of class of '26.
 GROCH, FRED RESTON, member of class 1922-23.
 HAHN, CARL KWAN, member of class 1923.
 HALE, FRANK SHERMAN, member of class 1921-22; now member of class of '27.
 HASKIN, JOSEPH ROBERT, JR., member of class 1921-22.
 HELLWIG, HAROLD, member of class 1921-22.
 HENDERSON, WILLIE G., member of class 1921-24; now at Alpine, Texas.
 HERNER, ERNEST PAUL, member of class 1923-24; now at Pomona College.
 HOFFMAN, MARCUS IRVEN, JR., member of class 1921-23; now with ornamental iron works in Los Angeles.
 HOFFMAN, WALTER WESSELHOEFT, member of class 1922-23.
 HULL, RALPH ALLEN, member of class 1922-23.
 JONES, MAURICE T., member of class 1922-23; now member of class of '26.
 KEECH, DOUGLAS WILLIAM, member of class 1921-23; now at Oregon Agricultural College.
 KING, ROMAIN LIVERMORE, member of class 1921-22; now at U. of Cal. at Berkeley.
 KINSEY, JOHN EDWARD, member of class 1921-24; now member of class of '26.
 KIRKEBY, EUGENE, member of class 1921-23; now member of class of '26.
 KNIASEFF, VASILY, member of class 1923-24.
 KNOX, CARL BRADFORD, member of class 1921-24; now member of class of '26.

KNUPP, SEERLEY GNAGY, member of class 1921-22; now member of class of '26.

LAURENCE, HAROLD WARREN, member of class 1921.

LAWS, ALLEN LEE, member of class 1921-24; now member of class of '26.

LEONARD, LEONID VLADIMIROVICH, member of class 1922-24; now with General Petroleum Co.

MAAG, ERNEST, member of class 1921-24; now member of class of '26.

MARTIN, HAROLD JUDSON, member of class 1921-24; now with City of Los Angeles.

MARTIN, HOYT FELLOWS, member of class 1921-23; now at Los Angeles College of Osteopathic Physicians and Surgeons.

MATTHEWS, WILLIAM W., member of class 1921-22.

MAY, DAVID CHAPIN, member of class 1922-23; now at U. S. C.

McALLISTER, EDGAR HILL, member of class 1921-23; now studying penmanship.

McFARLIN, GERALD HARMON, member of class 1921-23; now Ford salesman in Oakland, California.

McGAFFEY, DONALD FOX, member of class 1921-23; now a partner in building material supply company in Los Angeles.

MELNIKOFF, DEMITRY NICHOLAS, member of class 1923-24; now member of class of '26.

MERRILL, RICHARD HENRY, member of class 1921-24; now in a garage at Oceanside, Calif.

MERRILL, ROBERT ARTHUR, member of class 1923-24; now at University of Illinois.

METZGER, DONALD E., member of class 1921-22.

MILLS, BRUCE HOPF, member of class 1921-23; now member of class of '26.

MORRISON, ALLEN JAMES, JR., member of class 1921-23; now member of class of '26.

MORTIMER, GODFREY GOOLD, member of class 1921-22; now with Steven's Hardware Co., Pasadena.

NEWQUIST, FRANK ALBERT, member of class 1922-23.

NICHOLSON, WALWORTH WILLIAM, member of class 1921-22.

NEUBURG, DONALD HENRY, member of class 1922-23.

NOBLE, WILFRED McNEIL, member of class 1922-23; now at Pasadena Junior College.

O'MEARA, LAWRENCE BYRON, member of class 1921-22; now at Los Angeles College of Osteopathic Physicians and Surgeons.

PERKINS, DONOVAN RAY, member of class 1921-22; now a draftsman with City of Los Angeles.

PERKINS, PAUL, member of class of 1921-23; now at Occidental.

PETERSON, EARL RANDOLPH, member of class 1921-24; now member of class of '26.

PETERSON, HILMER FRED, member of class 1921-23; now member of class of '26.

POMPEO, DOMENICK JOSEPH, member of class 1921-24; now member of class of '26.

RAPP, CLINTON, member of class 1923-24; now a surveyor in San Diego.

RIEHL, JULIAN W., member of class 1921.

ROSE, ERNEST MORTON, member of class 1922-23.

ROSS, PAUL K., member of class 1921-22.

ROBERTSON, KENNETH WAYNE, member of class 1921-22.

SANSON, KENNETH DUDLEY, member of class 1921-22; now at Stanford.

SASSO, ANIAS NISSIM, member of class 1921-22; died 1924.

SCHLIERBACH, LOUIS THEODORE, member of class 1921-22; now with Standard Oil Co. in Pasadena.

SCHUMACHER, KARL FRITZ, member of class 1921-24.

SCHUMAKER, HALSEY RHEES, member of class 1922-24.

SCHULZ, HERBERT CLARENCE, member of class 1921-23; now at Huntington Library, Pasadena.

SCOTT, OLIVER BLACKFORD, member of class 1921-23; now with Pacific States Electric Co., Los Angeles.

SCOTTEN, WILLIAM EVERETT, member of class 1921-22; now at U. S. C.

SCUDDER, NATHAN FROST, member of class 1921-24; now at a mine in Nevada.

SEYMOUR, STUART LEWIS, member of class 1921-24; now member of class of '26.

SONNABEND, MAX LEO, member of class 1921-23; now at Green Mill, Los Angeles.

The Big T

SIEGFREID, RALPH, member of class 1921-23; now selling bonds for a bank in Los Angeles.
SMITH, CECIL SIDNEY, member of class 1921-22.
SMITH, JAMES HARRISON, member of class 1921-23; now selling insurance in Los Angeles.
SPURLIN, COLLIS DAVID, member of class 1921-22; now with Bell Telephone Co., L. A.
STANTON, ROBERT JAMES, member of class 1921-23; now in printing business in Los Angeles.
STONE, DONALD STEWART, member of class 1921-23; now member of class of '26.
SWITZER, BAYNARD A., member of class 1921-22; now a forest ranger at Strawberry Flats.
TACKABURY, HOWARD STEVELY, member of class 1921-23; now selling real estate in L. A.
TANAKA, MASARU, member of class 1923-24.
THACKER, GERALD, member of class 1923.
THOMPSON, WALTER PHILLIP, member of class 1921-22.
ULMER, JAMES HENRY, member of class 1921-22; now a musician.
VROMAN, GERALD THEODORE, member of class 1921-23.
WALTERS, JOHN KEAN, member of class 1921-22; died 1923.
WARD, DONALD ERNEST, member of class 1921.
WATERSTON, WILFRED W., member of class 1921-22.
WEINLAND, CLARENCE EBERMAN, member of class 1921-23; now member of class of '26.
WHALEY, KENNETH LEROY, member of class 1922-23; now with surveyor in Glendale.
WINTER, ARTHUR F., member of class 1921.
WISEGARVER, BURNETT BLANCHARD, member of class 1921-22; now member of class of '26.
WISSIG, SAMUEL, member of class 1921-23; now at U. C. at Berkeley.
WOLFINGER, LOUIS FREDERICK, member of class 1921-22; now in Arizona.
WULF, NORMAN HERBERT, member of class 1922-23.
WRESTLER, ORA LORENZO, member of class 1923-24; now a conductor with the Pacific Electric.
YOUTZ, JOSHUA ELLSWORTH, member of class 1921-23; now at U. S. C.
ZAPP, JOHN JOSEPH, member of class 1921.

IN MEMORY OF OUR CLASSMATES

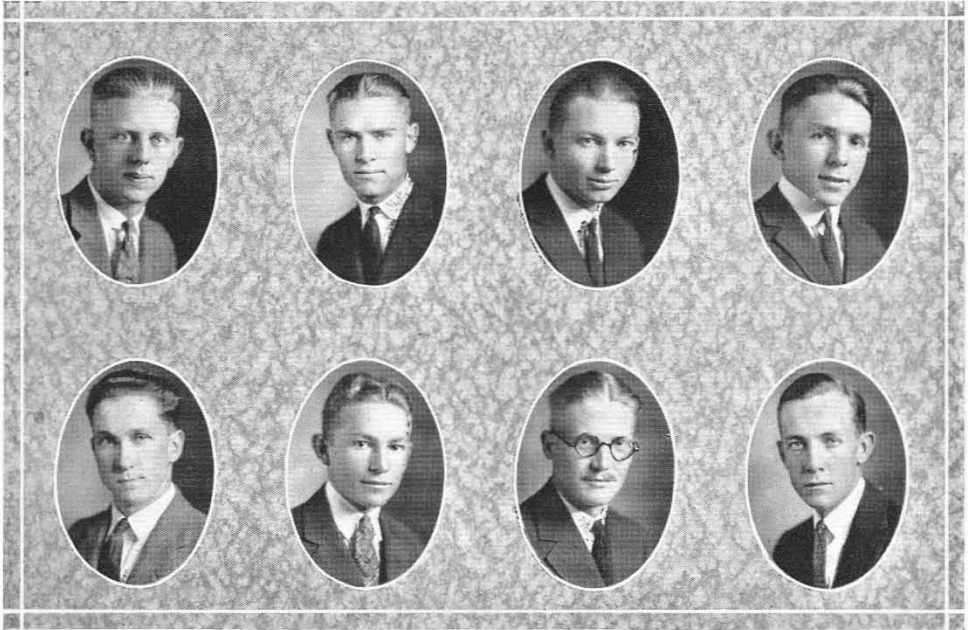
Anias Nissim Sasso

John Kean Walters

OTHER CLASSES



CLASS OF 1926



LEWIS
COPELAND

GRAHAM
COLEMAN

HANSON
PETERSON

CUNNINGHAM
PARNALL

OFFICERS

President	GLENN GRAHAM
Vice President	VICTOR HANSON
Sec.-Treasurer	WILLIAM LEWIS
Athletic Manager	HARRY CUNNINGHAM

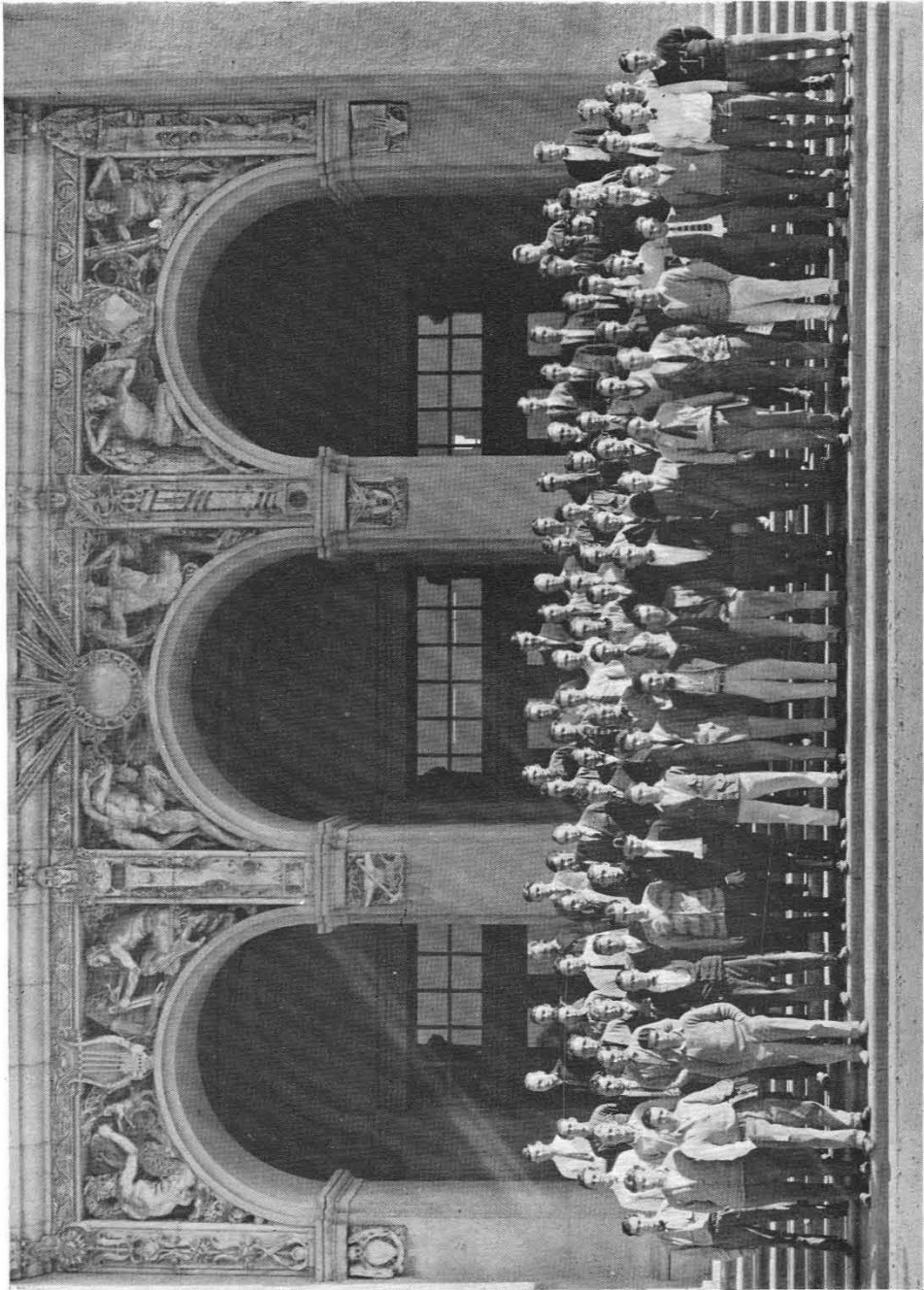
BOARD OF CONTROL

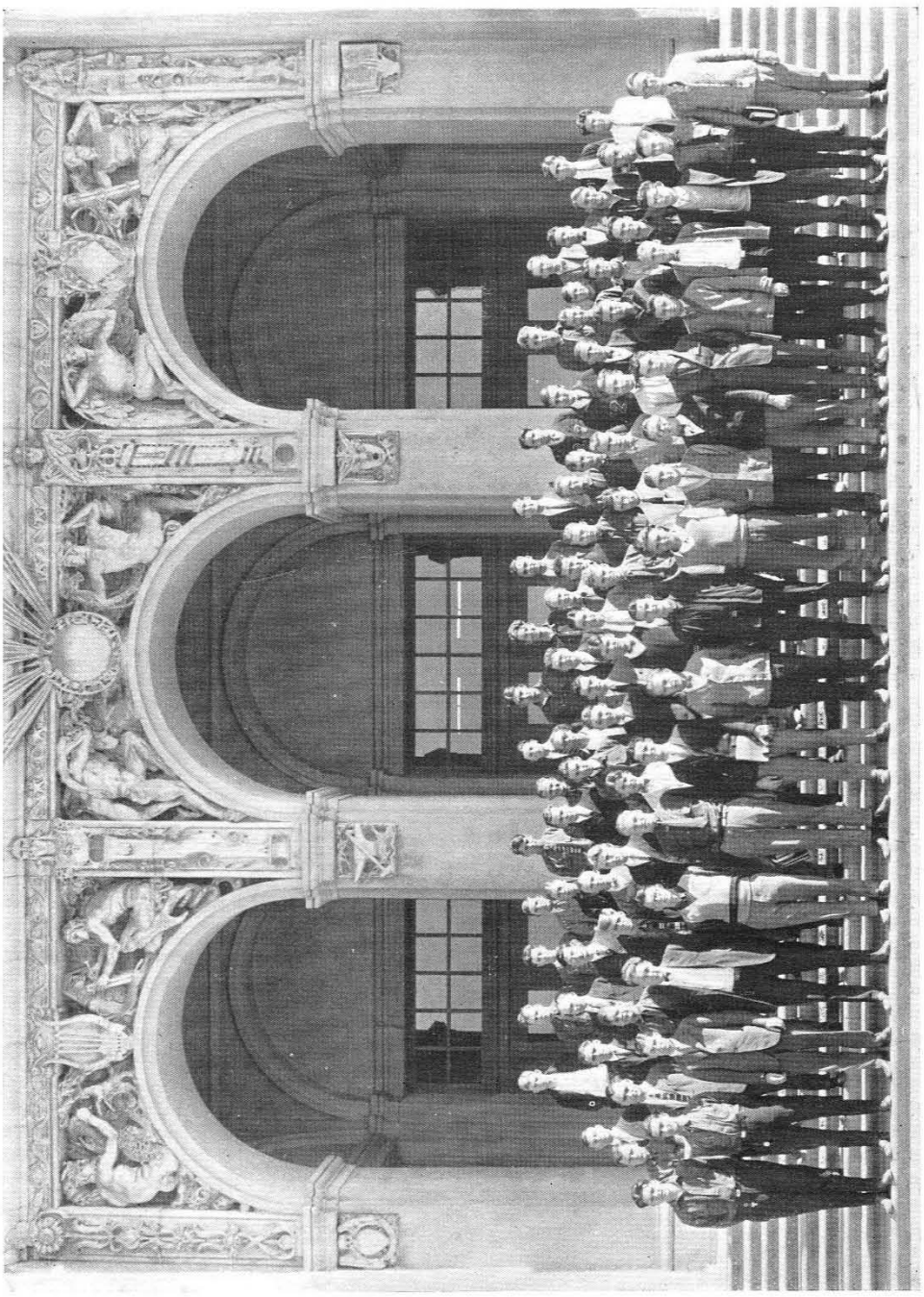
TED C. COLEMAN—RALPH COPELAND—H. FRED PETERSON—SAM PARNALL

DANCE COMMITTEE

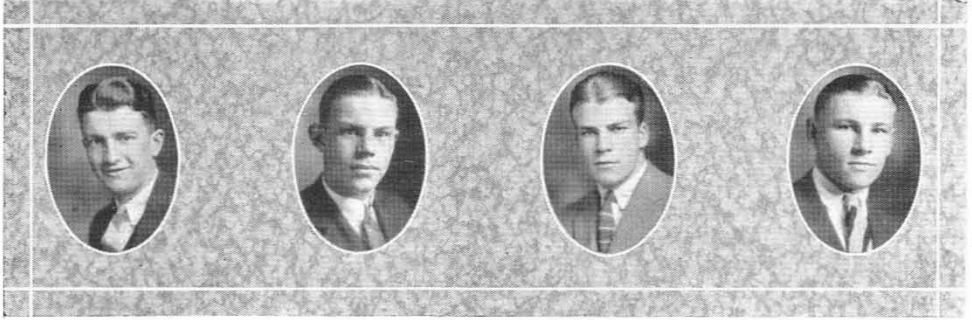
JOY A. VAN DEN AKKER, *Chairman*

RAY COPELAND	SAM PARNALL
ALLAN J. MORRISON	GEORGE RUSSELL





CLASS OF 1928



EVANS

ROBINSON

CHILBERG

MOHR

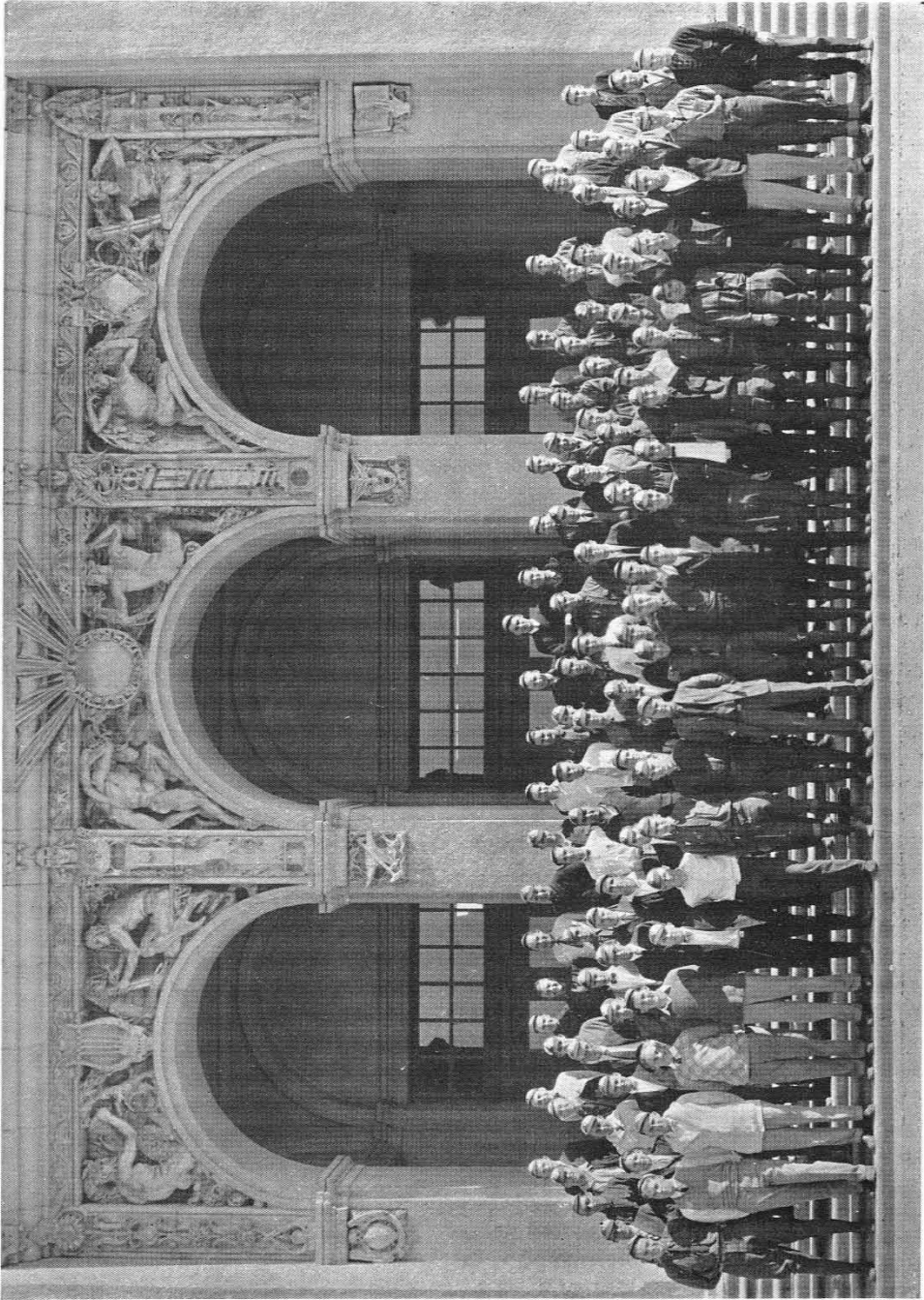
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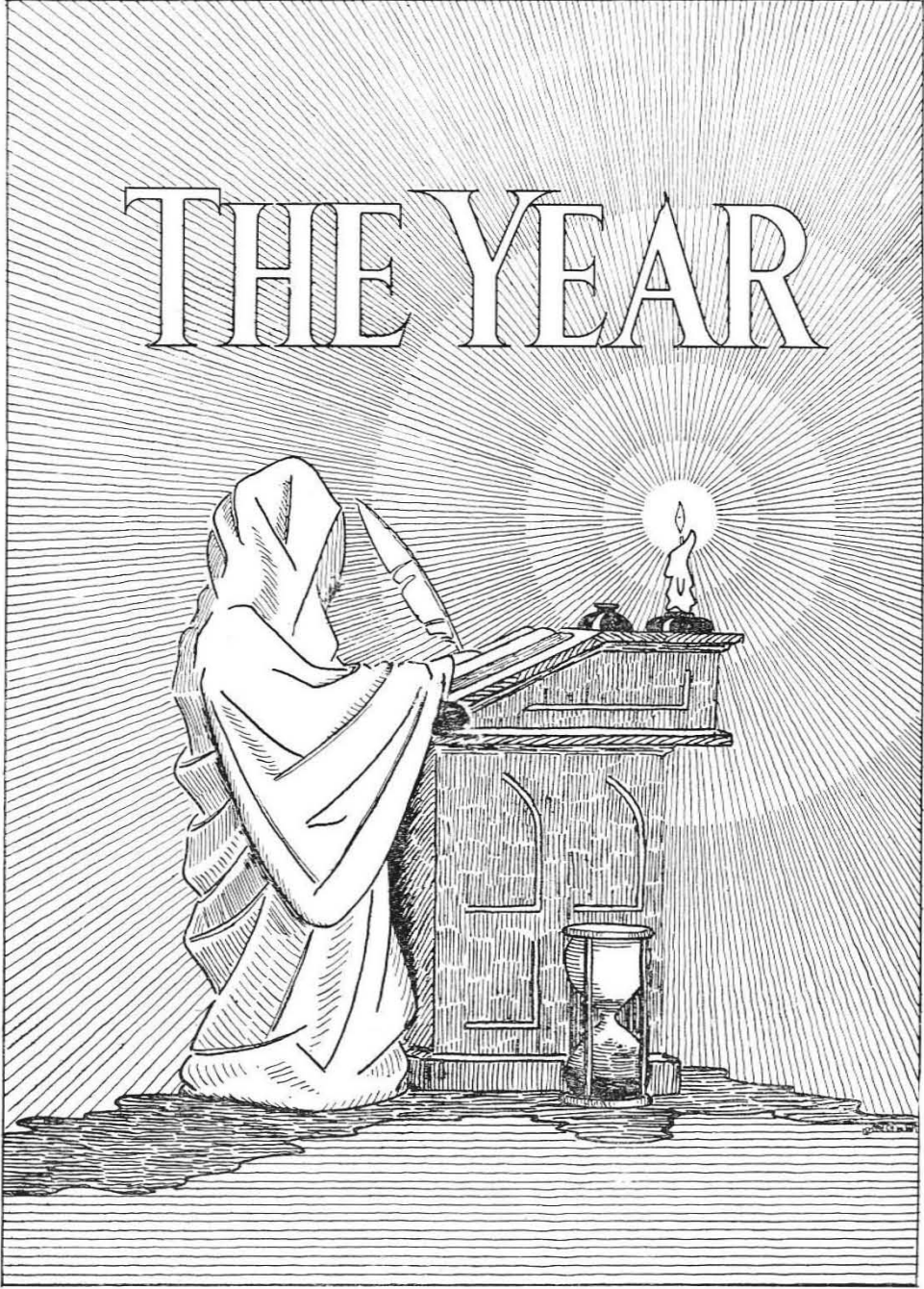


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The T Big

THE YEAR



SUMMER CAMP

CAMP LEWIS near Tacoma, Washington, throbbed with life again last summer as many of the R.O.T.C. units from the Pacific Coast gathered there for the annual six weeks of summer work.

The units attending were not confined to the Engineer Corps, but represented the Artillery, Cavalry and Infantry forces as well. Among the engineering units Tech filled its quota, and the Tech men were well to the front in all activities as usual. On the rifle range the Tech men distinguished themselves particularly, a large percentage of the "Expert" awards going to Tech representatives, while three of the Tech men qualified among the best ten, thus earning a trip with the team to the national meet at Camp Perry, Ohio.

The growing popularity of the camp is attested by the increasing number of men who go each year, especially from the two lower classes. The camp offers a privilege and experience that every man should take advantage of at least once in his college career, and one that he will never forget nor regret.

Y CABINET RETREAT

As a last bit of carefree vacationing the members of the Y Cabinet retired to Switzer's Camp for a two day outing in the week preceding the opening of college. This furnished a splendid opportunity to become acquainted with Charles Schwieso, the new general secretary of the Tech "Y." The annual retreat was greatly enjoyed by the 14 fellows who were included in the party and the working organization for the current year was greatly strengthened by the splendid opportunity afforded to discuss new ideas and to become better acquainted with one another.



DORM DANCES

The Dormitory Club, as is its usual custom, started the college social when on October 11, it held an informal dance in its spacious living room. The decorations were tastefully arranged with orange and white streamers, giving a very pleasing appearance. Enchanting music was dispensed by Frank Wiegand's Orchestra.

A second Dorm dance was held on April 11, in the Dugout. This was a "hard time" affair" and many amusing costumes were present. Novelty, tag and prize dances added to the interest and a more enjoyable evening could not have been spent. The Dormitory Club upheld its enviable reputation as hosts in these two affairs, both of which were more than successful.

FROSH-SOPH RODEO

UNTIL recent years, the annual struggle for supremacy between the two lower classes took the form of a pole rush, in which the freshmen attempted to remove a certain portion of a canvas "flag," securely fixed to a greased pole and jealously guarded by the sophomores.

This affair, however, threatened to become too brutal as well as often too shocking for public gaze and it was replaced in the fall of 1923 by a tie-up, which still gave all the elements of an organized fight, with little chance for serious injury to the participants.

The new contest consisted in choosing two teams from members of the opposing classes and furnishing each team with strips of canvas with which they endeavored to tie up as many as possible of the opposing team, the struggle being held in an eighty-foot square laid out on the turf in Tournament Park.

This year the contest was further altered to include, in addition to the tie-up, two tugs of war, the class winning a majority of the three events to be declared the winner.

On the afternoon of October fourteenth, a challenge having been duly issued and accepted, the two classes met in mortal combat. The inexperience and lack of organization of the freshmen put them at a great disadvantage in the tie-up and it was not infrequent to see a protesting freshman being tied up by his own teammates. Before the half hour was up, the sophomores had tied and dipped in a mud bath all of their sixty-five opponents, while only ten of their own number had so suffered.

When the contest was ended, the two teams were indeed a sight to behold and they were evidently not in the kindest of spirits, for the tug of war, which was held immediately afterwards, was marked by such frequent violations of the rules that a decision was impossible and the remaining events were postponed until the following week.

It was then that the freshmen, still stinging under the treatment they had received the week before, staged a remarkable come-back and easily won the first tug of war from the class of twenty-seven. In fact, it required but forty seconds for the youngsters to pull the rope away from the surprised sophomores.

The Rodeo honors being thus evened, the remaining tug was quite a different story, as neither team was desirous of losing the deciding event. It was only during the last half-minute of the allotted time that the freshmen, heaving in perfect unison, succeeded in carrying the marker about two feet beyond the center line.

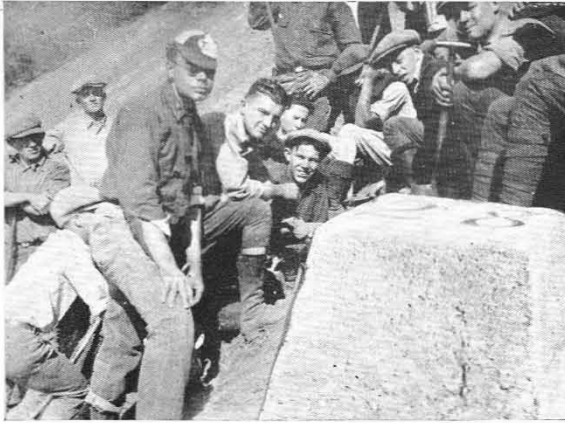
As a result of their victory, the class of twenty-eight has the distinction of being the third freshmen class to win the annual sophomore-freshman contest since the tradition was inaugurated in 1914. Best of all, perhaps, they became the recipients of a delightful dance in Culbertson Hall on the evening of November eighth, at which the sophomores were the hosts.



FRESHMAN "T" PARTY

THE class of '28, following a tradition established nearly ten years before, started out on the morning of October twenty-fifth to give the big T on the mountain-side its annual scouring.

Armed with picks, shovels and hoes, the frosh left the Mt. Wilson toll gate at seven o'clock for their dusty pilgrimage up the mountain, arriving at the scene of action about an hour and a half later.



With a zeal that would have brought them high honors in the class-room, the freshmen showed that they had evidently had previous experience with pick and shovel, for in a little more than an hour the task was complete and the big letter once more stood out clean-cut and square, a fitting monument to the spirit of Tech.

The class corner-stone was placed in one of the lower corners of the T, the cement being mixed and poured in the form with appropriate ceremony.

Just as the laborers were gathering together their tools and surveying with satisfaction the results of their work, the "Y" car arrived, loaded with doughnuts and apples, and all other thoughts were put aside for the time being.

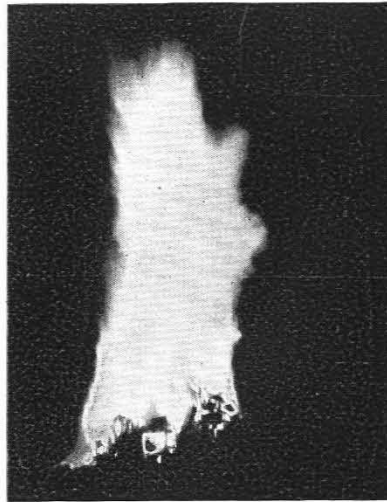


OXY RALLY

On the evening of November 10, over four hundred Tech men and friends gathered in the Quad before Throop Hall for the annual Oxy rally. A huge stack of wood which had been gathered by the Freshman was lighted. In the glow cast by the burning pile yells and songs were led and never before had old Throop Hall heard such lusty cheers as those which went up then for the fighting Beavers.

Under the direction of the Sophomore class a mimic Oxy-Tech football game progressed. So much Tiger meat was taken by the Beavers that it was doubtful if the kitty would survive.

Two former football captains, "Dick" Hambrook, '21, and "Bernie" Evans, '23, Professor Sorenson and two jazz artists all did their bit to knock pep skyward.



THE BONFIRE

Singing that old fighting song:

"Oh, if I had a daughter I'd dress her up in green,
And send her over to Oxy to coach the football team.
And if I had a son, sir, he'd go to Tech, 'tis true,
And he'd yell, 'to Hell with Oxy,' like his daddy used to do."

the Tech men pulled pajamas over their clothes and marched through the town, waking up sleepy townspeople with yells and song. Competition was added in the business district by the "twittering twenty," Oxy rooters who were on the scene and by the blating of hundreds of horns on machines stalled by the pajamarino. After serenading the various theaters and the jail, the pajama clad figures disbanded, resolving to make, on the morrow, the biggest fight for victory ever known.

TECH STAFF THEATER PARTIES

The staff of "The California Tech" enjoyed the hospitality of two of Pasadena's foremost theaters, the Raymond and the Community Playhouse, on October 28 and January 20, respectively. At the Raymond, "Cheating Cheaters" was presented before the journalists. This play is a very clever crook story of the highest order and contains some very vigorous and surprising action.

"If Everybody Had a Window in His House Like This," was the play which the staff enjoyed at the Community Playhouse. Especial interest was lent the play because of the fact that our own Mr. Loofbourrow and his wife were in the cast. The "Tech" staff enjoyed the two evenings exceedingly and are indebted to the managers of the two theatres for the enjoyable evenings.

ARMISTICE DAY PARADE

Tech men played no small part in the celebration of Armistice Day in Pasadena this year. The R. O. T. C. was represented by a large company led by Captain Moore with Lieutenants Newton and Stewart acting as color guards. Cal Tech's Band, 100 per cent strong, was another important part, making a great impression with the townspeople with its superior playing. The line of march led to Library Park where the patriotic ceremonies were held. Here the faculty was represented by Dr. Millikan who gave an address on "A Better America," and Captain Perigord who was chairman of the program committee.

The Band appeared in white uniforms at the Bowl in the afternoon and participated in a fancy drill which was received with cheers and applause from the audience.

TAU BETA PI DANCES

On December 3 and April 4, the members of Tau Beta Pi held their semi-annual dances in Culbertson Hall.

At the first affair, Thurman Peterson's orchestra played, and at the second, Bob Evan's. About seventy-five couples were present at each dance and expressions of satisfaction indicated that they were very successful.

At both dances the Tau Beta Pi initiates put on stunts for the amusement of those present and covered themselves with glory in so doing.

JUNIOR-SENIOR DANCE

On Saturday evening, December 6, Culbertson Hall was the scene of a very delightful affair when the two upper classes held a small, informal dance. The hall was lighted with colored globes and spotlights added to the soft and sombre effect. To the enchanting melodies played by the Blue Velvet Syncopaters. The couples tripped lightly over the floor or sat out the dances in the cosy balcony.

One of the features of the evening was the clever dances given by Miss Marion Edwards and Miss Aileen Rainbolt. The whole affair proved to be very successful and more of its kind were promised by the upper-classmen.

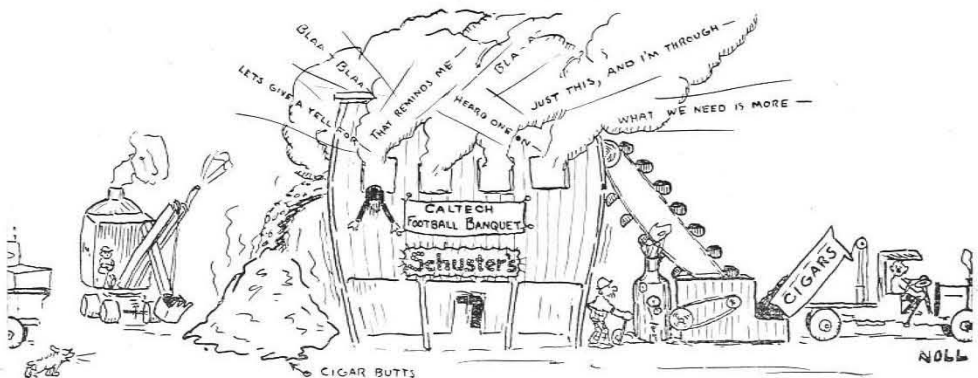
FOOTBALL BANQUET

WITH the usual pep and fun, the Eleventh Annual Football Banquet was held on December 12, at Schuster's Cafe in Pasadena. About two hundred and fifty students, faculty members and alumni attended.

Professor Sorenson was in his usual capacity as toastmaster and official joke purveyor, handing out red hot quips which bettered his enviable reputation in that line. Professor Sorenson made some very interesting remarks in the course of the evening regarding the sport of football. He defined a football fool for those present as one who never plays football, plays too much, plays to win, plays little and talks much or plays none and talks much.

In regard to the Whittier affair, he said that it would be best to keep still for the present.

Coach Stanton was the first speaker of the evening and emphasized once more the necessity of holding the right thought in regard to the games. He declared that the proper mental attitude would have given us the sustained driving offense which was the only thing lacking in this year's team. The coach also declared that our teams were hampered by the rigid scholastic standards here and suggested as a remedy all-year-round practice in all sports.





Mr. H. W. Wheaton, formerly of Yale and Coach Stanton's ideal coach, presented a cup which is to be known as the "Wheaton Trophy." Each year this cup will have engraved upon it the name of that Tech football man who has been selected by his teammates as deserving that honor. In the selection of that man, the points to be considered are scholarship, moral influence and sportsmanship. This cup typifies Mr. Wheaton's attitude towards sports—playing them not merely to win, but playing fairly and squarely for the love of the game.

Mr. David Blankenhorn, who last year gave a large endowment for Tech athletics, told of the value of athletics in later life and how they develop personality and the ability to meet men. All of the varsity men made speeches and cracked their best jokes. Byron Hill spoke for the second team, Clarence Haserot for the scrubs and Howard Dodge for the frosh. As an evidence of their appreciation for his good work, frosh coach Evans was presented with a gold football by the youngster's team.

Following the speeches, sweaters were presented to thirteen varsity players. These men were Captain Raymond Alderman, Captain-elect Jack Baker, Frank Foster, Stuart Seymour, Michael Brunner, Seymour Larabee, Stuart Johnson, Layton Stanton, Leroy Newcomb, Robert Heilbron, Edward Kinsey, George Moore and Frank Nickell.

FRESHMAN DANCE

On the evening of December twentieth, the first big dance of the year was given to the college by the class of twenty-eight. Owing to failure to find a suitable place for the affair in Pasadena, the Deans consented to let it be held out of town and the Hotel Alexandria in Los Angeles was finally selected as the scene of the festivities.

With the blessed feeling of relief that always attends the close of the term examinations and with the holiday spirit already in the air, the student body entered whole-heartedly into the occasion and previous attendance records were put to shame.

An imposing reception line greeted the guests and included the patrons and patronesses of the dance, Dr. and Mrs. Robert A. Millikan, Dean and Mrs. Frederic W. Hinrichs, Dean John McArthur, Dr. Arthur A. Noyes and Prof. and Mrs. Harry Van Buskirk, besides many other members of the faculty and their wives.

The ballroom was artistically decorated with flowers and streamers and before the evening ended all manner of favors were dispersed among the dancers. Fully three hundred couples danced away the fleeting hours to strains of delightful music and it was only when the orchestra struck up "Home Sweet Home" that the happy throng consented to disband. Thus passed into history another of Tech's enjoyable social events.

THE HOT RIVET

AFTER five successful years, the Hot Rivet has attained to nearly the dignity of a tradition at Tech, and each year the appearance of the scarlet "razz" sheet is looked forward to with great interest.

Edited and published by the new members of the Press Club as part of their initiation, this product of red hot journalism is the one big opportunity given for correcting, or attempting to correct, the faults of students and faculty alike by merciless publicity. Standing for "public censorship of public nuisances," it was undoubtedly the means of effecting several much needed reforms about the campus, not the least of which was the improvement of service in the bookstore.



THEM AS WAS RESPONSIBLE

A. S. C. E. CABIN PARTY

The student chapter of the A. S. C. E. took advantage of the week-end January 17, to inspect several dam sites and to enjoy a cabin party in the San Gabriel Canyon. The outing began on Friday afternoon when fourteen of the men drove to the Y. M. C. A. cabin about three miles from the lower dam site. The evening was spent around the large open fireplace. In the morning the party was met by representatives of the Pasadena Water Department who showed a number of maps and plans to the group and explained the method of locating a dam site that would meet their requirements. The party then proceeded to inspect the various sites, climbing over the side-hills, entering tunnels and examining the diamond drill in operation. In all, four locations were visited, and the party all felt that they had had an enjoyable week-end.

VARSITY CLUB DANCE

On the evening of January 24, about one hundred and fifty couples gathered for the annual Varsity Club Dance upon the spacious floors of the Hotel Vista del Arroyo and danced to the entrancing strains of Frank Weigand's orchestra.

The setting of the dance was very unique. If one tired of the formal type of floor decorated with pink and red carnations, one needs must step but a few feet away to the darkened, romantic atmosphere of a Spanish patio ballroom and enjoy himself in a different setting.

For the first time in the memory of the oldest Tech collegians was there enough floor space for one to "strut his stuff," and enough delicious punch to satisfy the most violent thirst—and most of all such delightful music. Surely, the Varsity Club dance was the best appointed dance of the year in every way.

The Varsity Club with the proceeds from this dance created a fund to be known as the "Injured Players Fund," whereby men who are injured while out for the various Varsity and Frosh teams will receive material assistance in caring for bills arising from medical attention.

BROAD OAKS DORM-TECH DORM DANCES

A joint Broad Oaks Dormitory-Tech Dormitory dance was held in the living room of the campus dormitory on January 30. The dance was featured by several most unique numbers including a progress dance (geometrical progression, r equals 2), and a balloon dance. In the latter each one of the young ladies had a balloon tied to one ankle and endeavored to dance without permitting it to be broken. Two terpsichorean artists from the Tech dormitory were prevailed upon to show their stuff in an exhibition dance. Tango, trick turns and flea-hopping in three dimensions called forth several encores.

Another Inter-Dorm affair was held in the Board Oaks Dormitory on April 17. About thirty Tech Dormenians journeyed forth to enjoy a very delightful evening dancing with the fair maidens of Broad Oaks.

OXY GIRLS' GLEE CLUB

WHAT seems to be destined to become an annual event was the appearance of the Occidental Girls' Glee Club before the student body assembly on Friday, February 20.

Because of the importance of obtaining a front row seat, many professors were influenced to dismiss their classes earlier than usual. After a wild scramble for the best seats the students listened impatiently to the recitation on student body affairs by the A. S. B. president, and when he was finally driven off the stage, the front seats moved forward several feet and the curtain lifted.

A very pleasing program was given by the sweet young co-eds from Oxy, and included "The Dirty Engineers," which drew much laughter from the audience. High powered military field glasses and opera glasses were in great demand and many interesting expressions were seen clearer when these came into action. It is hoped that the visit of the Oxy Girls' Glee Club may become an annual or even semi-annual one.



THE ENTERTAINERS

PI KAPPA DELTA DANCE

The annual dance of the Tech chapter of Pi Kappa Delta, national forensic society, was held in Culbertson Hall on February 14.

To the entrancing strains of an excellent orchestra, about sixty couples danced through a most enjoyable evening. It being Valentine's day, the St. Valentine idea was carried out in the punch, decorations and programs. The latter were very unique, being heart shaped.

TECH NIGHT

THE annual "Tech Nite" at the Raymond on February 25, surpassed all previous Tech Nites and uncovered a hotbed of dormant talent (?) possessed by our Engineers.

The first event was syncopation a la jazz to the nth presented by Fanchon and Rube Wolff. Rube seemed to know the weak points of our prominent students and he didn't hesitate to advertise them. This was followed by 300 pounds of jokesmith who took up the panning of our "foremost" where Rube left off and carried it on until the roars of laughter threatened to shake the plaster off the walls. He was followed by a whistler who could also shake a mean triple action ankle.

Of course this was all preparatory to the main event of the evening—the chorus from Cal Tech—which tripped gaily upon the scene with all the grace and abandon of young elephants. To describe them adequately would require



EXCERPTS FROM THE CHORUS

a book, for Al Newton's imagination had run riot on the costumes. When one saw that curls, those cioffure, them crowning glory, one had visions of bob-tailed horses galloping away from Al's shears. The pedal extremities of the young chorines were wrapped up in that special variety of violin cases championed by the army. Between the crowning glory and the dancing slippers were two pieces of ribbon wrapped counter clockwise around each chorine where they would do the most good. The movements were made at the command of an army whistle offstage. It is reported that Mack Sennett and Flo Ziegfield engaged in a fist fight in the lobby immediately after this event to see which of them should make the offer to Al Newton for his chorus.

"Little Bobby" Stein was on hand with his Scandinavian pipe organ on which he rendered several numbers as only he can. Between acts the glee club quar-

The Big Ho

tet sang "Just Awearying for You" and "Close Harmony" without any casualties. A newsreel of Prof. Merrill's pet glider "Tal" was an interesting part of the picture program which concluded with Constance Talmadge in "Learning to Love"—a feature of educational interest to rugged engineers.

The program ended with dancing on the stage in which a large share of the audience participated. The music was furnished by the Blue Velvet Syncopators.

A Tech Nite of great success, long to be remembered.

SOPHOMORE DANCE, MARCH 7

Saturday, March 7, was the date and nine-thirty was the time, when one of the best dances of the year was given in the ballroom of the Friday Morning Club by the Sophomore Class.

The programs for the dance were very unique, being long and narrow with a beaver and the class numeral embossed upon the red leather cover. Witty quotations within the program called for much comment by the fair "co-eds" present. The music, furnished by Ray West's Alexandria Orchestra, and the punch were both delightful in the extreme. The hall was magnificent in its own decorations and lent a distinctive social atmosphere to the affair.

Knowing the reputation of the class of twenty-seven in social affairs, everyone from the college who could possibly come, attended. Even the weather was made to order by this original class and sitting out dances in the cool, shadowy balconies became quite a pastime.

INTERFRAT DANCE

The Huntington Hotel ballroom was taken over on the evening of March 21, by the four Tech social fraternities, Pi Alpha Tau, the Gnome Club, the Pharos and the Sigmas who acted as hosts at an inter-fraternity ball to a number of invited guests.

A novelty in the decorations was a bunch of gorgeous red tulips which reposed in a basket of ice at one end of the hall. Due to the engineering ability of the decorators, the basket did not melt or spill over during the evening but remained in perfect condition until after midnight.

Favors of small vanity cases engraved with the crests of the four fraternities were presented to the ladies and leather card cases to the men. The music for the dancing was furnished by Ray West's Alexandria Orchestra and proved to be of the variety which kept one's feet moving at all times.

Occasional strolls in the beautiful gardens of the Huntington and visits to the high tower to view the surrounding country lent enchantment to the evening and helped make it one which is never to be forgotten by those who attended.

EXHIBIT DAY

It has become a custom at Tech to set aside two days each year on which the faculty and students hold open house to any and all who wish to visit the Institution and be shown something of its work and equipment.

This year, the Annual Exhibit opened at noon on Friday, April third, and it was not long before the campus became a scene of colorful activity, as the usually masculine landscape was enlivened by the presence of many of the fair sex, whose interest in the college was in many cases quite personal.

The seniors had charge of registering the visitors at the main door of Throop Hall, while the sophomores filled their time honored position as guides, showing the expectant groups of visitors through the various departments, beginning with those in Throop Hall and proceeding from thence to the various other buildings on the campus. Special demonstrations in each department were designed to show the strangers something of the work that is being carried on at Tech and the facilities and apparatus with which the Institute is so well equipped.

The Gates Chemistry Laboratory provided a large number of interesting experiments and synthetic punch was served to all who had the courage to partake. The research exhibits in the Norman Bridge Laboratory of Physics also attracted a great deal of interest and the huge million volt transformer in the High Voltage Laboratory furnished a superior brand of electrical fireworks for the benefit of the visitors.

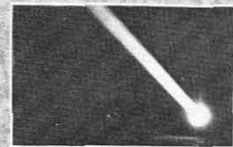
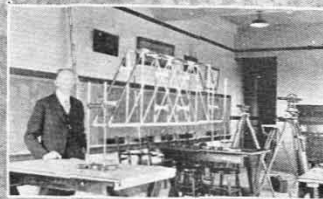
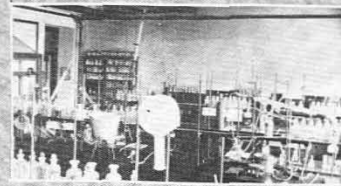
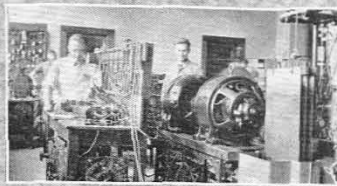
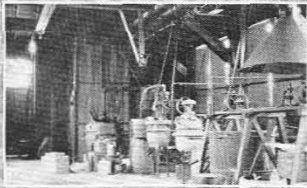
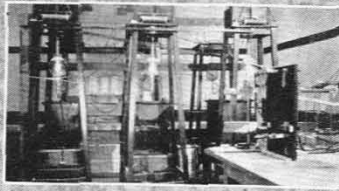
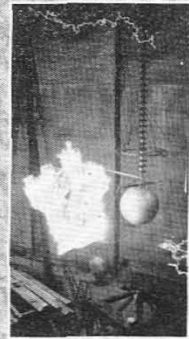
The Exhibit continued throughout Friday afternoon and late into the evening and, in spite of threatening skies and frequent downpours of rain, the guides were kept busy continuously. A feature of the afternoon's program was a parade by the R. O. T. C. battalion, which showed the visitors the character of the work being done by the Military Department at the Institution.

At six-thirty Friday evening, the alumni of Caltech gathered in the Dugout for their annual Exhibit Day Banquet and many familiar faces were in evidence as the old grads came back to greet each other again and talk over old times together.

A lecture on X-rays, which was given by Professor Richtmyer, national president of Sigma Xi, on Friday evening, was attended by a considerable number of the visitors and at eight-fifteen, a large audience filled Culbertson Hall to enjoy a delightful program by the Glee Club and an address by Capt. Paul Perigord on "The California Institute of Technology."

The Exhibit opened again on Saturday morning and reached its climax on Saturday afternoon in a baseball game at Tournament Park between Caltech and the Santa Barbara Teacher's College.

Thus ended another successful Exhibit Day at Tech, and one which served to again impress the people of Southern California with the important place which the California Institute of Technology is filling in the Southland.



FACULTY-STUDENT MIXER

For the first time since the days of the great oak tree when students and faculty members ate, studied and gossiped together under its shade was a real Faculty-Student Mixer held. This treat occurred on Friday evening, April 10, in the Dugout.

The evening was taken up by music, speeches, wrestling and boxing matches. A spirit of friendliness pervaded the atmosphere and all mythical hatchets between faculty and student were buried deeply. The "Y" helped to put this good time across and the large number that attended were indebted to it for the pleasant evening. Bob Evans and his orchestra furnished the music for the occasion.



THE PI KAPPA DELTA PROVINCIAL CONVENTION

The California Gamma Chapter of Pi Kappa Delta, located at Caltech, was privileged to be the first host of a provincial convention of the chapters located in California. On Saturday, April 11, representatives from Southern Branch, Occidental College, Redlands University and the College of the Pacific joined with the local members in staging a very successful get-together in Culbertson Hall.

As forensic accomplishments are the foundation stones upon which the national fraternity is founded a regular carnival of debates, oratorical and extemporaneous speaking contests are usually the order of the day when a group of the Pi Kappa Deltians get together and the local convention was thoroughly characteristic in this respect. The morning and afternoon sessions were given over to forensic encounters of varying natures while the business meeting proper was held in the evening, following a very enjoyable banquet at Shuster's Dining Room.

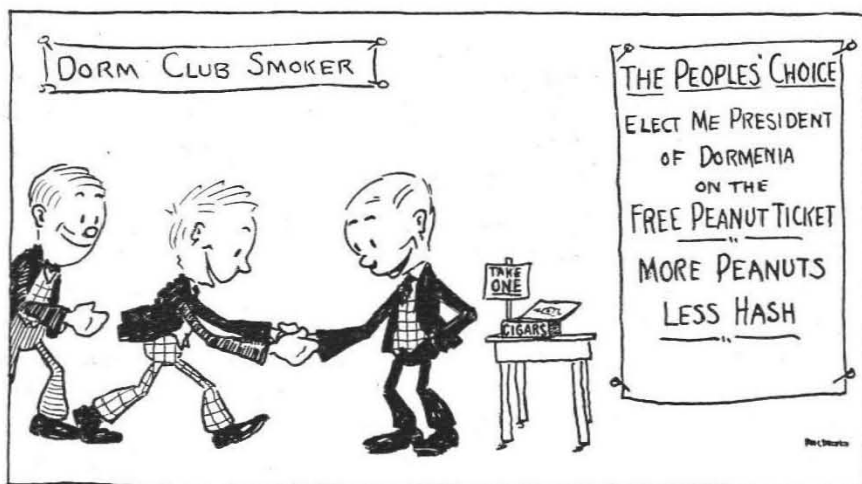
One of the most enjoyable features of the convention from the standpoint of the hosts was the fact that Pi Kappa Delta is a co-educational organization and that a large number of charming delegates from the various chapters were on hand to make losing debates a pleasure.

GLEE CLUB AND BAND CONCERT

On the evening of April 24, the combined forces of the Glee Club and Band gave a concert in the High School Auditorium. Besides the Tech organizations, several other attractions were presented. Luboviski, a master violinist and rated second only to Fritz Kriesler, played several compositions: "Benjamin, the Fire Man," presented his spectacular Fire Dance, Sweeting ('28), mystified the audience with his bag of tricks, and McFeeters played several piano selections.

All who attended the concert and heard Luboviski were indeed charmed with the quality of his music. Luboviski is one of the younger artists who are doing so much to enrich the present day field of music and the Associated Student Body was exceeding fortunate in securing his services for the evening.

The Glee Club and Band were both in top form and made the best presentations in their history. Many new numbers given by each organization were enjoyed by all.



DORMITORY SMOKER

Late in the year the Dormitory Club gave a very good time to the members of the student body and to the faculty in the way of a smoker. Since nominations for student body officers had just been made, interest was heightened by the attempts of candidates to increase their popularity by handing out free (Dorm) cigars to voters. The usual superior brand of Dormitory punch was served with cookies as refreshments. Speeches were made by leading members of the student body and faculty.

"Y" SKATING PARTY

On one morning of the third term many Tech men reported to their classes wearing huge pillows behind. Though this style was somewhat bewildering to visitors it was easily explained in that the Y. M. C. A. had held a skating party the night before at the Alhambra rink for members of the student body.

No casualties occurred during the evening because the skaters soon learned to light naturally, and light they did when the components of the forces acting upon them did not equal zero. Freshmen obtained advance lessons in mechanics when they discovered what the product of MV could do to one's social status when their feet became tangled.

Punch to quench the thirsts of the skaters and otherwise was served by the "Y." At midnight the members of the party adjourned to hear their bed-time stories.

EMANCIPATION DAY

On the day of the last week of the college year the Freshmen of Twenty-eight went through the ceremony delivering them from the burden of wearing the green. This day is looked forward to by the frosh all year, for at this time all distinguishing marks of inferiority are discarded and the right of liberty and equality with other men of the college assumed.

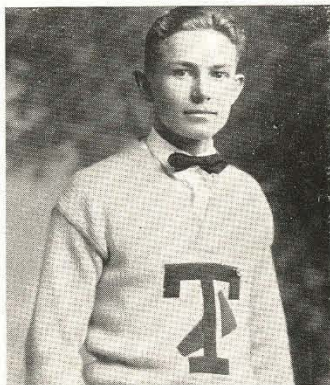
A huge fire was built in the quad and as the freshmen marched by in file, green visors and buttons from the "beanies" were thrown upon it with loud cheers. Then in a body all rules laid down by tradition, restricting the class, were broken. In through the front door of Throop Hall and up the north stairs they marched. Though near fights were precipitated, there were no general riots as marked the first Emancipation Day when the Class of Twenty-four established the tradition. After the demonstration was over, peace again descended upon Throop Hall.

DITCH DAY

That the lower classes might become accustomed to the absence of a restraining hand, the lordly Seniors slipped away one bright morning to enjoy a well-earned vacation at a nearby resort (name upon request).

Those who entered Throop Hall that morning noticed an elaborate proclamation in front of the student body office, telling the lower classes that by virtue of their superior knowledge the members of the Senior class had a right to declare a holiday for their sole use with a "yea" or "nay" from no one. Thus was the traditional Ditch Day carried out.

YELL LEADERS



COLEMAN

Motors-Bridges-Bevel-Gears,
C-I-T-Engineers (Slow).
Motors-Bridges-Bevel-Gears,
C-I-T-Engineers (Faster).
Motors-Bridges-Bevel-Gears,
C-I-T-Engineers.
(Whistle) Boom, Ah, Tech. Rah.

C-I-T Rah, Rah,
C-I-T Rah, Rah,
Hoo-rah, Hoo-rah,
California Tech, Rah.

Rah—Rah.
Who—Rah,
California Tech, Rah.

California Tech, California Tech;
C*-A*-L*-I*-F*-O*-R*-N*-I*-A
Tech, Tech, Tech.

E-N-G-I-N-E-E-R-S (Slow).
Chug, Chug, Chug, Chug.
E-N-G-I-N-E-E-R-S (Faster).
Put, Put, Put, Put.
E-N-G-I-N-E-E-R-S
Bang.

Get 'em Beavers,
Get 'em Beavers,
Tear 'em, Scratch 'em, Mash 'em, Bite 'em.
Go Get 'em Beavers.



WINGFIELD

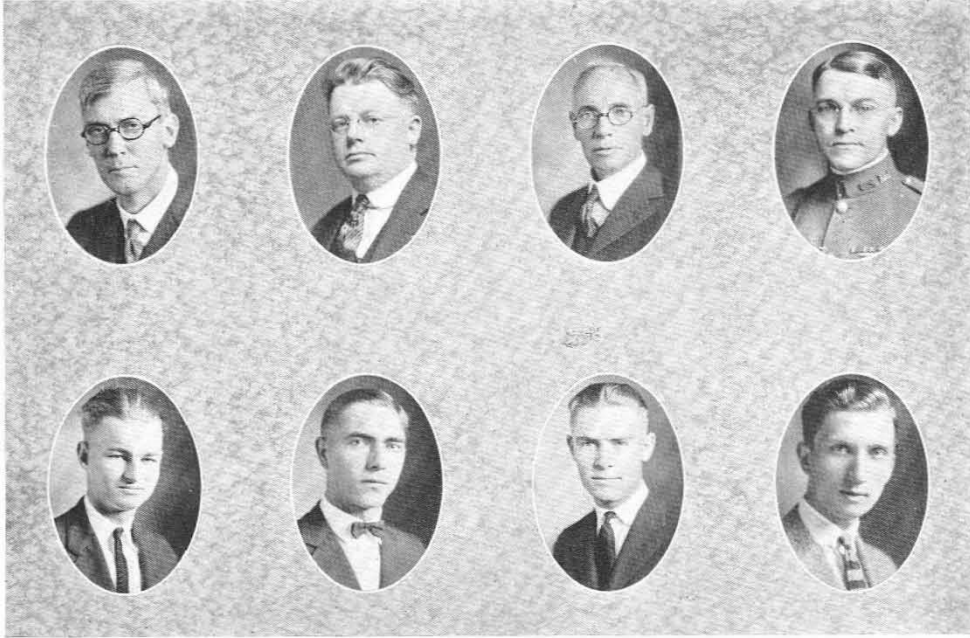
COLEMAN

GUNNING



ATHLETICS

ATHLETIC COUNCIL



HINRICHS
HEILBRON

SORENSEN
SCHLEGEL

CLAPP
GRAHAM

ADAMS
BRUNNER

AT the very foundation of all Tech athletics is found the athletic council. This council, a group of men from the faculty and student body, formulates and executes all the athletic policies of the Institute.

Members of this very important council are Coach Stanton, Prof. Sorensen, Prof. Clapp, Dean Hinrichs, the A. S. B. president, the A. S. B. athletic manager, a specially appointed member of the student body, and Coach Musselman acting as secretary. Prof. Sorensen in his role of chairman plays a great part in the policy shaping.

All matters of athletic interest are first thrashed out by the council before an official stamp of approval or vote is given. When the stamp is given their verdict is turned over to Doctor Millikan for the final Institute approval. This last step is, however, of no great hindrance since the council's verdict has in all cases stood. The council also makes up all the schedules of games for the Engineer teams except those of conference character and sends representatives to the regular conference meetings to take care of the conference standing of Tech.

As athletics forge to the front at Tech the council will become even more prominent than ever. Tech men, however, are feeling little fear that the privileges of the council will be abused since it has at all times shown itself a real representative body.



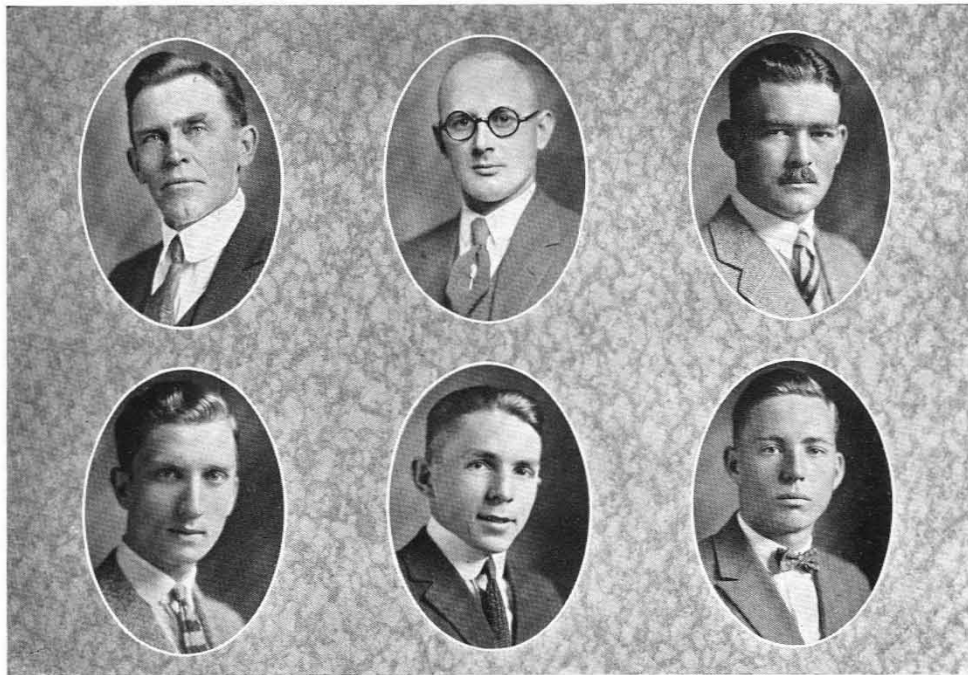
COACH STANTON

This year was Coach Stanton's fourth one at Caltech. Since he first came here there has been a marked increase in athletic interest at the college. He is a man for whom the members of his teams will fight to the last. By instilling his wonderful personality into the men in his personal contacts with them on the field, he has built up teams at Tech in the last four years far superior to any the college ever had before.

Fox Stanton's specialties are football and track. In three years he developed a grid team that placed at the head of the conference. This year the final tally was not so favorable, but with well towards a hundred men out for spring practice, he will develop a team that will be hard to conquer next year. His system of playing and his ability to develop raw men are hardly equaled in the west.

His theory in track is that athletes are developed, not born. He has shown the proof of this in many instances, notably in that of Glenn Graham, who started vaulting for the first time when a frosh here. It is through Stanton's work that Tech now holds three conference records.

There is not a true Tech man who does not sincerely respect Coach Stanton. Every year he spends at Tech will find him more popular and the possessor of as many new friends as there are new men at the college.



STANTON
BRUNNER

MUSSELMAN
CUNNINGHAM

EVANS
MATSON

ATHLETIC STAFF

Of course the most prominent man on the athletic staff is Coach Stanton. He has been becoming more and more popular by demonstrating that Tech men can become athletes even though they spend more than the usual amount of time for study. His work in football and track has given Tech a name in Southern California athletics which she never enjoyed before.

The other two major sports are coached by Graduate Manager Musselman. He has been gradually developing a basketball team that will soon place near the top of the percentage column. The baseball teams he has been turning out have always run good races for first conference honors.

Bernie Evans, captain of the 1923 varsity football squad at Tech, returned this year to instruct the frosh in gridiron tactics. He has helped to bring out some material that will be extremely useful to the varsity in the future.

Mike Brunner was elected captain of this year's basketball squad, but due to an injured hand, he was unable to play. He gave his energy and ability towards teaching the frosh the art of shooting baskets.

Lieutenant Gullatt was chosen to coach the frosh baseball men. His experience makes him a valuable man for moulding the frosh aspirants into varsity material.

Harry Cunningham has been teaching the men the rough arts of boxing and wrestling. Joe Matson's ability as a merman qualified him to instruct the swimming squad.

THE ATHLETIC YEAR

Athletes do not come to Tech; they have to be made after they get there. For that reason it is unusual for a Beaver team to lead the other conference colleges. However, the men are out to chalk up as many wins as possible, and to play a clean, hard-fought game whether it is won or lost.

This year's freshman class was unusual in that it contained a large number of men capable of entering into sports who were really interested in doing so. Comparatively few of them had previous experience, but that is not always as important as the willingness to get into the game. When "Fox" Stanton gets his hold on the majority of them, he will turn them into real athletes.

By giving a limited amount of scholastic credit to upperclassmen for physical education, a much greater number of them turned out for the sports in season than would otherwise have been the case. If the whole college is interested in sports, the teams will be better each year, for they will be picked from a larger number of men, and they will work harder knowing that their work is appreciated.

Tech did not show up so well in football this year as had been expected, but the majority of the games lost were by small margins. Tech made 30 points against the other conference colleges while but 34 were scored against her. The Whittier and Oxy games were lost by 7-6 scores, the Redlands game by a 13-12 tally, while Pomona managed to take a 7-0 game. The lone win in the season was a 6-0 one over the Branch. With the interest that is being shown in Spring practice, Tech should have one of the strongest teams in the conference soon after the season opens next Fall.

In basketball a full schedule was not played. The team lost to Pomona and Oxy but managed to win twice from Redlands. Several sophomores showed that they were quite capable of holding varsity berths. The frosh turnout should develop into varsity material in a short time.

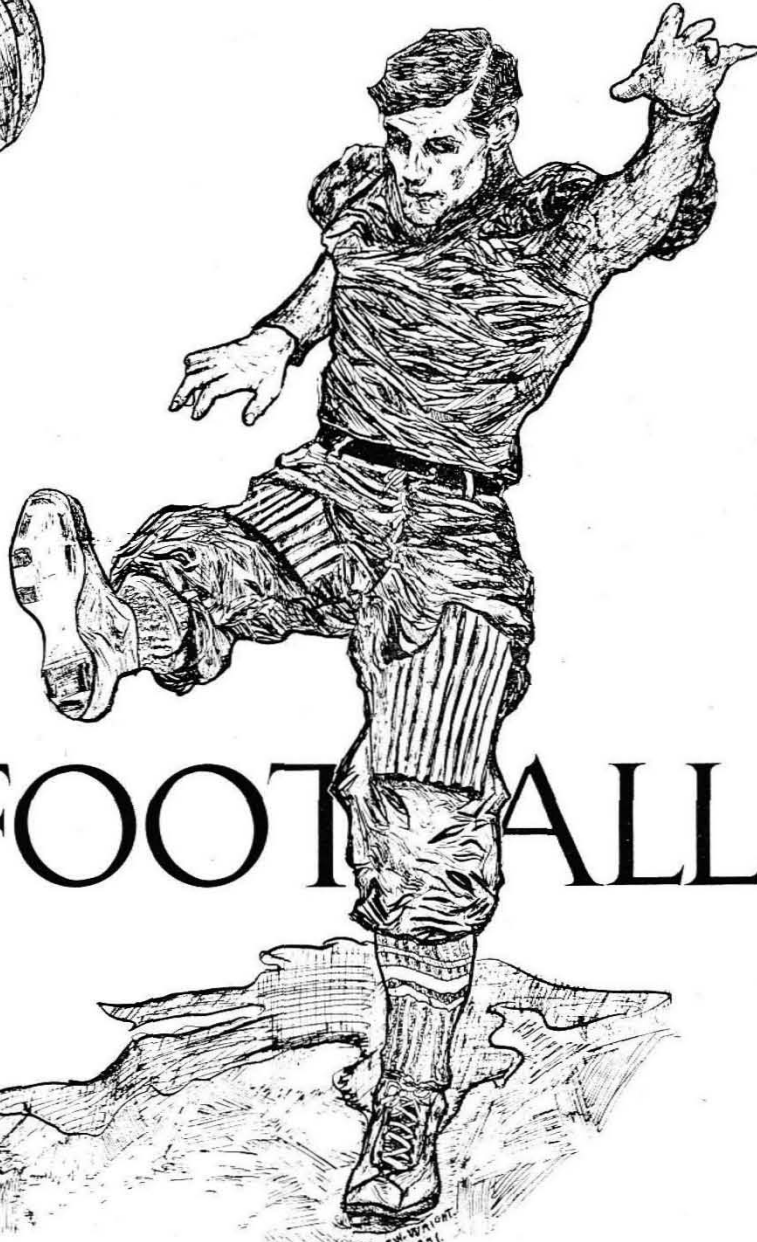
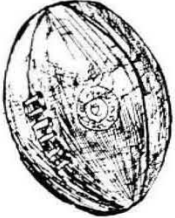
Pomona and Oxy each handed Tech a defeat in track, but a tie with the Branch and a decisive victory over Redlands left Tech in the center position. The relay team did very well, taking second place at the conference meet. Graham raised the conference pole vault record to 12 feet 8 inches. The frosh led most of the opponents in the dual meets but were sadly worsted at the frosh conference meet.

The tennis team defeated Oxy but fell to the Branch, Pomona and Redlands. The usual interest in swimming was not displayed, several lettermen being unable to be out.

Baseball started off with a ninth inning win from Pomona and a decisive victory over Redlands. The last game played before this was written was with Oxy. Although the score was decidedly unfavorable, the men left the field with the determination to place second in the conference this season.

With the large turnouts all this year, and a large number of experienced men back, Tech will put in strong bids for conference honors next year.

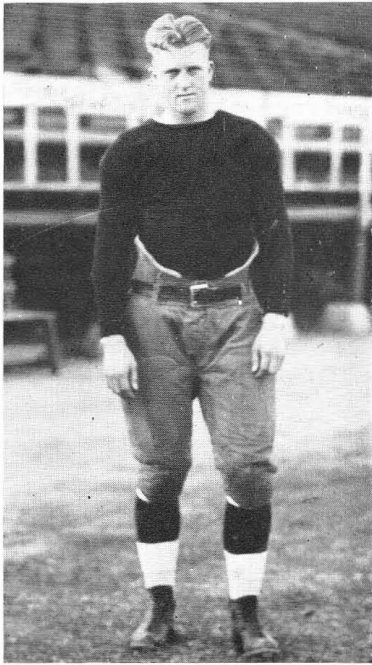
The T Big G



FOOTBALL



Copyright 1921



RAYMOND ALDERMAN

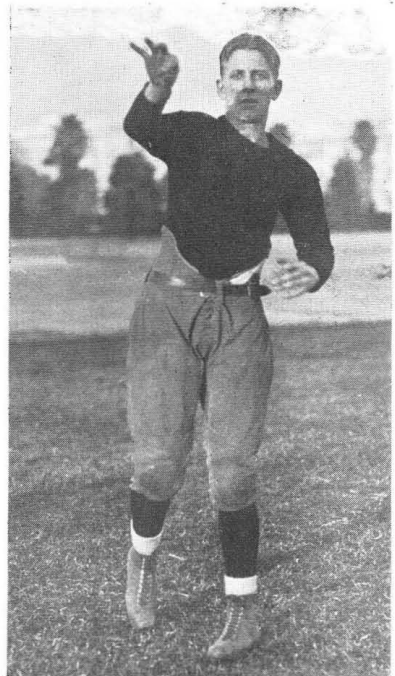
(Captain)

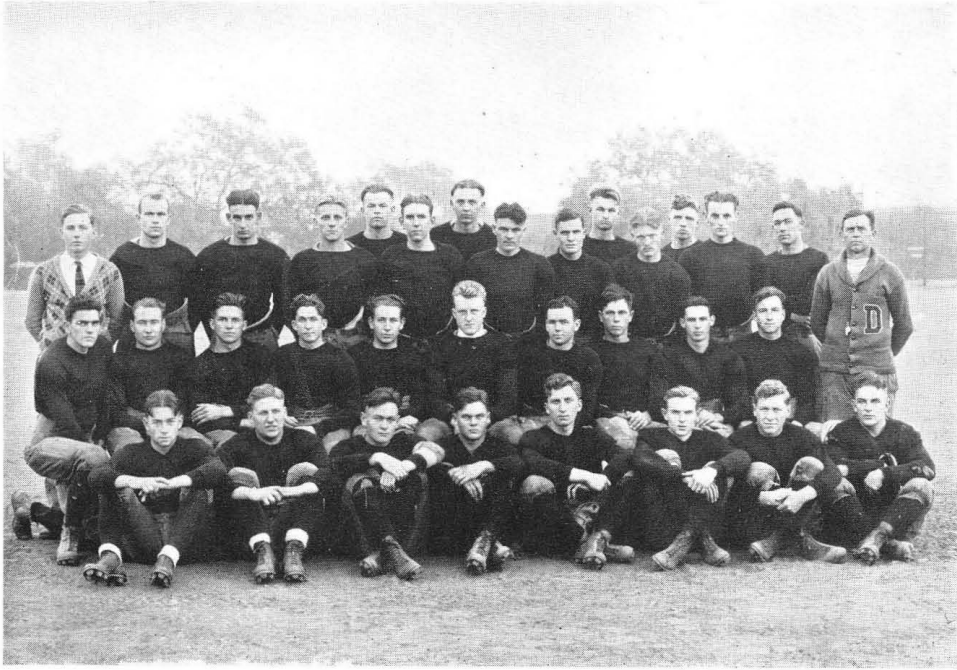
Captain "Horsey" Alderman was Tech's most consistent ground gainer of the year. He could always be depended upon for first downs when a yard or two was needed. Playing the full-back position, he was also an artist at backing up the line of scrimmage on the defense, and was often the man who stopped the opposing back-field man carrying the ball. His three years on the Varsity were well climaxed this year.

JACK BAKER

(Captain Elect)

"Jack" was captain of the Freshman team when he was a Freshman, and now he has earned this honor on next year's Varsity. His running, line plunging and passing have been features of the games for two years. He played right half-back this year but will probably fill the fullback position next year. Tech expects a lot from Jack and his team next year.





THE VARSITY SQUAD

NOW that the year is over who, among you, will deny that it is pleasant to look back over Tech's football year. There is no sport that is loved as much, played as much or has as large a following as football. Football is truly a maker of men. In its hard fought, keen, sharp competitions it develops in a man that which is an essential to his character. His brain becomes quick, he sees what has to be done and he does it with a vigor and determination that stops at no obstacle. These qualities are needed in every successful man and if they are learned in sports they will unconsciously be applied, by those who possess them, in everyday affairs. So it is with no misgivings that the scores of the season of 1924 are brought to light for no matter how the result was in figures it is known that our men got something out of the games that will stand them in good stead for the rest of their days.

Once more our hats are off to Coach Stanton. If he did nothing else he developed a team that was willing and eager to fight to the very last for Tech and her honor. But he did more than that. He developed and put on the field a team that deserves more credit than it ever got. One has no right to call a team poor because it loses all but one conference game. Every small item must be considered and weighed. This has been done and Tech has not been found wanting, save one department. Let's start with the offense and go down the list. Coach Stanton developed a team that had real power in its drives.

This was demonstrated time and again. When a yard was needed for first down or a touchdown it was made. That was all the rooters saw but, behind that drive was the unconquerable spirit, "We WILL make it," the spirit that is necessary to a football team and also, the spirit which every successful man must have. Our defense was something that any Tech man can feel proud of. Many times the boys held for two or three downs on our one yard line when to have let a man through would have meant utter defeat. That is the kind of determination which is needed not only by a football team but by every man who expects to succeed in this world. Caltech had a passing system which was on a par with any team in the conference and due to the modern idea of scouting Coach Stanton was in a position to originate a defense against other passes which seldom failed to work. So, taken as a whole Caltech was as good as any team she met in the latter part of the season except for the one department which cost us the loss of our games to other conference teams. That branch referred to is the drop kicking. Tech possessed no one who could be depended upon to place the ball between the goal posts when the one point meant a tie game.

The lettermen of this year's varsity totaled 13. They included—Captain Alderman, Captain-elect Baker, Foster, Seymour, Brunner, Larabee, Johnson, Stanton, Newcomb, Heilbron, Kinsey, Moore and Nickell.

U. S. C. GAME

With but a little over a week's practice the Beavers opened their football season by going up against the much talked of U. S. C. eleven. After the first three minutes of play the outcome of the game was never in doubt. Outweighed from twenty to thirty pounds to the man the Tech forward line never gave up hope that they might, before the game ended, stop the Trojan charge. They battled hard, but in vain. The Trojan charge was not to be denied. When it is said that the team did not work very well together it must be remembered that they had only practiced for a little over a week. No apology is made for the score of 78-6 for without a doubt the most capable team won. Nevertheless Tech showed up well in two departments of the game. The first was the forward passing which was our biggest ground gainer. The combination of Foster and Baker executed some passing puzzles that the Trojan defense failed to stop. The second field in which the Beavers showed up well was in following the ball. As well as gathering up some of U. S. C.'s fumbles it was this persistent dogging of the ball that resulted in Tech's lone score. During the fourth quarter the Trojans let loose of the ball long enough for Morrison to travel seventy yards in exchange for six points.

This game did not bring to light the relative value of either team in their respective conferences as there was too little competition for the Trojans combined with a very short period of practice.

	Score by Quarters				
	1	2	3	4	Total
Tech	0	0	0	6	6
U. S. C.	20	18	26	14	78

one hundred six

U. S. S. CALIFORNIA GAME

The result of the U. S. S. California game, namely 13-0 in favor of Tech, was very gratifying. This game was by far a better test of the Beaver's strength than the preceding game played with U. S. C. It will be remembered that last year the navy men had a good team and beat Tech by 7-0. The Engineers had a good team at that time also, but it was weakened by the absence of Fred Groat and Holly Moyses who were out with minor injuries.

This year it was very much the same way. Layton Stanton and Jack Baker were out of the game with minor injuries. However, "Stew" Johnson and Sellers very ably stepped into the other boys' shoes.

Both teams made yardage, but were not able to do it consistently. Tech's one big moment came in the second quarter. The Navy fumbled and gave the Beavers the ball on the Navy's 30 yard line. Some pretty running and a few line bucks by Sellers and Johnson gave Tech her first score. Sellers converted.



The only other score of the game came shortly after the kick-off following Tech's goal. The Beavers intercepted a pass and followed it up with some more good open field running. As a result Tech made her second and last score of the day. Failing to convert the final score stood 13-0.

Although the gobs were never really dangerous they were within striking distance once, but did not make the best of it for they were penalized fifteen yards for holding and could not regain their loss.

	Score by Quarters				
	1	2	3	4	Total
U. S. S. Cal.	0	0	0	0	0
Tech	0	13	0	0	13

WHITTIER GAME

In a game that was full of thrills, containing spectacular runs, playing that was good and playing that was no good, Whittier triumphed over the Engineers by one point; score, 7-6

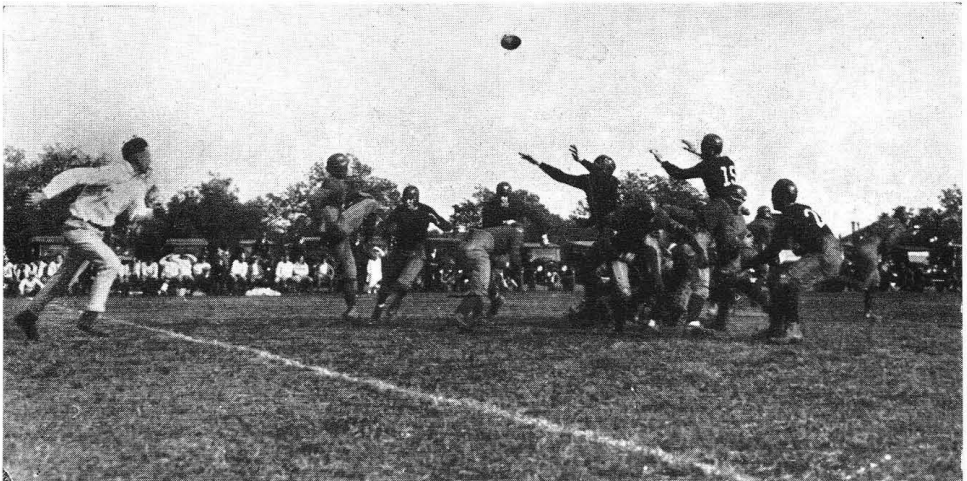
The first half saw the Beavers jump into the lead by six points due to the consistent plugging of eleven engineers and the pretty playing of Baker and

one hundred seven

Stanton. A sixty yard run by Stanton followed by a fifteen yard gain by Baker gave Tech the touchdown. If the touchdown had be converted the game would have been a different story. All through the first half Tech held the Poets, not easily, but efficiently.

The second half witnessed the gradual wearing down of the lighter team before a heavy battering ram. Once Tech held on the one yard line for three downs and kicked out of immediate danger, but the ball was run back too far before Whittier was stopped. This time when the Poets reached the one yard line they kept going and scored their only touchdown. The score shows that they converted. Time was short and Tech tried mightly to overcome the one point lead, but to no avail. The heavier team had won. The game was a little too hard for Tech as is shown by the loss of one man for the eaitre season through injuries and two others for over a week.

	Score by Quarters				
Whittier	0	0	0	7	7
Tech	6	0	0	0	6

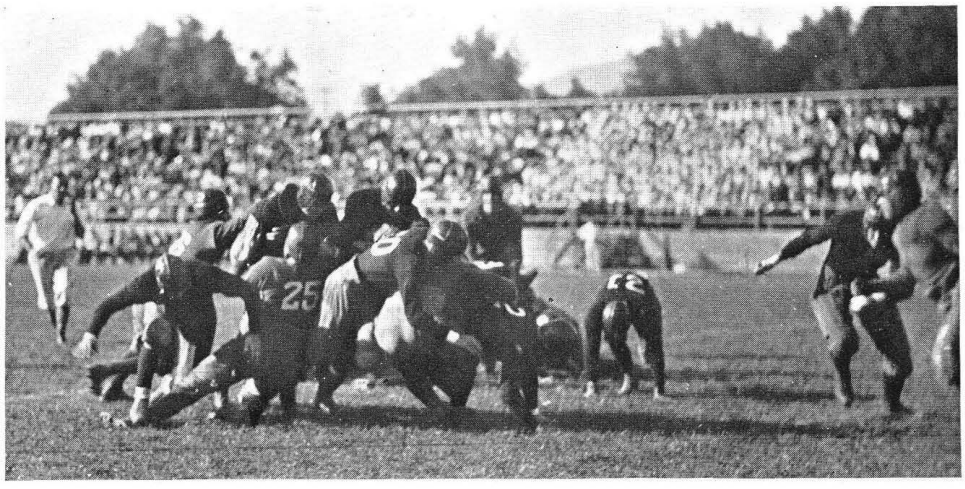


POMONA GAME

Pomona, in Tech's second conference game of the season, handed the Beavers a 7-0 defeat in one of the hardest fought, cleanest games of the season. Pomona had the slightly better team, so Pomona won.

The first half got away to a poor start with both teams nervous and fumbling badly. The play, till near the end of the half, see-sawed back and forth in the middle of the field. Neither team made downs consistently, and punting was the order of the day. Late in the first half a Pomona man intercepted a Tech pass which put the Sagehens on Tech's thirty-five yard line. In came Merritt from the side lines although a broken rib he had sustained was but partially healed. A pass, Clark to Merritt, put the ball on the Beavers five yard line when quite conveniently the half ended. The score still stood 0-0.

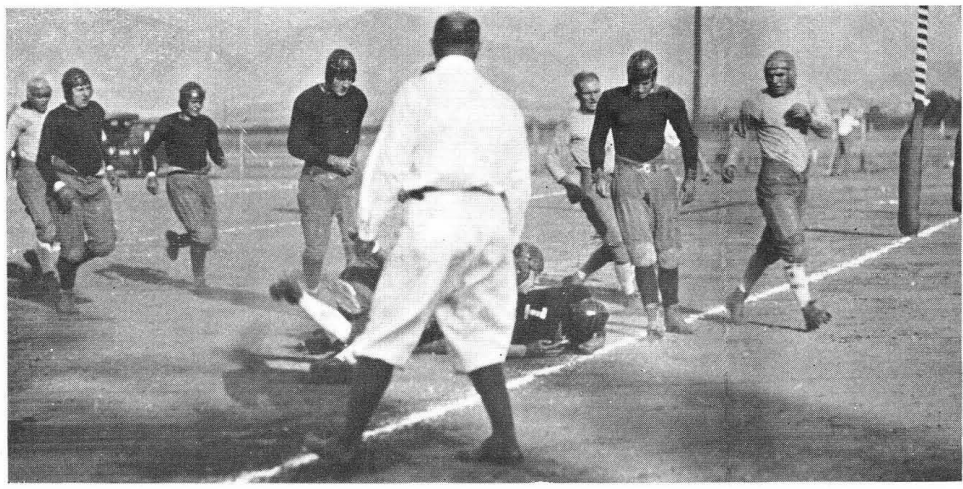
The second half was full of Tech fight and the passing combination of Clark-Merritt was held to a stand still. Not so her line bucks and end runs as it was only a matter of a little time before Tech's goal was crossed and Pomona had seven points.



REDLANDS GAME

One of the most unpleasant upsets in the football season was encountered when Redlands gave the Beavers a 13-12 beating. Blame it onto anything you like: over-confidence; too much concentration on Oxy and not enough on Redlands or the mysterious failure of our offensive plays to gain the ground they should have. Maybe it was because we had no drop kicker or possibly it was on account of the field. All are excuses but none are alibies because no alibies are being offered. Tech was beaten and no amount of explaining can change the situation.

Redlands converted her first touchdown but was not allowed to try for the extra point on her second goal as the referee took offense at one of the Redlands players. This tells the story of how Tech lost two out of three conference games by only one point.



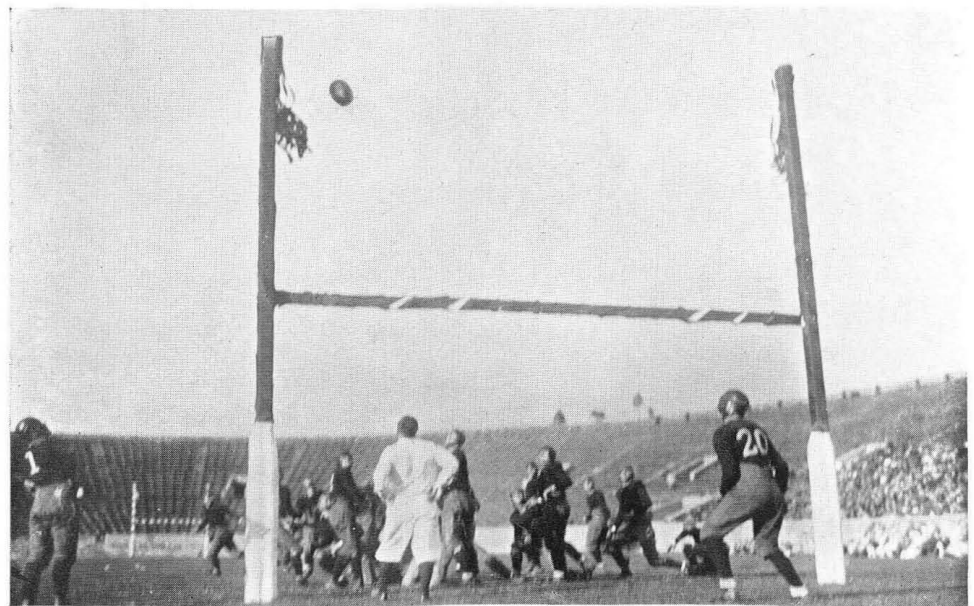
OXY GAME

As the sun dipped low in the western horizon Armistice Day it witnessed the final valiant but fruitless effort of the California Tech Beavers to overcome the one point lead of the Occidental Tigers which finally ended, 7-6.

The Beavers played well and lost the game thru no other cause than the lack of a drop kicker. This statement is true about all Tech's conference games so far exclusive of Pomona's win.

It was a delicious fact that ten minutes after the first whistle Oxy was on the short end of a 6-0 score. If the Beavers could have only held. These eleven fighting engineers have the satisfaction of knowing that Oxy was made to work for her lone tally and worked hard. Inasmuch as this was true Oxy earned her touchdown and full credit is given the Tigers for playing a fine hard game. Tech's lead was Occidental's incentive and they proved themselves big enough for the occasion when by converting their touchdown they added the point that won the game.

Twice the Tigers made a flashy offensive. The first netted them their one touchdown while the second offensive put them on Tech's three yard line with 4 tries to make a touchdown. Here Tech decided to show their power. They dug in and the cry was "They Shall Not Score" and their cry was true, for Oxy did not score. On the fourth down Oxy still had one yard to go. Five thousand rooters held their breaths while the Tiger quarter called off signals. Suddenly the ball sped to the Oxy back; then, fumble! Oxy recovered but she had lost her only chance to make the game a complete victory for it ended shortly after with the sun just disappearing from view and a shadow creeping up the score board which read Occidental 7—Cal-Tech 6.



THE KICK THAT WON FOR OXY



GRIZZLY GAME

In the game during which Captain Alderman took but little part and one which was full of thrills the Beavers broke into the win column by defeating the Branch by a lone touchdown, 6-0.

It seems to make no difference who the Beavers lose to, it is just impossible to let the Bears win. Apparently it goes against the grain and causes the Teddies much displeasure but their slogan this year was "Dam the Beavers". Quite appropriate, but it did not work. The Beavers are pretty good dam builders themselves and likewise particularly destructive to anything that stands in their way.

The Beavers had the edge all through the first half and it was in this period that the spirited efforts of Heilbron, Foster, Baker and Stanton netted the only touchdown of the game. The convert failed, as usual, and there were many in



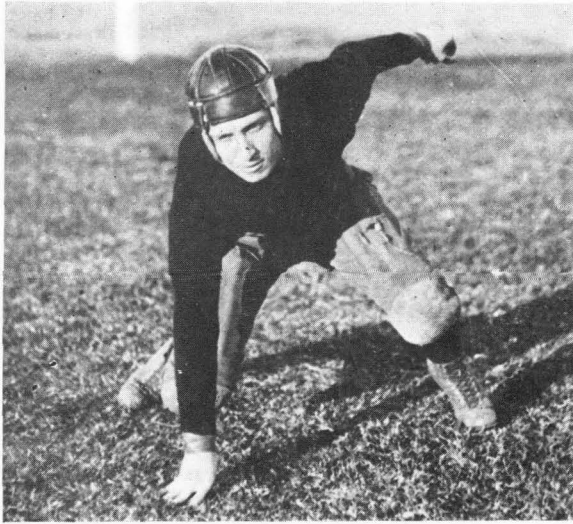
the rooting sections who wondered if this game would be a repetition of the Whittier and Oxy game in as much as the score was concerned. Tech backers were indeed becoming superstitious but they just couldn't credit the idea of a win by the Branch.

The high light of the second half was in the fourth quarter when the Bears twice drove Tech to the shadow of her goal posts. It was merely a repetition of what happened in the Oxy game but what a pretty sight it was. There is nothing so stirring or thrilling as to witness a team struggle and hold an opposing team in the shadow of their own goal posts. That is what Tech did. Not once but twice. Eight of the men who fought so gamely were giving their last little bit for the athletic reputation of their Alma Mater and it was a fitting climax that they should hold—and win.

LOYOLA GAME

Loyola pulled the surprise of the season when she held Tech to 21 points and gathered 13 herself.

It was not intended that the first string should play the whole game so most of the substitutes got a chance to show what they could do, and get some experience for next year. None of them fell down on the job which added much to Coach Stanton's pleasure.



MICHAEL BRUNNER

"Mike" successfully finished his third year at end this season. He was the lightest man on the team and yet was one of the best due to his over abundance of "Tech Fight." He was field captain in the Branch game and certainly kept up the team spirit. Tech is proud of Mike and his playing.

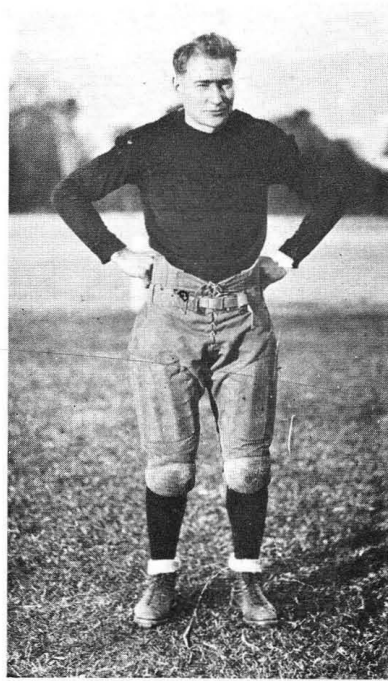
FRANK FOSTER

"Stupe" has played on the Varsity for three years. He filled the quarterback position this season in a commendable manner, his work on the defensive being especially noteworthy. He developed into a very good punter, his fifty and sixty yard kicks being consistent and giving Tech the advantage of many yards. His absence next year will certainly be felt.



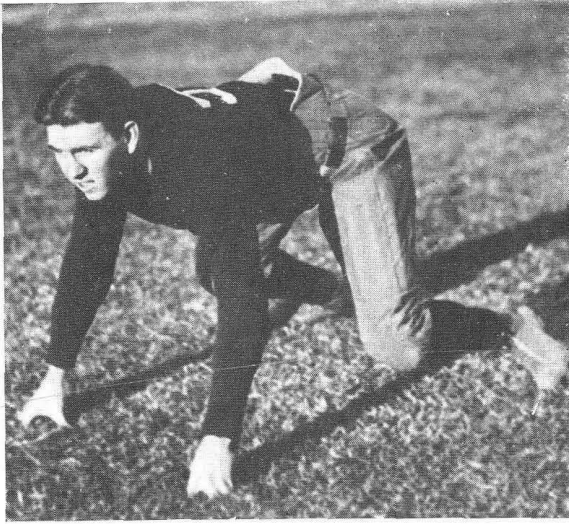
LEROY NEWCOMB

"Newkie" played a very good game at right end this season. He made his letter last year, too, being his first out for football. He was a fast and heady player, making his hundred and sixty pounds of fight a very valuable asset to the Varsity. As he graduates he will be greatly missed next year.



STUART SEYMOUR

"Stew" was shifted to tackle this year after playing two seasons of Varsity guard. He filled his new position with the same energy and fight that characterized his former playing at guard. He is big and powerful and certainly utilizes these endowments well. He played every minute of every conference game and will be greatly missed in next year's lineup.



SEYMOUR LARABEE

"Larry" played left guard and was the fastest man on the line. He was always the first man down the field under "Stupe's" punts, usually stopping the opponent's safety man in his tracks. His defensive playing kept many yards from being made over the central part of Tech's line. Next year his fight will be missed as he graduates with the Class of '25.

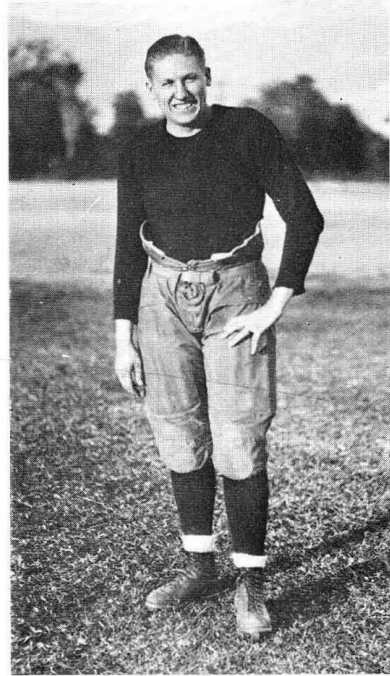
GEORGE MOORE

"George" played guard this year in a most commendable manner. He was a transfer last season and, being ineligible for the Varsity, spent the season on the Scrubs, but was rewarded this year and certainly earned his recognition. He has a super quantity of grit and spirit from which we expect great things on next year's team.



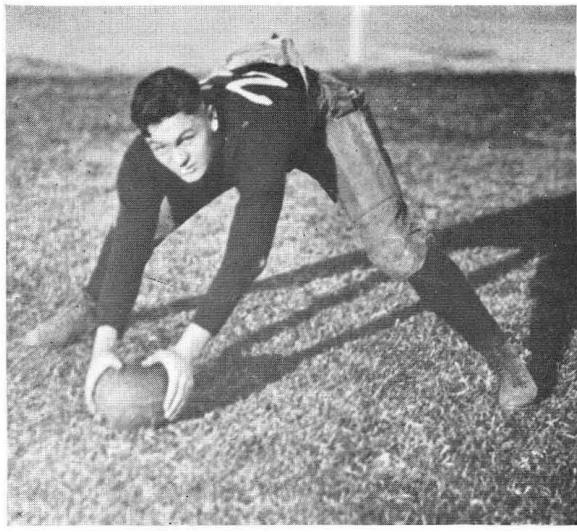
EDWARD KINSEY

"Ed" filled the position of fullback two years ago but this season admirably did the work at right guard. He fought hard every minute he played and stopped many line bucks. His happy nature helped the moral of the team. He was our heaviest lineman and will look good on next year's team.



ROBERT HEILBRON

"Bob" played a wonderful game at right tackle this year. He was fight personified and certainly gave his opponents a lot to worry about. It is fine to see the way he applies himself in a game. With Bob and "Big Bob" Stein back next year we should have the two best tackles in the conference.



FRANK NICKELL

"Nick" passed the ball from center this year in a worthwhile fashion. His defensive work was also of a good character, few gains being made over his section of the line. He is only a Sophomore, and so has two good years left at Tech to further prove his worth.

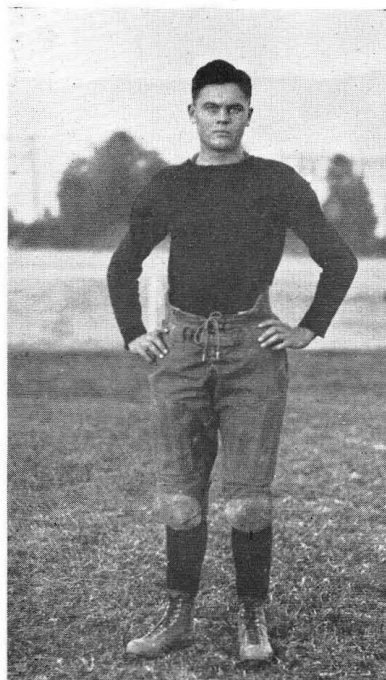
STUART JOHNSON

"Stu" played halfback this season and put all he had into the game. He was very fast and shifty, making possible the longest play of the year by chasing Green of U. S. C. for eighty yards and overcoming a ten yard lead in this distance, tackling him on Tech's goal line. He is a deadly tackler and will surely aid Tech next year.



LAYTON STANTON

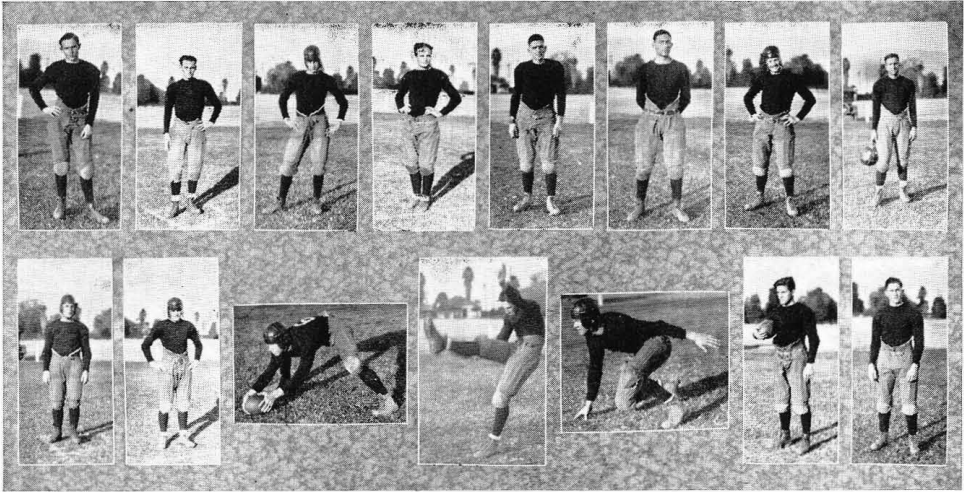
"Layt" is a true son of "The Fox" as he showed by his great fight and ability. He played left halfback this year, also calling the signals part of the time. He can pass accurately with either hand. He is a demon at carrying the ball, averaging the longest gains of any man on the team and carrying the ball frequently. He should give a lot to Tech in his remaining two years.



JOSEPH MATSON

"Joe" successfully filled the position of football manager. He was on duty as long as the team was practicing, caring for their needs, arranging for transportation and doing the many odd jobs that come to a manager. He was popular with the men and so made an excellent manager.

SECOND VARSITY



DILLON HAYWARD MESERVE MINKLER HENDERSON TEMPLIN PETERSON BRYANT
 BALL MORRISON HILL JONES HELMS SMITH COPELAND

THE men of the Second Varsity Team are heard of more or less as substitutes for first Varsity. They are the men who occasionally get put into a game to relieve some first team man. They work hard, get little glory, yet most of them get their chance to make good. However there are those who work hard all year and never get a chance to play in a regular game. Next year they will get their chance unless the man happens to be a senior. If he is a senior it means that he goes from Tech with little or no thanks, for the second varsity award is really a very small thing, considering the sacrifice of this senior. There are seniors who have played on the second varsity team for three years and have seen but little of the varsity conference games. These are the ones who are really true Tech men. They have the right attitude and the real Tech spirit—fight and sacrifice for the reputation of the college. These are the men who will be forgotten but who should not be. It seems that human nature will not take into account the fact that a man has tried. It is results that are asked for and demanded. How artificial, how insincere, yet how true. If there were only some way that the college could be made to feel for these men. They pass on unheralded and unsung. Surely in some year to come, and may it not be far off, a plan will be arranged by which these men will get their just reward.

There are also those members of the second varsity team who are underclassmen. These men may in time play into the same role as the seniors already mentioned, but at least the underclassmen still have one or two years more in which to try to perfect themselves into first varsity material. Many do develop into good all around players and are rewarded both in publicity and in their own minds. Of these men only one thing can be said: watch them for they are comers.

The men who won second team letters this year were—Hill, Helms, Westlund, Hayward, Henderson, Jones, Bryant, R. Copeland, Peterson, Upward, Morrison, J. Smith, Minkler, Meserve, Jackson, Dillon, Templin, Hess, Heilbron, and Ball.

LA VERNE GAME

Against La Verne, the only game the second varsity had scheduled this year, Tech was unfortunate enough to lose by the score of 36-12.

It must be remembered that the second varsity seldom plays together as a team, except to run signals. All their actual scrimmaging is done with the first team and there is hardly ever more than two second team men in at the same time. There is a big difference between running signals together and playing another team. The first is practice with no opposition while the second is just like a game. What is most important, the second team has not learned each other's actions as well as they have the actions of the first team.

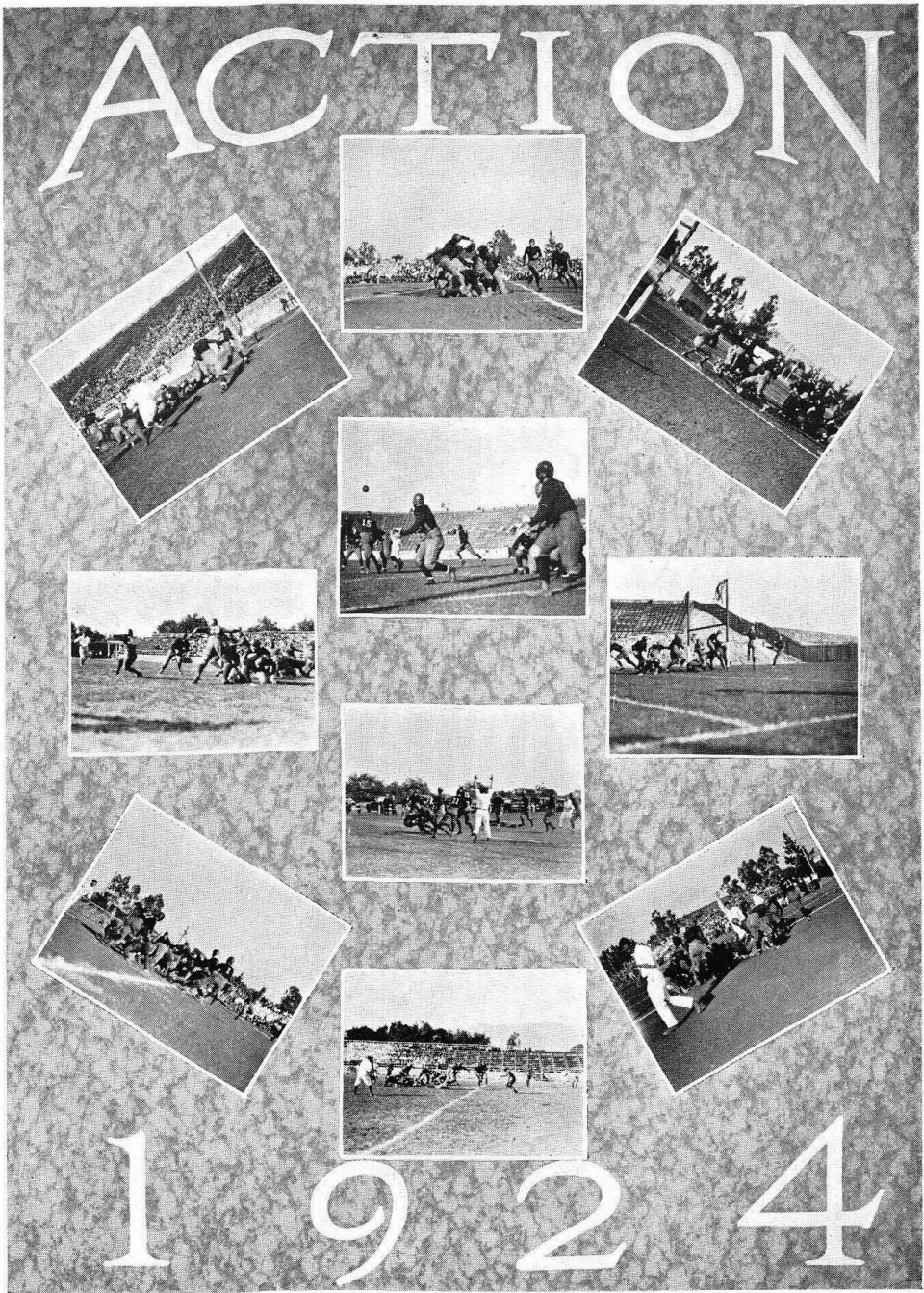
In the first half La Verne went right to work and toward the end of the first quarter scored a touchdown. In the second quarter they scored first a field goal, then a touchdown. The score stood 16-0. This seemed to bring Tech to life and after some good running and rather sensational dives and slides by both Baker and Johnson, coupled with a forward pass to Smith, Tech chalked up six points.

In the third quarter, La Verne seemed determined not to let Tech score while they managed to put over another touchdown and add the extra point.

Toward the end of the fourth quarter things became interesting when Moore fell on a La Verne fumble. A few more plays and Tech's score read 12. In a final effort to nose out the visitors the Beavers opened up with forward passes only to have one intercepted and La Verne add seven more points to their total. But the game was not over for with about a minute to play La Verne scored again with passes and long runs. The final score read: La Verne 36; Tech 12.

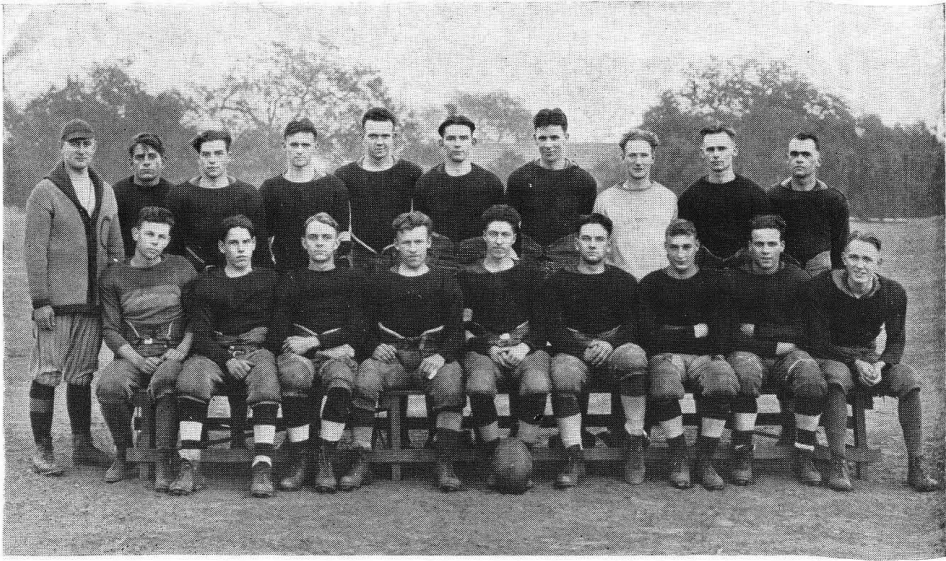
	Score by Quarters				
	1	2	3	4	Total
La Verne	6	10	7	13	36
Tech	0	6	0	6	12

ACTION



1924

THE SCRUBS



THE Scrub team, commonly known as the Red Shirts, is a team that is hardly ever heard of at all. They are the men who give the varsity their practice and have more to do in making a good varsity team than most people realize. They never get a chance to play in a regular game yet they work hard every day all season long.

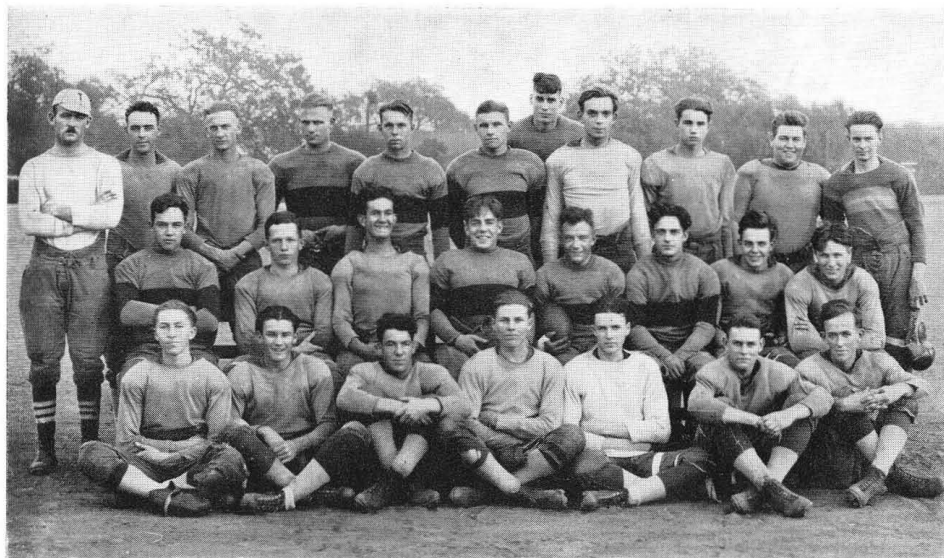
Due to the new system of scouting inaugurated during the last two years their work has increased at least seven times. The scout comes in with a set of plays used by a future opponent and the scrubs have to perfect these plays and scrimmage the varsity at least three times during the week prior to the game. This means that for every team that the varsity plays the scrubs have to learn at least ten plays, know the signals and be able to recall the plays upon the spur of the moment. With seven or eight varsity games during the season this shows that the scrubs have to learn about seventy or eighty plays. Some of the plays may be similar but it is safe to say that no two plays are exactly the same. The differences must be kept in mind and the plays run correctly or else the varsity does not benefit: they cannot be run in a half hearted manner.

The scrubs work at utter disregard of self. They have two incentives for good work. First, the desire to help make a good varsity team and second, a hope that the coach may see in them varsity material and give them a berth on the second varsity squad. It is true that the coach is at all times keeping his eyes on the scrubs for just this thing. Sometimes he finds this material.

This year the scrub team was exceptionally good and at least four red shirts were exchanged for black jerseys. These men will be heard from in future years but the men who stay on the scrubs are fellows who have real courage to stick out the whole season with little chance of reward of any sort except that in their own minds they know that they have helped to make a fighting engineer eleven.

Letter winners on the scrub team were: Barnes, Blankenburg, Fenwick, Gottier, Thompson, Margison, Wallace, Capon, Farley, Love, Farrar, Haserot and Fisher.

THE FRESHMAN SQUAD



WITH twenty-eight men in suits throughout the season this year's freshman class can boast of the biggest turnout for frosh football in the history of the college.

Their first game was with Franklin High School. This was the first real football contest for most of them. Then they played the Pomona College frosh, Harvard Military Academy, Bakersfield High School, Christian College, San Diego Army and Navy Academy and the S. B. U. C. frosh in the order named. From a loose aggregation of inexperienced men at the first of the season Coach Bernie Evans, 1922 Caltech Varsity Captain, turned them into a fighting unit by the time the season ended.

Although their scores were not all in their favor, they showed they had the makings of varsity men in them by the spirit they showed in all their encounters.

Numeral winners were: Howard Dodge (Captain), H. A. Peterman, George Weego, Bill Mohr, Wallace George, Philip Durfee, Don MacFaddin, Kenneth Crosher, Joujon-Roche, Anthony Gray, Douglas Kingman, John Goodwin, Richard Folsom, Don Johnson, Don Nichols and W. Lewis.

THE WHEATON TROPHY

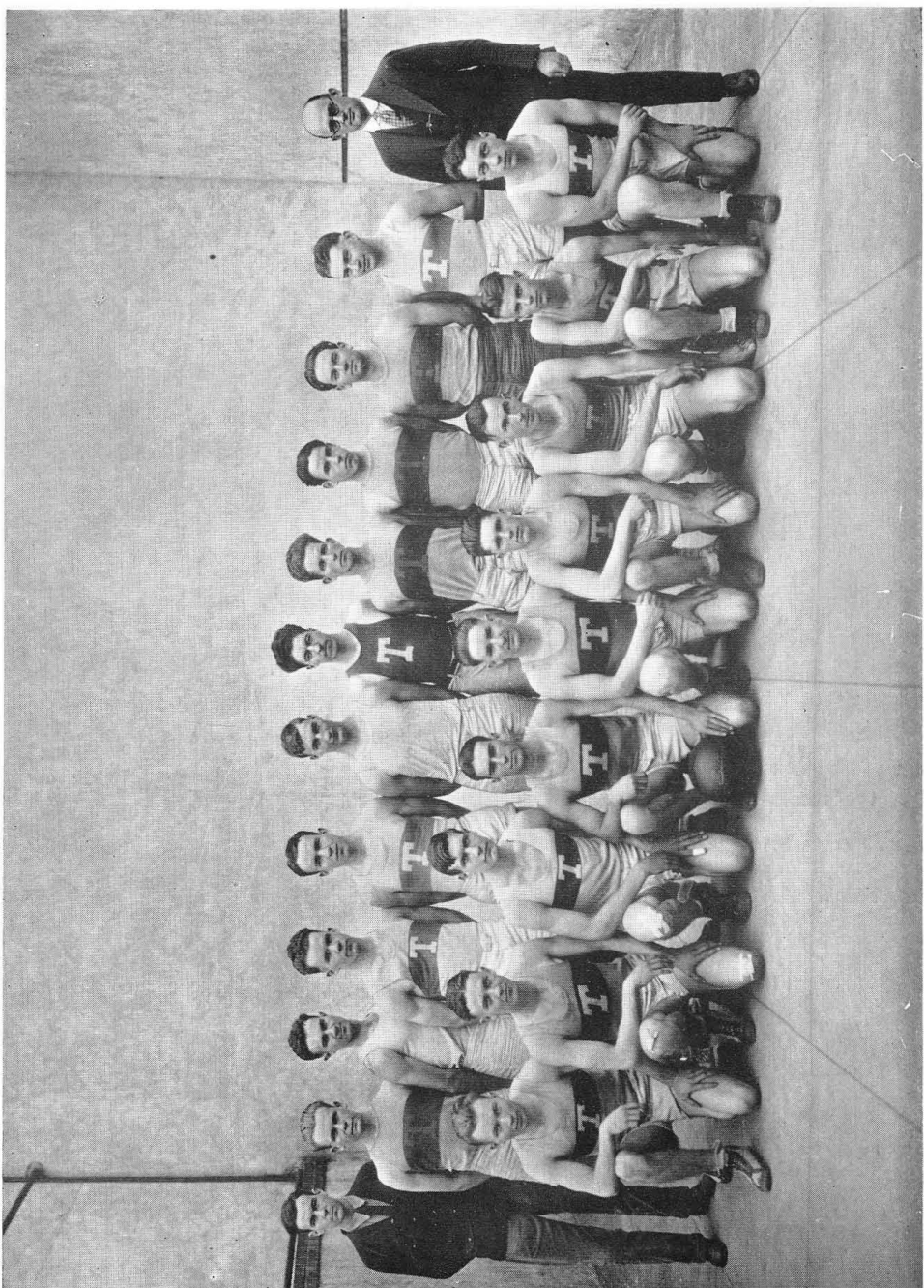


MICHAEL BRUNNER

This year Mr. Wheaton, a former Yale man and an ardent follower of athletics, now with the T. V. Allen Co. in Los Angeles, presented Tech with a beautiful perpetual trophy on which each year the name of a football man is to be engraved. The man whose name will appear on the cup must possess three qualities—he must be a good sportsman, he must exert a good moral influence on the team, and he must be a good scholar. All the men out for football grade each other in the first two qualities, the grades for scholarship being filled in by the faculty. The man whose total is the highest is the winner of the Wheaton Trophy.

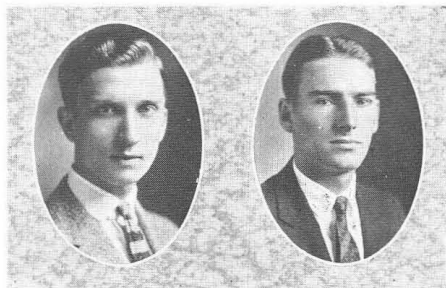
“Mike” Brunner was the first man to win the honor. His work at end of the Varsity eleven showed that his sportsmanship was far above reproach. He always instilled a spirit of clean play and hard fight into the other members of the squad. These two traits, together with “Mike’s” scholarship record, go to show that when he was chosen for the honor this year, the honor went to the right man.

The Wheaton Trophy will remain always at Tech to raise the level of football sportsmanship to the highest pitch. By having the scholarship requirement it is assured that the man whose name is put on the trophy does not place pleasure before business—football before scholarship.



one hundred twenty-four

BASKETBALL



CAPTAIN BRUNNER CAPTAIN-ELECT WERDEN

THIS year Tech was not in the Southern California Conference in basketball, due to certain difficulties that arose in the football season. The season was, however, very successful; the team developing a great deal during the year.

Captain Mike Brunner, Ed Shafer, and Art Werden were the three lettermen who returned forming a nucleus for Coach Musselman to build the varsity around. Brunner and Shafer had each won their letters for two years. A great blow came early in the season when Capt. Brunner broke his wrist. The injury kept him from playing in all but the last game of the year.

The team practiced at the Pasadena Y. M. C. A. They played practice games with certain Y teams and also with Pasadena High School and Junior College. The regular schedule contained games with neighboring colleges and every game was very interesting. Tech made 200 points to their opponents 239 in the eight regular games which shows the brand of basketball they played.

Lettermen for this year are: Werden, Maurer, and Peterson, forwards; Starke, center; Pyle, Shafer and Streit, guards. Maurer, Shafer and Brunner are the only seniors, so Tech will have five lettermen around which to build next year's Varsity. The Frosh will also furnish some good Varsity material. Men who practiced faithfully throughout the season and helped develop the Varsity are: Pearson, Hanson, Maag, Cutler, Gottier, Seymour, Erickson, Capon, Margison, Wallace and Ed Ward.

GAMES

TECH-OCCIDENTAL 31-49

In the first regular game of the season Tech met Oxy on the Franklin High School court. Playing without Captain Mike Brunner the team was working under a handicap but they soon found themselves and at the end of the first half the score was 21-19 in Oxy's favor.

Tech came back strong at the opening of the second half and took the lead but was unable to retain it, and Oxy finally won by the score of 49-31 after brilliant playing in the latter part of the second half.

The starting lineup was Werden, Maurer, Starke, Shafer and Pyle. Starke, the lanky Sophomore, showed his great accuracy at shooting baskets by making 18 points. Oxy finished second in the Conference, so Tech opponents were first rate performers and the Beaver's first game brought out their teamwork and confidence.

TECH-LA VERNE 25-34

Tech's Varsity traveled to La Verne for their second game. It took the Beavers about seven minutes to get acclimated to their new surroundings and during this time the hosts had accumulated a large enough lead for victory.

At the end of the first half the score was 28-10. In the second half Tech made 15 points to La Verne's 6. Tech played a fighting, consistent game during this period and the last part of the first half. The fight that was thus evident showed the true spirit of the team. During this encounter it functioned very well as a whole, no one individual being responsible for the comeback of the team.

TECH-REDLANDS 26-24

Tech journeyed to Redlands with every man determined to give everything he had in the game. The result of this was a very hard fought encounter, the half ending 13-11 in favor of Tech and each team adding 13 digits in the second canto.

Scoring honors were equally divided between Werden and Starke, each of whom accounted for ten markers. The usual lineup started, however Peterson and Maag had a chance to help Tech in the second half.

The game was hard fought throughout and the victory was well earned. The lead oscillated during the first half which made it a good game from the spectators standpoint.

TECH-LA VERNE 23-28

In the first home game of the season Tech played La Verne a return game, being forced to take the short end of a 23-28 score.

The encounter was filled with thrills for the spectators and was a hard-fought affair. The first half was especially interesting the score being 9-9. In the second half Tech's defense weakened somewhat and the offense did not improve enough to quite balance this decline.

Starke was high man with 11 markers. Art Werden followed close with ten, while Jack Maurer added the remaining two.

TECH-C. C. C., 25-21

California Christian College met Tech's hoop artists on the local Y. M. C. A. floor in a very exciting game. The first half was relatively dull, neither side exhibiting much teamwork or skill and the period ending 12-5 in favor of the visitors.

At the start of the second half both teams played a different brand of ball. The Beavers were determined to overcome their seven point handicap. In moments tense with excitement the second half was played and ended a 21-21 tie. After two minutes rest playing was resumed for five minutes, in which Tech held the visitors scoreless and made two goals from the floor thus winning the game. Art Werden with eight digits was high man while Starke, Maurer, Pyle, Streit, Erickson and Peterson each contributed points to the final sum.

TECH-LOYOLA, 17-18

In one of the fastest and closest games of the year Tech met Loyola on the P. H. S. court, the visitors going home with an advantage of one point. At the close of this encounter the score stood 17-18. The teams took turns being ahead and thus made the game interesting for the excited rooters.

The feature of the game was the fast floor work and dribbling of Ivan Pyle, Tech standing guard. He took the ball many times through the whole Lion team and shot baskets. Such actions on the part of a guard surprised the invaders. Frank Streit at the other guard position also performed notably.

TECH-POMONA, 25-40

Coach Musselman's squad traveled to Claremont and met the Pomona College team, emerging with the small side of a 25-40 score. The score does not really indicate the merits of the game.

At the end of the first half the score was 19-8 in favor of the Sagehens. At the start of the second half the Beavers were working together almost perfectly and staged the best rally of the year. They brought the score up to 21-19 in Pomona's favor. Then came three successful field goals from long shots, and this seemed to kill the Tech rally.

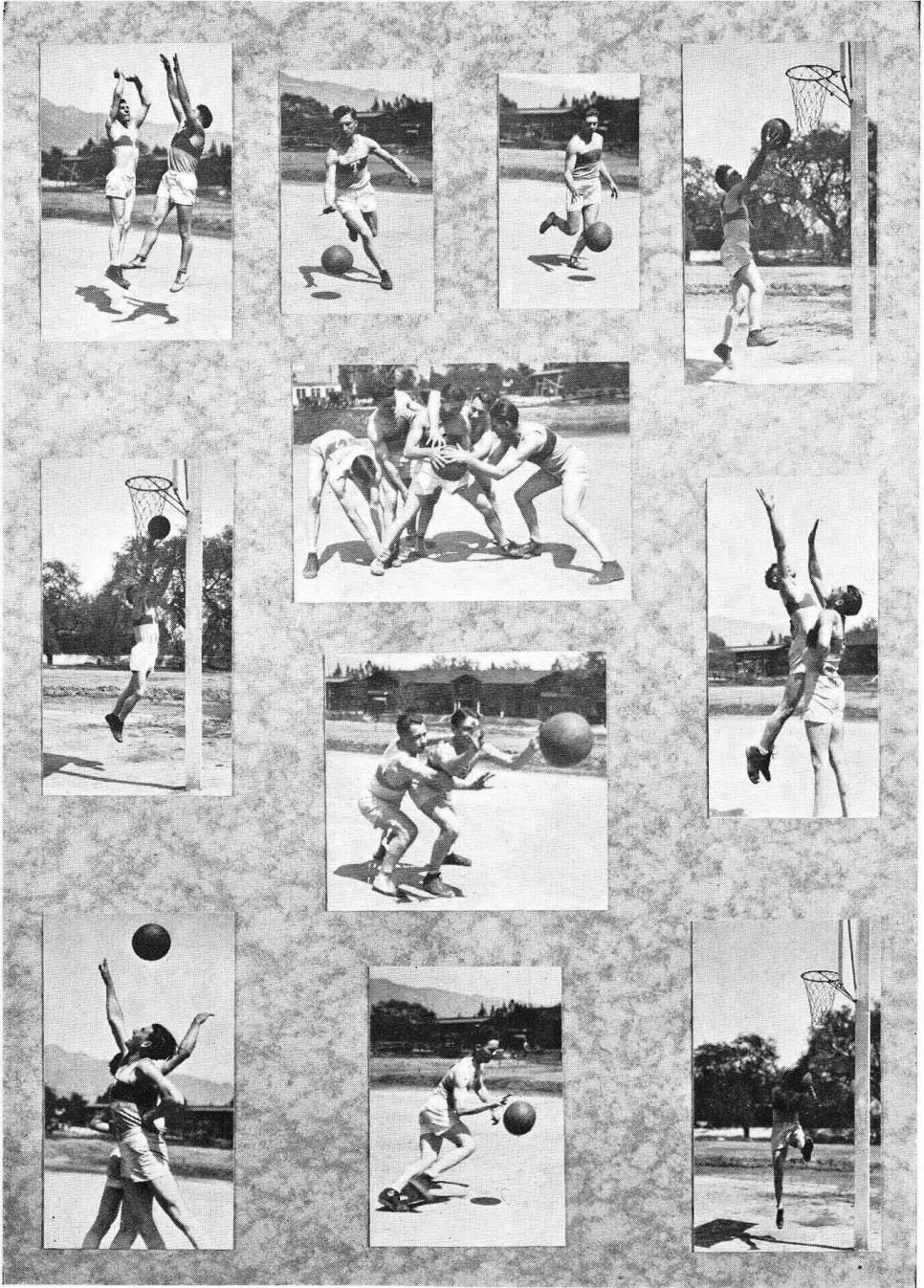
Art Werden and Peterson made most of Tech's points. Starke Pyle, Maurer, Shafer, Streit, Seymour and Cutler all upheld the honor of the Orange and White in the game.

TECH-REDLANDS, 28-25

Tech finished the season in an impressive manner by defeating Redlands at the Pasadena Y. M. C. A. 28-25. This was a return game and the Bulldogs were determined to avenge their defeat at Redlands of five weeks previous, thus the game was very hard fought and interesting.

The first half found both teams playing well and neither being able to get much advantage over the other, the periods ending in a 15-15 tie. In the opening of the second half Redlands staged a rally, carrying the score to 24-18 in their favor. Then Tech staged a rally and managed to score ten points to Redlands' one in the remainder of the game and so won.

Starke was high point man with 12 points. Mike Brunner got in the game, his wrist having sufficiently healed for a few minutes work.



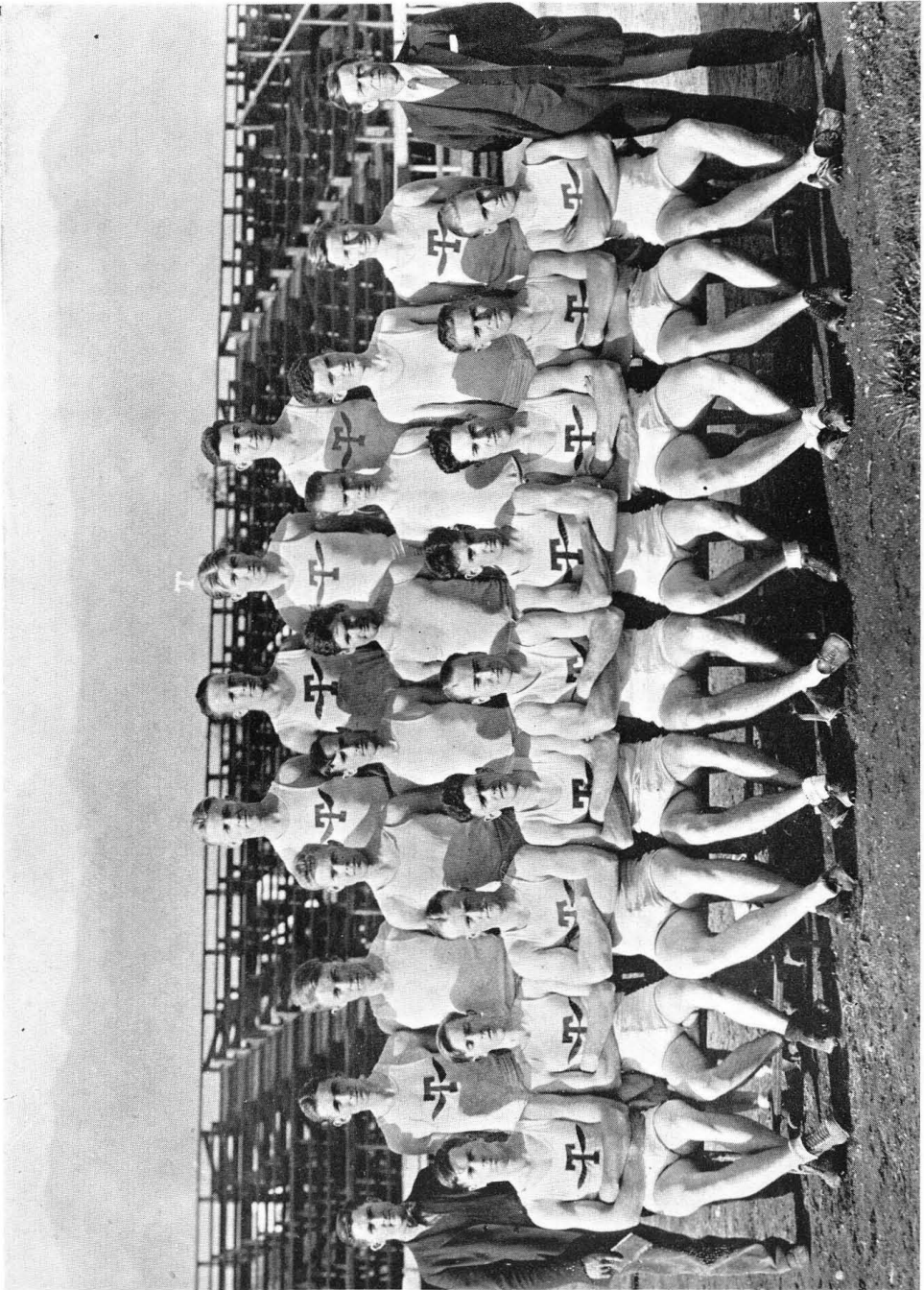
FRESHMEN BASKETBALL



THE Frosh team this year developed into a very strong organization and will give good material for next year's Varsity. Credit is due their coaches who helped them mold the team. Prof. Langer acted as coach during the first of the season and later Mike Brunner took over the reins.

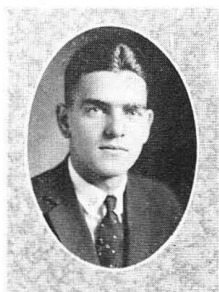
Their first game of especial merit was a 13-10 win over the fast Pasadena High School aggregation. They played three games against other Conference Frosh teams. The first of these was with Oxy which Tech won 21-11. It was a fast game, being the teamwork, especially commendable. In the next encounter the Frosh met Pomona's peagreeners at Claremont. In this game they were not so successful, losing by a score of 37-9. On the strange floor they seemed unable to get under way in their usual manner. In the last game of the year for the Frosh, the Redlands Frosh sent the young Beavers away with 13 points to 26 for the Bullpups. The latter displayed a fine brand of ball, yet Tech was in the midst of a rally as the final whistle blew.

The Frosh materially helped the Varsity by scrimmaging with them. Their own success was very gratifying as few of them had had experience in basketball before coming to Tech. The men winning numerals were: Evans, Dodge, and Hossack, forwards; Joujon Roche, center; Lombard, McDonald, McFaddin, Kenny Robinson and Kingman, guards. Others who played with the Class of '28 organization were: Schweinfest, Johnson, T. W. Robinson, Lash, George and Sweeting.



one hundred thirty

TRACK



CAPTAIN HENDERSON

SEASON

Coach Stanton appears to have contracted a habit that he is incapable of curing. That habit is developing track stars from a very little amount of material. Year after year in the columns of the California Tech is seen the announcement that the "stars" of the past track season have decided that theirs' was not to be an engineering profession and have abandoned the abode of Apollo for other realms. And yet, at the end of the season there is a squad of track mutilators that would do credit to any college in the conference. This year Coach Stanton had to face the prospects of having no sprinters, no weight men, no high jumpers, and no distance men. But history repeated itself and before the year was over Edwards and Combs were stepping the cinders in real varsity fashion; Hoover, Anderson and Edwards were the ruination of many a conference weight star; and Stanton had got to the frosh and developed some of the best high jumpers and distance men that have ever pushed spikes into Paddock field. These men will all be back next year and with the return to college of several star sprinters absent on leave the engineers will face the conference with one of the most dangerous teams ever developed at Tech.

Tech finished third this year in conference ratings.

Letter winners were Captain Henderson, Alderman, Larson, Newcomb, Pomroy, Graham, Hill, Edwards, Bidwell, Ralston, Meserve, Anderson and Hoover.

M E E T S

A. A. U. MEET

After vanquishing most of the available high schools Tech entered a team in the annual A. A. U. relay meet. The big surprise of the meet from Tech's standpoint was the unexpected good showing of Pomeroy in the hurdles. His pretty exhibition in the 440 yard event showed that he was going to be one of the best hurdlers in the conference. Glenn Graham ran into some hard luck in the form of two Smith brothers from San Diego, who along with Lee Barnes were able to grab most of the points in the pole vault. The Tech relay teams made a consistent third or fourth, depending whether there were three or four teams entered. In these relays Miller and Henderson did some pretty running.

TECH-POMONA MEET

Showing a world of unexpected stuff the Sagehens played a funeral dirge for Tech to the tune of 121 to 28. Despite the rather lop sided score the Engineers made Pomona work for every point and the meet was much closer from the spectator's viewpoint than the score would indicate. Henderson, Graham and Edwards accounted for first places in their events, while Pomeroy, Hoover and Larsen made determined bids for places. Maxwell, Clark and Turner all did good work for Pomona and accounted for most of the Blue and White points.

TECH—OXY MEET

Still wondering what their winning combination was the Beavers were the Tiger's meat in the second conference trackfest. The score again indicated a massacre that wasn't apparent on the field, and read 92 to 48. The meet started off with a big upset when Edwards went down the century for first place over a field of reputed conference champions. Another early upset was the work of Pomeroy in winning over Wall and Tanner of Oxy in the fast time of 16 flat. Hill also delivered the goods in varsity fashion, winning the hammer at 108 feet. Anderson, winning first place for the first time in his event, showed a lot of familiarity with the javelin and promised some good future performances, Graham as usual accounted for five points in the pole vault. Larsen also performed in big league fashion in the pole vault and got a tie for second. For Oxy, Morey, Stevens and Bradshaw were the prevailing stars.

TECH—BRANCH MEET

Finally hitting all around the Engineers showed off their stuff sufficiently to come from behind and tie the Branch squad after a spectacular relay. The Branch got off to a good start in the meet and after a few events had been run off it looked as though the Engineers were doomed to lose the meet. But Henderson's work in the 440, Pomeroy in the hurdles, and the work of the Tech weight squad brought the Beavers within striking distance of the Grizzlies when the relay was called. Even there the Grizzlies seemed lucky for the first three men continued to chalk up a steady lead over the Beavers. But Henderson, running the last lap, showed that he was capable of more than one 440 a day when he traveled the last lap in record time and won the relay by inches. It was a wonderful exhibition of running and ended a wonderful meet.

TECH—REDLANDS MEET

Having tasted of victory it was hopeless for the Bulldogs to attempt to stop Tech's winning streak and the former were defeated 85½ to 54½. Edwards decided that he hadn't been getting his breaks so he stepped out and made himself high point man with three firsts and a second. Pomeroy was also high in digits, winning both hurdle events in fast time over Chuck Bidwell. Merely to round off the day Graham broke the old conference record of 12 feet 6 inches in the pole vault by going two inches higher. The Beavers made a clean sweep of the javelin, Anderson, Hoover and Newcomb delivering in the order named. Meserve delivered a first in the 440. Garner of Redlands proved to be a thorn in the side of the Tech men for he won the mile, two mile, got a second in the half, and was largely responsible for Redland's win of the relay.

THE CONFERENCE MEET

Tech got third in the conference meet by showing off better than had been expected. Pomeroy delivered the goods in the hurdles although he did not win first; Anderson got a second in the javelin, Edwards made things interesting and Graham was a trifle off form and had to be content with a tie for first in the pole vault with Clark of Pomona. Henderson also put in a pretty bid for the 440 and made the leaders keep up a mean pace. Tech consistently took points away from Pomona and Oxy when they were needed most and finally forced Pomona and Oxy to tie by beating out Pomona in the relay. Anderson showed that he will probably be the leading javelin hurler of the conference and should Mayhew be in the engineer fold next year the combination should prove a hard one to beat.

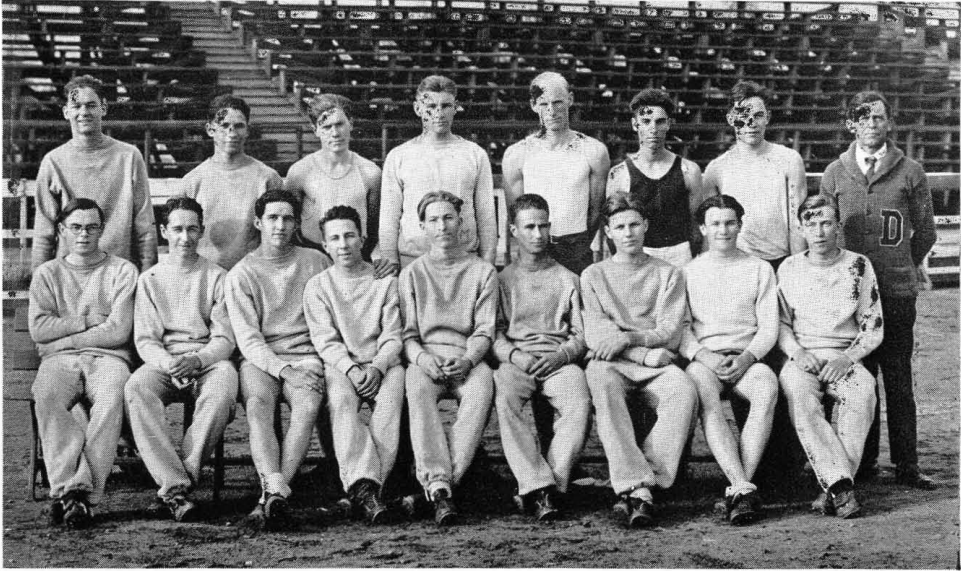
CALIFORNIA-WISCONSIN-ALL-STARS MEET

As members of the Southern All Stars Anderson and Graham contributed to the All-Star's points when Anderson got second in the javelin and Graham tied for first in the pole vault. In the meet California got first, Wisconsin second, and the All-Stars third.

COLLEGE TRACK AND FIELD RECORDS

- Mile run—Keech: 4 min. 31 2/5 sec., 1923.
 100-yard dash—Crissman: 10 sec., 1921; R. Darling: 10 sec., 1923; M. Schultz: 10 sec., 1924.
 120-yard high hurdles—R. Pomeroy: 15 9/10 sec., 1925.
 440-yard dash—Clough: 52 2/5 sec., 1921.
 Two-mile run—D. Keech: 9 min. 52 1/5 sec., 1923.
 880-yard run—L. Henderson: 2 min. 5 3/5 sec., 1924.
 High jump—R. Sears: 5 ft. 7 in., 1923.
 Broad jump—L. Newcomb: 21 ft. 7 in., 1925.
 Shot put—Manley Edwards: 37 ft. 9½ in., 1925.
 220-yard low hurdles—D. Fowler: 25 4/5 sec., 1923.
 220-yard dash—Schultz: 22 sec., 1924.
 Hammer—H. Moyse: 146 ft., 1924.
 Javelin—Fred Groat: 162 ft., 1924.
 Pole vault—G. Graham: 13 ft., 1924.
 Discuss—M. Edwards: 120 ft. 5 in., 1925.

FRESHMAN TRACK



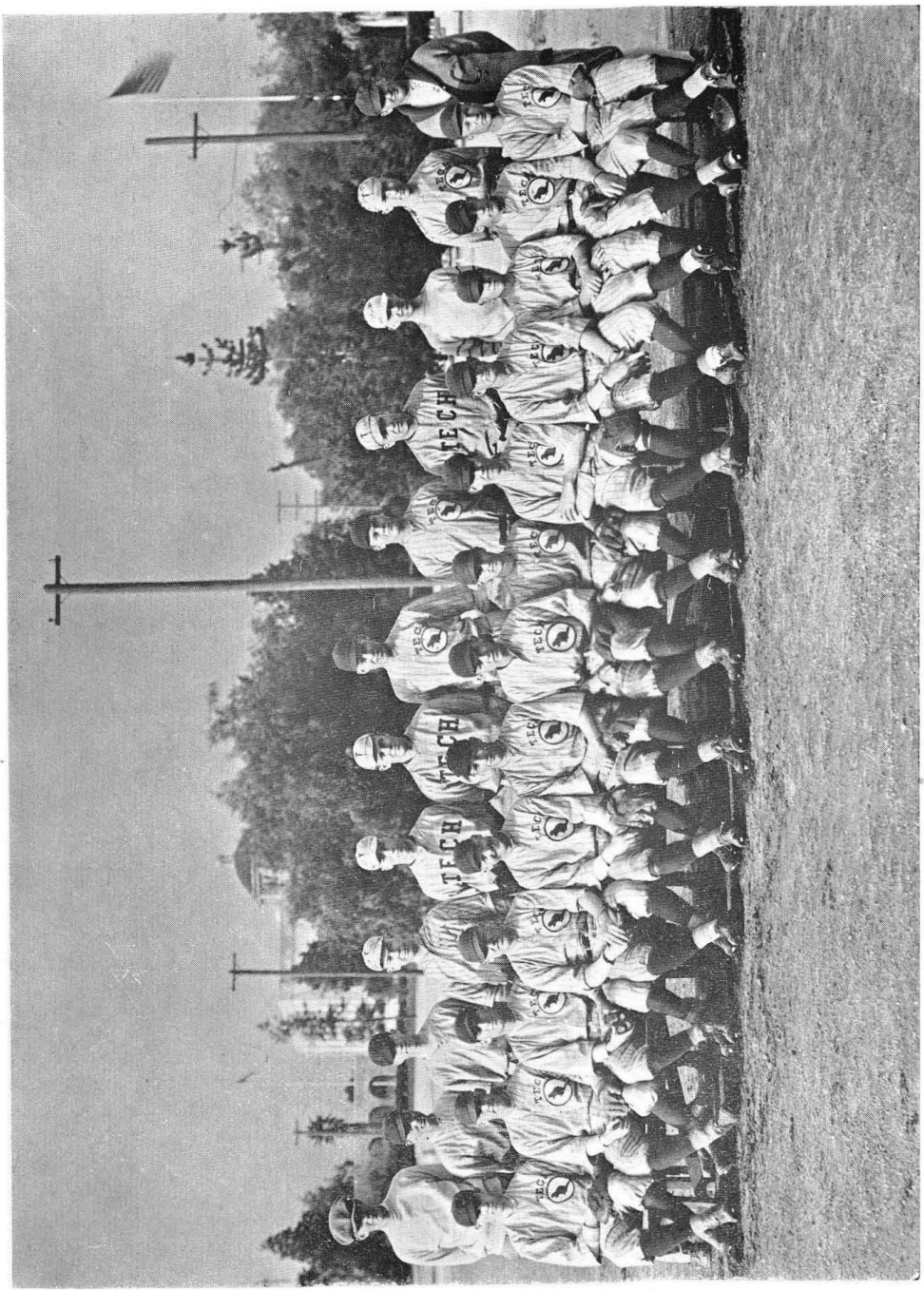
GRAMMATKY, GERWERTZ, GOODALL, MOHR, BELL, MAUZY, FOLSON, STANTON
COULTER, HOLLINGSWORTH, ROSS, BILLIG, MASON, MILLER, LYNN, SCULLIN, BAUSTIAN

Starting the season with a squad that looked as though it would be lucky to score a first place the frosh spike pushers developed rapidly into one of the best track machines ever put on the field by the peagreeners.

During the first part of the season the frosh were represented by men who scarcely knew the feel of spikes and the squad was rather unlucky in accumulating digits. But along toward the latter part of the season these same men were making their quota in the fastest of company.

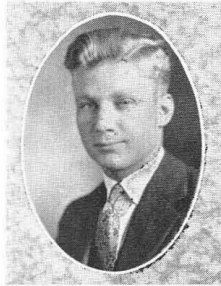
There were very few stars among the frosh squad, team work playing the major part of their success. Coulter, Lynn and Miller were perhaps the biggest stars but they only seemed so because of the performances they were forced to put on by their teammates. Baustian, Gewertz and Mason also gave some pretty exhibitions in the middle distances while Mauzy and Gramatky were right there in the hurdles. Hollingsworth's performances in the broad jump were of high calibre and class him as a valuable man to have around.

The frosh showed that although they could not hope to annex the conference title as a frosh squad, that they would be serious contenders for such a title as varsity men.



one hundred thirty-six

BASEBALL



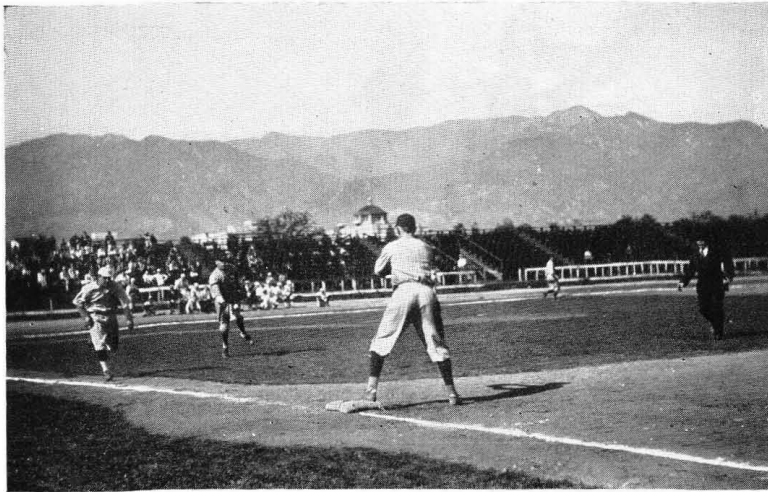
CAPTAIN FRICKER

With two more games to play, the Beaver nine had a balanced score sheet with three games won and the same number lost. At that time the Grizzlies and the Sagehens were the Engineers' two nearest contenders for second place in the conference, Oxy's Tigers having first place safely tucked away.

When the season started with a hard-earned win from Pomona, the men knew they would have to step lively to keep in the running for the conference honors. The game with Redlands showed a better brand of ball, but in the next game the Sagehens turned the tables and chalked up a win. The two contests at the Branch, one of which was won by each team, were exhibitions of real ball.

The men all played the game with the true Tech fight. Although it would be impossible for them to take the championship this year, there will be at least six lettermen back next year to make the other teams step. The biggest need of the team this year was the ability to hit at the critical times. In the field the men all showed that they were capable of handling the ball in a first class manner.

GAMES



TECH-POMONA GAME

POMONA AT TECH

The conference baseball season opened for the Beaver nine on April 11, when they overcame a six-run lead and won a ninth inning victory over the Sagehens. The scrap was a "mediocre game with its bright spots," for neither side either distinguished itself with good playing or disgraced itself with bad.

Blunt's bright spot came when he knocked a home run, and threw two men out at third, from centerfield. Crocker knocked out a three-bagger and a single, while Larabee and Maechtelin each batted .600. Pompeo showed himself really capable of covering left field when he snagged a hard-one-to-get that might have been a "homer."

For Pomona, Holsinger was the bright spot, pitching the whole game and getting a three-bagger and a single.

Box Score

	AB	R	H	PO		Score by innings												
Peterson, 2b	4	1	1	0														
Allyne, 3b	4	1	2	4														
Fricke, c	5	1	2	7	Caltech	1	0	0	0	0	1	4	1	1—	8			
Larabee, 1b	5	3	3	10	Hits	4	0	1	0	1	2	4	1	*—	13			
Crocker, rf	5	1	2	0														
Maechtelin, p	5	0	3	2														
Blunt, cf	4	1	1	0														
Pompeo, lf	4	0	0	2	Pomona	4	1	1	0	0	1	0	0	0—	7			
Beed, ss	3	0	0	2	Hits	3	2	2	0	2	2	3	1	2—	17			
	<hr/>	<hr/>	<hr/>	<hr/>														
	39	8	13	27														

TECH AT REDLANDS

The Tech nine started off the game at Redlands by putting three men across home plate in the first inning. Redlands came back at them with two runs in the same inning, but were unable to get any more thruout the game. Larabee, Belcher and Kerr each got three-base hits, Larry batting .600. The final score was 9-2 with the Beavers ahead.

Box Score

	AB	R	H	PO
Peterson, 2b	3	3	1	0
Allyne, 3b	5	1	1	3
Fricke, c	3	1	1	4
Larabee, 1b	5	3	3	13
Crocker, rf	4	0	1	1
Maechtelin, p	4	0	2	0
Blunt, cf	3	0	0	1
Pompeo, lf	3	0	1	2
Beed, ss	2	1	1	3
Totals	32	9	11	27

LA VERNE AT TECH

Altho the game with La Verne was not a regular conference scrap, it was almost as important as one to the Beavers for the time played counted towards the sweater awards for the season.

As the second string had previously lost a game to La Verne, the team was out to get revenge, and got it to the tune of 12-4.

The game was not especially sensational, but the Engineers played particularly well. La Verne's fielding was good, but her infielding was weak. Allyne and Crocker did some excellent stick work, Allyne gathering in a double, two singles, and a wallop that came near being a homer. Crocker's hits were not long-distance ones, but they came at opportune times to bring in runs.

Tech's lineup

	AB	H	R	PO
Peterson, 2b	5	1	2	1
Allyne, 3b	5	3	2	3
Fricke, c	4	2	3	9
Larabee, 1b	5	2	2	5
Crocker, rf	5	3	1	0
Maechtelin, p	5	1	0	1
Blunt, cf	4	1	0	1
Pompeo, lf	2	0	1	3
Beed, ss	3	0	1	4

Summary

Caltech	3	0	0	0	1	5	0	3	0—12
Hits	3	0	0	1	2	3	0	4	0—13
La Verne	0	0	2	0	0	0	1	0	0—4
Hits	0	1	2	1	1	1	0	1	1—8

one hundred thirty-nine

OXY AT TECH

The game with Oxy was a sad story from start to finish. The first few innings looked as tho it was going to be a close affair. But in the third inning Oxy found Maechtelin and proceeded to do some heavy-hitting. Teachout, Oxy's pitcher, must have had a rabbit's foot in his pocket, for try as hard as they could, the Beavers couldn't connect with his speed-balls. Crocker made the only hit in the game for Tech, but with none on base it failed to bring in a run. When the game ended, Oxy had succeeded in getting 13 men across the plate and keeping the Beavers behind third base.

Summary

Oxy	0	0	0	3	2	1	2	0	5—13
Hits	1	0	0	2	2	3	2	0	6—16
Caltech	0	0	0	0	0	0	0	0	0—0
Hits	0	0	0	0	1	0	0	0	0—1

TECH AT POMONA

The Engineers' second clash with Pomona was anybody's game until the last half of the ninth inning was over. Both sides made several breaks, but Pomona was always fortunate enough to benefit by Tech's mistakes to a greater extent than Tech was by Pomona's. Clark, with four hits out of five times at bat, was the star for Pomona. The Beavers knocked Holsinger out of the box in the early part of the game, but they were unable to compete with Shaw who replaced him. Pompeo came thru with some nice catches. Maechtelin pitched a nice game, but the outfielders didn't seem to catch on to the way the balls hopped around in their territory.

Box Score

Tech				Pomona					
AB	H	R	PO	AB	H	R	PO		
Peterson, 2b	5	1	0	2	Martin, 1b	5	2	1	12
Allyne, 3b	3	0	2	2	Worden, 2b	5	0	1	2
Fricker, c	5	1	0	2	Spicer, ss	5	2	3	0
Larabee, 1b	5	2	1	8	Clark, lf	5	4	2	1
Crocker, rf	4	1	0	1	Sheppard, 3b	5	1	1	2
Maechtelin, p	4	1	1	1	Merritt, cf	3	1	0	0
Blunt, cf	3	1	1	3	Jones, rf	4	1	0	2
Pompeo, lf	2	0	0	2	Packard, c	4	0	0	7
Beed, ss	3	1	0	3	Holsinger, p	2	1	0	0
					Shaw, p	1	0	0	1
Totals	34	8	5	24	Totals	39	12	8	27

Summary

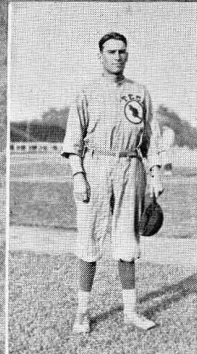
Caltech	1	0	1	0	0	3	0	0	0—5
Hits	1	2	3	1	0	1	0	0	0—8
Pomona	3	0	1	0	2	2	0	0	0—8
Hits	4	2	1	0	1	2	1	1	0—12



Triggs



Pompeo



Werden



Beed



Fricker



Maechteln



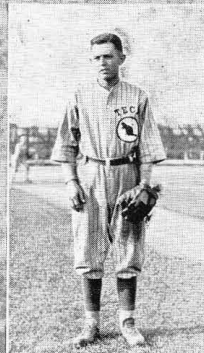
Crocker



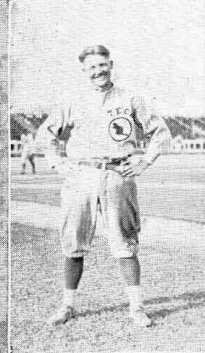
Blunt



Larabee



Allyne



Peterson

TECH AT S. B. U. C.

(Double-header)

The Beavers went to the Branch with the intention of playing two seven-inning games, but the teams were so evenly matched that it took nine innings apiece to decide the contests. The outstanding Tech player was "Iron-man Maechtelin," who pitched eighteen successful innings of excellent ball. Not once did he get himself into water too hot to get out of in the entire duration of play. At one time he prevented a score with one out and three men on base. Allyne did himself proud with his throws to first, and the consistency with which he knocked the ball over the lot. He got three hits out of four times at bat in the first game, and a two-bagger in the second. Larry caught every ball that came to first, whether it was a perfect throw or not. None who saw it will forget Pompeo's throw from left field when the first game might have been lost. He threw the ball far and true and held the runner on third. Blunt and Fricker also got nice hits. Three close decisions given to the Branch in the second game probably had a lot to do with the way the results turned out. The first game was a 3-2 victory for Tech, while the second went to the Grizzlies by a 2-1 count.

Box Score
FIRST GAME

Tech				Branch					
AB	H	R	PO	AB	H	R	PO		
Peterson, 2b	4	1	1	2	Turney, cf	4	1	0	0
Allyne, 3b	5	3	0	1	Al Wagner, p	4	2	0	2
Fricker, c	4	0	0	1	Art Wagner, lf	4	2	1	3
Larabee, 1b	4	0	1	17	Burns, rf	4	0	0	0
Werden, rf	3	0	0	1	McDougal, 2b	4	0	0	0
Maechtelin, p	4	0	0	0	Peake, 3b	4	0	0	0
Blunt, cf	3	1	0	1	Patz, ss	3	0	0	2
Triggs, cf	1	0	0	1	Hodge, c	3	1	1	10
Pompeo, lf	4	1	1	2	Clarke, 1b	3	0	0	10
Beed, ss	4	0	0	1					
	—	—	—	—	Totals	33	6	2	27
Total	36	6	3	27					

Summary

Caltech	0	0	1	1	0	0	0	0	1—3
Hits	0	0	1	1	1	0	0	1	2—6
Branch	1	0	1	0	0	0	0	0	0—2
Hits	1	0	2	0	1	0	0	2	0—6

SECOND GAME

Summary

Tech	0	0	0	0	0	1	0	0	0—1
Hits	0	1	0	0	0	2	0	0	0—3
Branch	0	0	0	0	0	1	0	0	1—2
Hits	1	1	0	1	0	1	0	0	2—6

FRESHMAN BASE BALL



TAYLOR, ROBINSON, JOHNSON, NOEL, HICKS, LYNN, JOUJON-ROCHE, DODGE, MACFADDIN, GULLATT, SCHROTER, LOMBARD, EVANS, HUGHES, SCULLIN, SCHWIENFEST, RUMMELSBURG.

FROSH BASEBALL

The frosh baseball squad was more inexperienced than most teams that come out in their year at Tech. Most of the candidates for positions on the squad could boast of no more experience than that gained in a vacant lot. Noel and Scullin both looked pretty good behind the bat, but it will take considerable working over to turn them into varsity material. In the box both Joujon-Roche and Hookway took a try at heaving the ball. Rummelsburg handled himself nicely at first base, and Dodge showed that he could use the bat for the purpose it was intended to be used. The other men were amateurs in the true sense of the word. They played games with the various high schools and frosh teams, but rarely came home with the bigger score. The lineup that played most was:

Scullin and Noel, catcher; Joujon-Roche and Hookway, pitcher; Rummelsburg, first base; Schweinfest, second base; Don Johnson, third base; Hughes and Dodge, short stop; Evans, Schroter, Lynn, Lombard, Hicks, Mac Faddin, and Robinson took turns in the field.

Lieut. Gullatt and Huston Taylor coached the peagreeners, and John Hillegas was their manager.

INTRAMURAL SPORTS

Intramural athletics have finally come into their own. This year the interest shown in the interclass sports has been greater than ever before and the brand of sport has been considerably improved.

In the interclass competition the Juniors got off to a flying start by annexing the football championship after some keen competition offered by the sophomores who got second. The games were replete with all the customary varsity thrills and a number of potential varsity men for next season were uncovered. In this first sport the seniors and freshmen tied for third but did not play off their tie.

The freshmen came to life in the second sport, cross country, and gathered enough points to enable them to claim first place. Their combination of Miller and Gewertz was sure poison to the regular varsity men during all the runs. The sophomores showed their persistency by getting enough digits to claim second place points. At the end of the cross country races the juniors, sophomores and freshmen were pretty well bunched up at the head of the point column.

The sophomores, tired of getting second places, staged a comeback in track, surprising both themselves and the college by taking a hotly contested meet. This meet was the closest interclass battle staged in years and it was the multitude of seconds and thirds that enabled the second year men to finally grab the meet. The frosh showed up especially well in the competition and promised the varsity some real material when the 1926 roll-call is sounded.

After everything was over in basketball it was found that the juniors had again taken the lead by getting first. The usual crowds that attended the intramural games were absent from these contests and the games were for that reason not quite so spectacular as they would have been had their been encouragement from the balcony.

The junior waterdogs made it all wet for the rest of the college and won the intramural swimming championship. The results of the meet left the juniors still in possession of first place with the sophomores within striking distance.

At the time of writing there are still baseball and the minor sports to be run off. The juniors, sophomores and freshmen are so bunched that a win in baseball along with a clean sweep in two of the minor sports will mean intramural championship for the winning class. The minor sports to be contested are handball, tennis, wrestling and boxing.

Besides the different interclass struggles a great deal of enthusiasm was expended on the basketball leagues. After a season of ups and downs the Dormenians finally vanquished the Civils for the championship of the Independents and the Pharos took over the championship of the Fraternities. In the play-off for the college championship the Pharos showed well and played the Dormenians to a stand still. The attendance at the games was greater than ever before and the brand of playing certainly justified the enthusiasm.

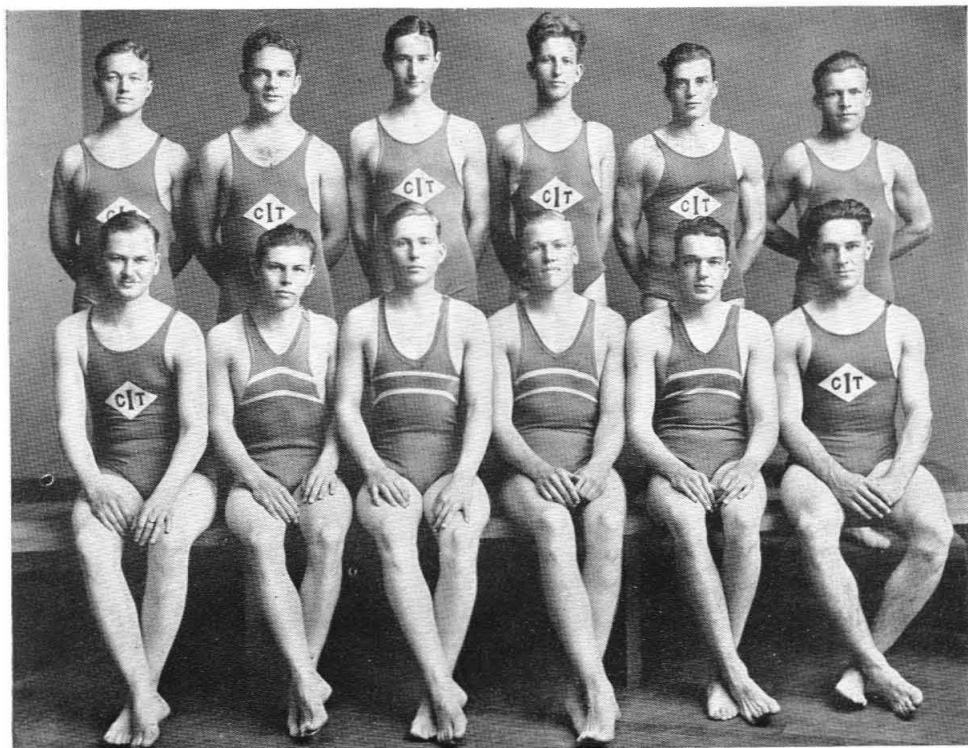
The T Big G

MINOR



SPORTS

VARSITY SWIMMING



VAN DEN AKKER
THOMPSON

BALL
FISHER

BOYD
MATSON

BURKE
WARD

FARLY
BUXTON

LOVE
EDWARDS

This year's swimming team, coached and captained by Joe Matson, had excellent prospects before the season began, of taking the conference championship for the sixth straight year. However, the loss of Bryan and Wingfield, and the death of Lohse left the team in a bad way as far as the championship was concerned. This year competition has been much keener than in past years, due to the vast improvement in the swimming ranks of the Conference Colleges. In spite of this, Tech made an excellent showing by taking second place in the Conference ratings for the season.

Farly, Van den Akker, Ward.....	50 and 100 yard dashes
Ward, Fischer, Boyd, Buxton.....	220 and 440 yards
Matson, Bidwell, Atherton.....	Backstroke
Edwards, Van den Akker, Bogen.....	Breast stroke
Thompson, Ball, Wienland, Macfarlane, Matson.....	Plunge
Matson, Farley	Dives

one hundred forty-six

SWIMMING MEETS

TECH vs U. S. C.

Two early season meets were held with U. S. C. in the Pasadena High School plunge. Both meets ended with practically the same score, and to summarize one is sufficient. For Tech, Ward was high point man, taking first in the 100 and 220 yard dashes in good time. Matson took second in the dives and backstroke. Fisher and Boyd annexed four points in the 440. Van den Akker, Thompson, and Edwards accounted for thirds in the 50, plunge and breast stroke respectively. Tech won the relay. On counting up the score U. S. C. had 45 to 32 points for Tech.

TECH vs U. C. S. B.

The first conference meet proved a big upset for Tech when the Branch took the high end of a 54 to 23 score. Ward again was high point man for Tech, with firsts in the 100 and 220 yards. Matson won the back-stroke and took second in the dives. Fisher took second in the 440. Thompson with his third in the plunge, and Van den Akker with his third in the breast stroke, completed Tech's score.

TECH vs POMONA

In the second conference meet, Tech travelled to Pomona and handed them a 41 to 36 beating. Ward and Fisher grabbed first and second in the 220. Ward added 5 more points by taking the 100. Joe Matson was high point man with firsts in the back stroke and plunge, and second in the dives. Bogen and Van den Akker added 4 points in the breast stroke. Fisher took first in the 440, with Buxton third. Tech finally won the relay, and with it the meet.

CONFERENCE MEET

The dope was not upset in the conference swimming meet held at Brookside Park, Pasadena. Southern Branch won the meet with 39 points, Cal Tech got second with 20 points, Pomona, third with 19 points and Oxy took the cellar, with 5 points. Swimming in good form, Ward won the 100 and 220 yards, while Fisher took the 440 in good time for Tech. Thompson added three points in the plunge, and Matson took third in the backstroke. Tech clinched second place in the meet by grabbing third place in the relay, beating Pomona by one point.

FRESHMAN SWIMMING



BERRY
JACOBSON

PETERMAN
GRIMES

MATSON
CROSER

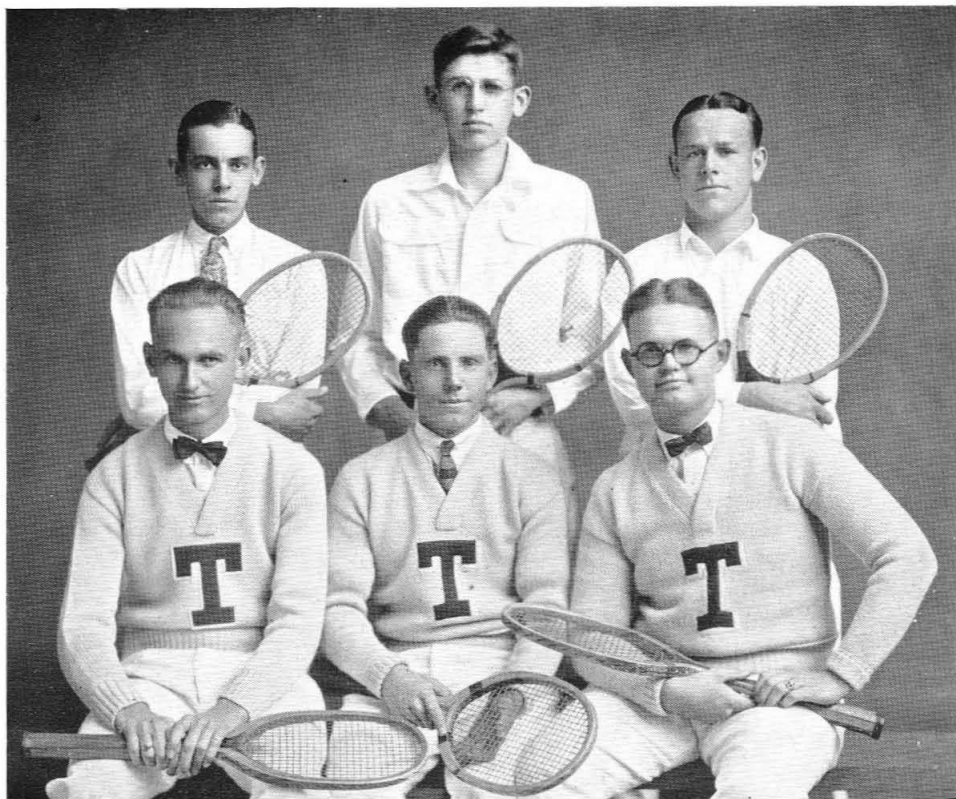
ROBINSON
SHEPLEY

LEWIS
WEEGO

The freshmen class always succeeds in developing a representative swimming team, although outside tanks have to be used. In the Tech-U. S. C. meets the frosh entered a relay team composed of Croser, Jacobson, Peterman, and Berry, with Grimes as alternate, that showed up well compared to the varsity. In spite of this showing the Branch Frosh upset them in their first meet with a strong well-rounded team. Kenny Croser, manager of the team, won first place in the 50 yards, and third in the 220 yards. Jacobson got third in the 100 yards and Shepley, third in the 440. Grimes showed well in the backstroke when he won first place. Lewis got second in the plunge and Robinson added another point by getting third in the breast stroke.

Although the frosh did not manage to win the conference this year, their showing was very good considering the inexperienced material on which the team was built. With a season's training, next year the men will all be valuable on the varsity, and will help bring back the championship.

TENNIS



ROSS
RANNEY

ADAMS
PARKER

BURRELL
SHEFFIELD

The Tech tennis team emerged from the 1925 conference season in fourth place. Although four of last year's men—Ranney, Sheffield, Adams and Parker were back, they did not seem to be able to keep up the winning streak they started by defeating Oxy in the first meet.

The squad was chosen, as has been the custom heretofore, by an elimination tournament, followed by a round robin. The purpose of the latter was to give to those men who were defeated by the players in the finals another chance to make the first string, for if a man defeated a member of the squad, he was able to replace the latter in the subsequent meets. The ratings of the first eight men at the beginning of the season were in the following order: Parker, Ranney, Adams, Sheffield, Ross, Burrell, Gunning and Lewis. Practice meets were held with La Verne, U. S. C. and the U. S. C. Dentals.

At the end of the season the Branch was victor, having won every meet. Redlands, Pomona, Tech, Oxy and Whittier followed in the order named. Redlands rose from her lowly position of last year, being defeated only by the Grizzly squad this year. Pomona, as well as any opponents who met her at home, was handicapped in having only one concrete court. She won decisive battles against Tech, Whittier and Oxy this season however. Oxy's only win was from Whittier, who failed to come out ahead during the entire season.

MATCHES

CALTECH VS. OXY.

The Beavers upset all the dope and handed everybody, including themselves, a surprise by winning the first meet of the season from Oxy by a 4-3 score. Ranney and Ross lost first doubles, but Adams and Parker took the second. Burrell and Ranney won their singles, while Adams lost his, leaving the decisive match to Ross. His steady playing proved to be better than that of his opponent, for he took the match 6-2, 6-3, giving Tech the tournament.

CALTECH VS. POMONA

The Sagehens managed to send the Beaver net artists home with the wrong end of a 6-0 score. Pomona's team was superior in that the men could shift from one position to another without any difficulty. Parker and Ranney put up a hard fight for first doubles, but they were finally outdone. Burrell and Adams were more easily conquered in the second doubles. Parker, Burrell and Ross put up good fights for the singles matches, but failed to chalk up wins. The other singles match was not played.

CALTECH VS. U. C. S. B.

The Branch left the Tournament Park courts with every point that it is possible to get in one meet. As the Grizzly team was conceded to have been the strongest aggregation of racketers in the conference, the 7-0 win was not entirely unwarranted. Ranney and Parker played first doubles, Ross and Burrell second doubles, and Parker, Ranney, Sheffield and Ross the singles matches. Sheffield offered the most competition in the singles but he was considerably hindered by a crippled arm.

CALTECH VS. REDLANDS

Redlands encountered considerable difficulty in annexing her meet, but finally finished with the large end of a 5-2 tally. The first doubles was a three set affair, Ranney and Parker, however, suffering defeat. In the second doubles the first set ended with Burrell and Sheffield the winners by a 10-8 count, then they took the match by winning the second set 6-1. Parker, Ranney, Ross and Burrell played the singles, Ross being the only victor.



FRESHMAN TENNIS



CHILBERG

GRAMATKY
LOMBARD

HISSERICK THOMPSON
FOSTER

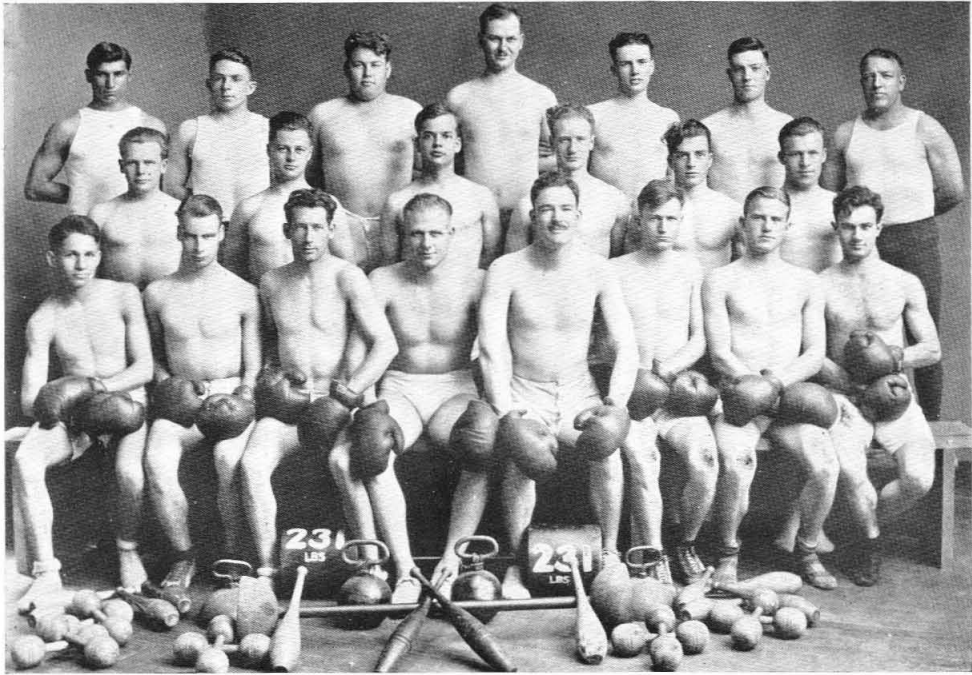
The frosh tennis squad was selected by an elimination tournament and a round robin, much in the same way as the varsity. The frosh showed the interest they take in even the minor sports by participating thirty strong in the tryouts.

The last minute information concerning the ratings of the four highest men was: Chilberg, first; Thompson, second; Gramatky, third, and Lawrence Foster, fourth. The men next in line were: Lombard, Pohl, Holloway, Lash and Hisserick. They all gave promise of making the high men work to keep their positions throuth the season.

A meet with the Pasadena Junior College ended disastrously, Chilberg being the only one of the yearlings to hold his own. The chief criticism was the one that usually falls to a frosh athletic team—lack of teamwork. They did not seem to pull together in the doubles.

The first conference meet was with the Redlands frosh. The men showed considerable improvement over their preceding display altho they did not win any matches. They held both doubles oppositions to 8-6 scores. No doubt the end of the season will show them to have made enough improvement to be on the right end of several meets.

BOXING AND WRESTLING



ASST. COACH CUNNINGHAM	LEWIS	THOMPSON	SPEHLING	KNUPP	GRIFFITH
WARD	RODGERS	MOORE	HASEROT	FARLY	LOVE
GEWERTZ	ANDERSON	HALL	PETERMAN	DINSMORE	JACOBSON
			NEWTON		JONES

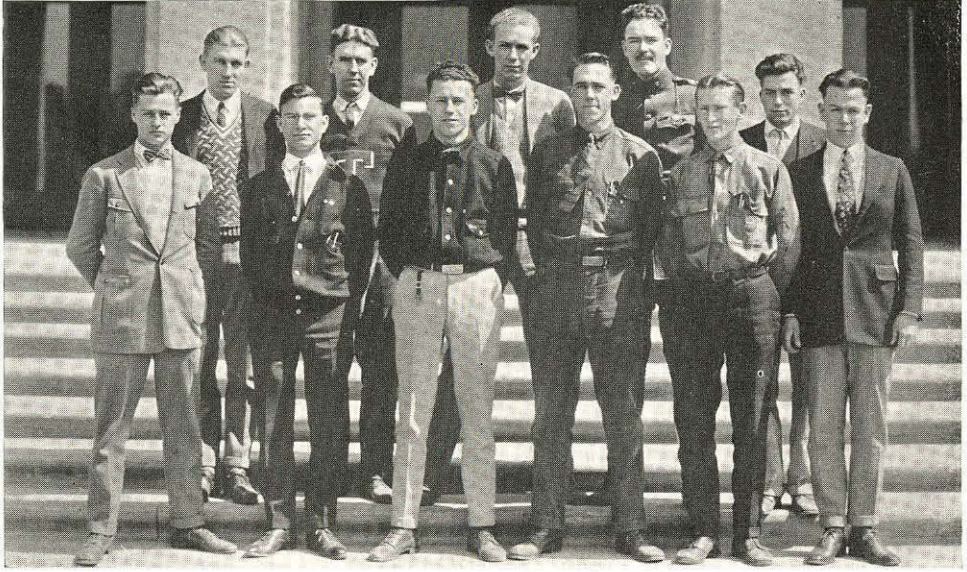
Under the guidance of Harry Cunningham the Engineer leather pushers had quite a strenuous season. Several pleasing entertainments were put on for the student body and several outside colleges were met.

The turnout this year was very consistent and the material was of the best variety. As usual the freshmen and sophomores headed the enrollment list and the grudge fights put on by these men were one of the bright spots in the sport.

Early in March the combined squads of boxing and wrestling put on a show that drew quite a crowd. In the boxing end there were bouts between Kirkeby and Sperling, at 142 pounds, Schott and Hall, at 130 pounds, Moore and Newton, at 165 pounds, and Jacobson and Gewertz, at 128 pounds. The best bout of the evening was demonstrated by the last pair who put on a clean fast match. Besides this Coach Griffin put his crew of wrestlers on exhibition for the first time. There were four bouts between Dodge and Farly, Love and Haserot, Rodgers and Moore, and Lewis and Wallace. The fights were all well received.

The boxing crew, at the time of writing, had not met any conference teams, but were full of promises that meant bad tidings for any they might meet.

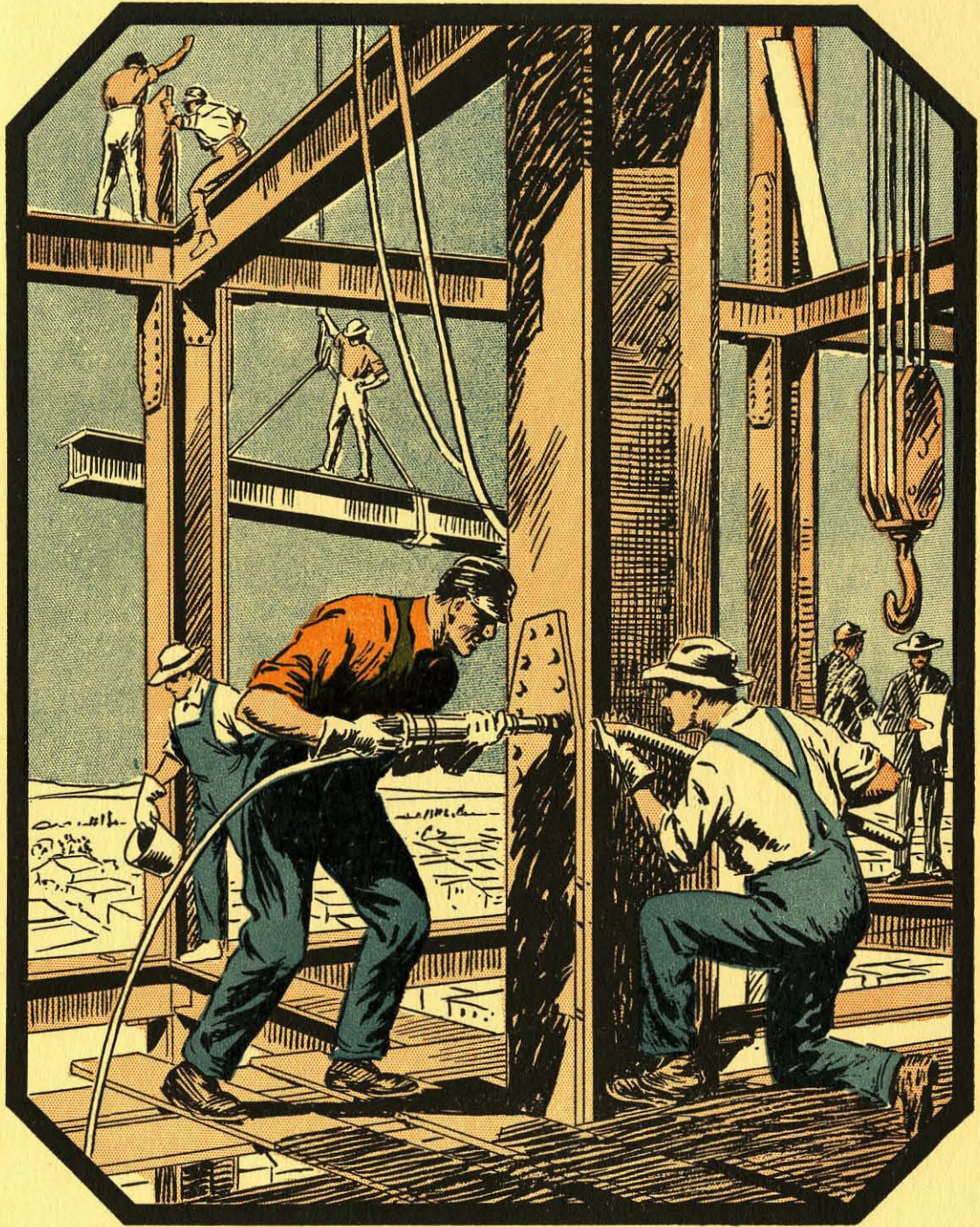
RIFLE TEAM



Left to right: RODGERS, KROUSER, JAEGER, LARABEE, GUNNING, NORDQUIST, TRIGGS, NEWTON, LARSON, FARLY, RIGGS.

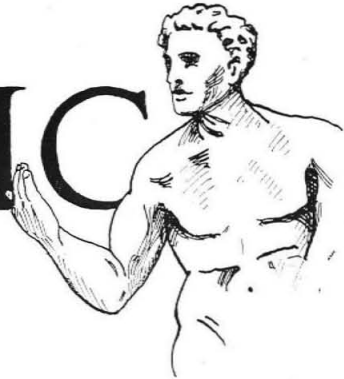
Under the capable guidance of George Kaye, president, and Rodgers, manager, the rifle club has enjoyed a very successful season. For the first time in its history, the rifle club has a definite status in connection with the student body, since an amendment was passed last year that made rifle shooting a minor sport. The team that represents Tech in the matches is picked on the following basis: Each member shoots one or more targets every week, and those having the highest average make the team. The military department is largely responsible for the success of the club as it furnishes the members with fire arms, ammunition, and the use of the range.

Every year a rifle match is held by the Ninth Corps Area of all colleges in the west. The team that represented Caltech made a very good showing by taking fifth place, being beaten only by Oregon Argicultural College, Southern Branch, Pomona and Montana. In a Triangular match with Pomona and the Branch, the Tech score was very high, as was the case in the N. R. A. and College shoots.

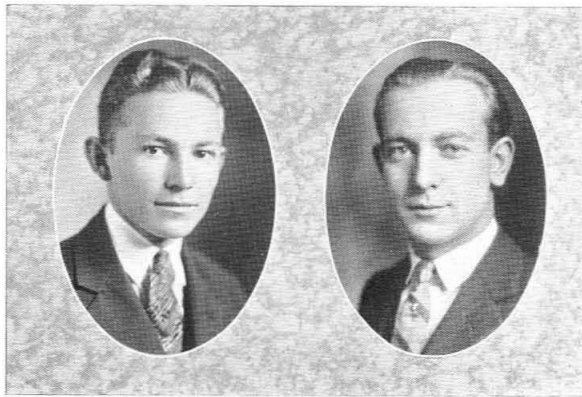


ACTIVITIES

FORENSIC



ORATORY



COLEMAN

FOSTER

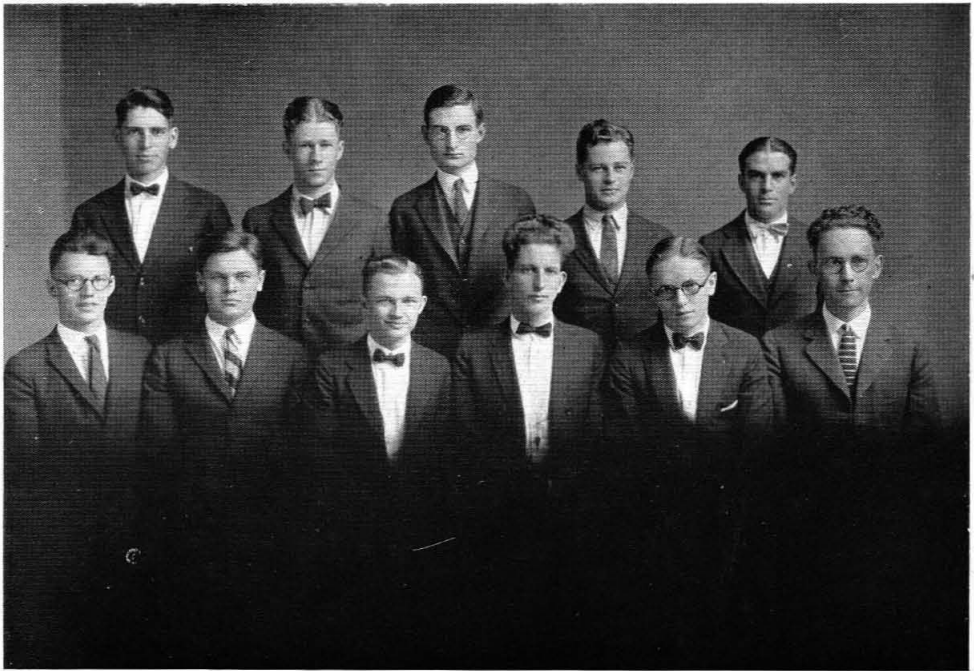
Two men ably represented C. I. T. in the oratorical field during the past year. Ted Coleman, in oratory, and Ward Foster, in extempore, did splendid work for the college and never failed to make strong bids for first honors. Due to the efforts of these two men, Caltech has been able to maintain a prominent place among the colleges of the conference.

The first contest of the year was the Conference Extemporaneous Speaking Contest held at Whittier in December. C. I. T. was represented by Ward Foster, who placed third with a very forceful and convincing speech.

There were two oratorical contests during the year. The first was the Southern California Intercollegiate Peace Contest held at Occidental on April 16. Ted Coleman, representing C. I. T., was rated first by two judges, but due to a low grade from the other, he placed among the seven contestants. On April 24, Coleman again represented Tech in the third annual Conference Oratorical Contest held in Los Angeles. Here again fortune frowned, and he took third place.

Both Coleman and Foster will be back next year, and it is to be expected that the experience they gained this year will serve to garner laurels in the future.

DEBATING



BELKNAP WALKER ROSS RODGERS GILMORE
CASE STANTON BOWER BURKE FULWIDER THAYER

LOOKING back over the forensic season of 1924-25, Caltech is proud of the work its debaters have done. At the end of a season in which few debates were won this statement may seem forced. It is customary for a loser to apologize for his record, to offer alibis and excuses and promise victories for the future; but such nonsense is unnecessary, for Tech has every reason to be proud of its debaters.

Forensic work at C. I. T. presents a peculiarly difficult problem inasmuch as none of the students pursue liberal courses. All men follow engineering courses which afford no forensic training and allow almost no time for outside forensic work. Men of great natural talent in this field are seldom attracted to C. I. T., so it is consequently very difficult for Tech to compete with other colleges. In spite of this handicap, Tech has always adopted an extensive forensic program, and has always acquitted itself with honor.

The Institute's success in forensic work can not be judged by the proportion of debates won. A far better criterion is the number of men actually participating in the work, from this standpoint the season has been most auspicious. Over thirty men did serious work on the varsity debate squad during the season—the largest number in the history of forensics at the college. Although not all these men stayed with the squad throughout the season, the fact that they did come out is strong indication of the growing interest in college forensics among the students.

Much of this interest can be attributed to the enthusiasm and support of Mr. Stanley Pargellis and Mr. Paul Emmett, who devoted a great deal of time to the training of the debaters. All men who engaged in debate work profited not only from valuable experience they received, but also from their intimate contact with these men.

The following is a summary of the debates of the season:

The proposition for debate during the conference season was:
Resolved: That the Immigration Act of 1924 be amended to admit Japanese upon the same basis as Europeans.

Feb. 12. At C. I. T., Oxy aff. won from W. D. Foster and E. R. Gilmore.
At U. C. L. A., U. C. neg. won from M. F. Burke and M. M. Bower.

Feb. 26. At C. I. T., Pomona neg. won from R. W. Fulwider and J. H. Walker.

At U. S. C., U. S. C. aff. won from R. T. Ross and W. D. Foster.

Mar. 5. At C. I. T., J. H. Helms and K. A. Belknap won from LaVerne neg.
At LaV., LaVerne aff. won from L. Stanton and J. H. Case.

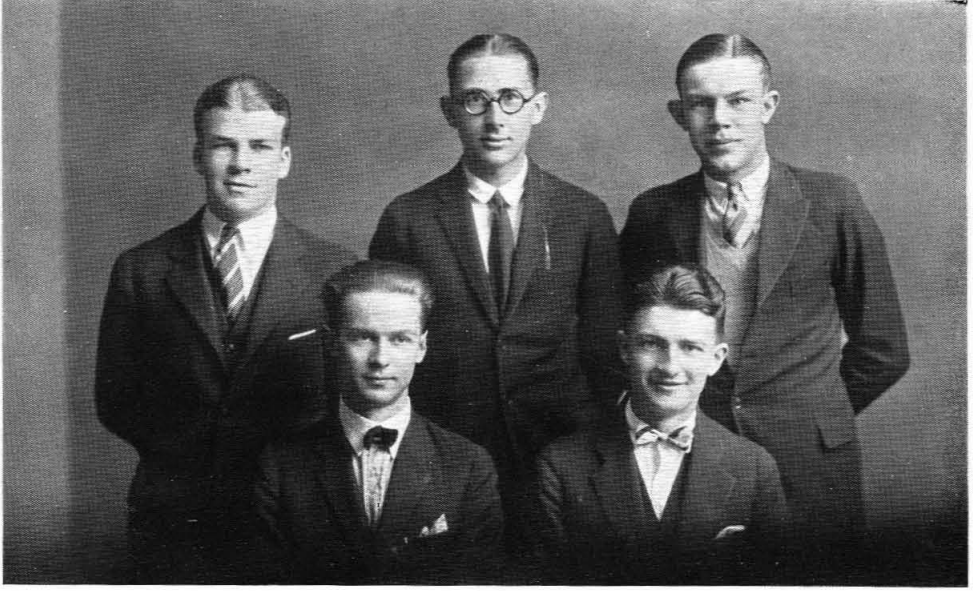
Mar. 10. At C. I. T., L. Stanton and J. H. Case won from Pasadena College aff.

Mar. 12. At C. I. T., Whittier neg. won from E. F. Thayer and J. H. Walker.
At Reds., Redlands aff. won from W. D. Foster and E. R. Gilmore.

Mar. 23. W. D. Foster and E. R. Gilmore won from Stanford aff. by audience decision.



FRESHMAN DEBATING



CHILBERG

ROBINSON

SCHROTER

EVANS

ROBINSON

A LARGE number of good men appeared in freshman debate work during the past season. One pre-season debate was taken up in addition to the regular schedule, and at all times an active interest in the work was evidenced. The men who came out for freshman debating did remarkably well; it is to be hoped that they all will be out to add to the glory of the varsity squad in the future. The men who formed the frosh squad were W. L. Berry, G. L. Chilberg, K. H. Robinson, T. W. Robinson, G. A. Schroter, J. W. Schweinfest, and H. E. Sweeting.

The following were the debates taken up:

Nov. 12: Resolved, That the United States should now join the League of Nations.

At C. I. T., W. L. Berry and G. L. Chilberg won from Fullerton J. C., neg.

At F. J. C., Fullerton J. C., aff., won from G. A. Schroter and T. W. Robinson.
(Audience decisions).

Resolved: That the California syndicalism law should be repealed.

Apr. 30. At C. I. T., Redlands neg. vs C. I. T. aff.

At Whittier, Whittier aff. vs. C. I. T. neg.

May 7. At C. I. T., Pomona aff. vs. C. I. T. neg.

At L. A., U. C. L. A. vs. C. I. T. aff.



DRAMATIC

PHORMIO

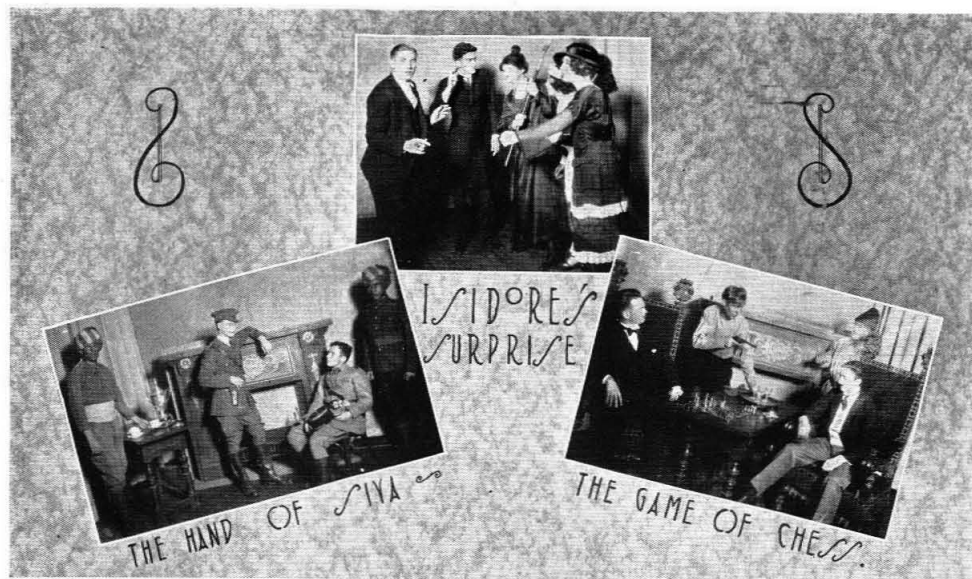
THE success accorded the Greek play, "Philoctetes", given last year by the California Gamma Chapter of Pi Kappa Delta, encouraged a repetition of classic drama this year, and the Latin comedy "Phormio" was chosen as the offering best suited to Tech talent and Tech audiences.

The play, written by Terence in the times of Cicero, was given at Culbertson Hall and at the South Pasadena High School and the success it achieved demonstrated beyond a doubt that engineers are not always lacking in dramatic talent. Unlike Philoctetes, the play was quite comical and full of human interest, being based on very modern situations. The two feminine characters called for in the cast were ably represented by Jack Fahs and Harold Sheffield, who provoked more than the usual laughter accorded female impersonators. The other characterizations were also excellently done and so well balanced was the cast that no one person could be said to be the outstanding star of the performance.

Too much credit cannot be given to Dr. Macarthur and Mr. Ogier for their splendid coaching, the results of which were so noticeable throughout the play. It is to be hoped that Pi Kappa Delta will make such a production an annual event.

- Prologue, Ted Coleman
- Davos, a slave, Bill Lewis
- Geta, a slave of Demipho, Joe Walker.
- Antipho, son of Demipho, Jack Helms.
- Phaedria, son of Chremes, Richard Pomeroy.
- Demipho, an old man, Allan Morrison.
- Phormio, a parasite, Edwin Thayer.
- Hegio, advisor to Demipho, Keith Wilson.
- Cratinus, advisor to Demipho, Sydney Duncan.
- Dorio, a slave trader, Robert Fulwider.
- Chremes, Demipho's brother, Fred Peterson.
- Sophrona, an old nurse, Jack Fahs.
- Nausistrata, wife of Chremes, Harold Sheffield.
- General Manager, Wayne Rodgers.
- Assistants, Ed Thayer, Bill Lewis.
- Scenery, Al Newton, Sydney Duncan.





THE ENGLISH CLUB PLAYS

Sponsored by Professor MacMinn, the English Club was created this year for the purpose of producing an evening of one act plays. "The Hand of Siva," "The Game of Chess" and "Isidore's Surprise," were presented on the 17th and 18th of April. The last play, a comedy, was translated from the French by Harold Sheffield, who also took a part in the cast. Casts for the plays were as follows:

The Game of Chess

Alexis Alexandrovitch—Howard Sweeting.
Constantine—James Moore.
Boris Nicholas Shamreyeff—John Michelmore.
Footman—John Stuart Campbell.

Isidore's Surprise

Isidore—Ed. Kinsey.
Adolphe—L. P. Henderson.
His wife—George Weego.
Mme. Duval—Harold Sheffield.
A maid—Burt Beverly.

The Hand of Siva

Captain Ashby—Bill Aultman.
Captain Durot—Frey Hamburger.
Major Wellington—Lars Thomassen.
Sudidar Kodah Kahn—Ray St. Clair.
Mahib, a native orderly—Davis Shuster.

General Manager—Ted Coleman.
Advisors—Al Newton, Ernst Maag.
Stage Manager—George Clapp.
Business Manager—Wayne Rodgers.
Properties—Jake Voelker.
Electrician—Gilbert McProud.
Publicity—Robert Bowman.
Drums—Robley Evans.



THE GLEE CLUB

OFFICERS OF THE CLUB

- Mr. Walter W. Ogier, Jr. Director
Mr. Markham E. Salisbury President
Mr. John E. Michelmores Manager
Mr. Paul E. Noll Accompanist
Mr. Conrad Waller Librarian

PERSONNEL OF THE CLUB

FIRST TENORS

- Walter Bryant, '25
James Carter, '26
John Michelmores, '26
Conrad Waller, '25
George Weego, '28

SECOND TENORS

- Evans Bunker, '28
Ted Coleman, '26
Sydney Duncan, '25
Donald Hinkston, '26
Herbert Jones, '25

FIRST BASSES

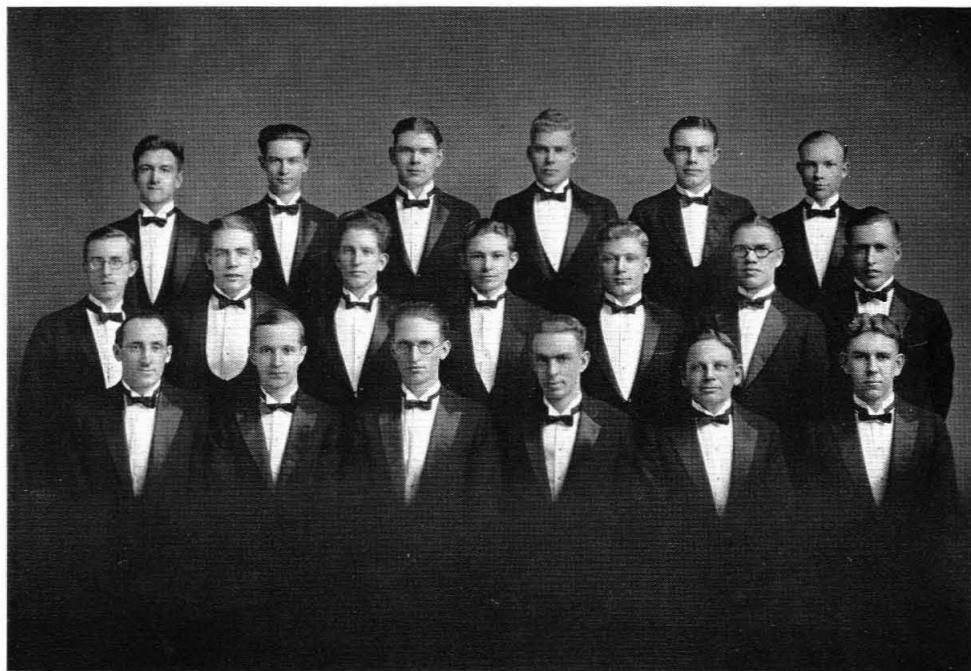
- David Bogen, '27
Maxwell Burke, '27
Robley Evans, '28
Felix Fricker, '26
True Robinson, '28
Markham Salisbury, '25

SECOND BASSES

- Josef Johnson, '27
Seymour Larabee, '25
Glenwood MacLane, '28
William Olsen, '27
Kenneth Robinson, '28

QUARTET

- J. E. Michelmores, First Tenor
S. F. Duncan, Second Tenor
M. E. Salisbury, First Bass
G. L. MacLane, Jr., Second Bass



BRYANT	ROBINSON	BUNKER	OLSEN	ROBINSON	NOLL
CARTER	WEEGO	COLEMAN	FRICKER	MACLANE	JONES
HINKSTON	MICHELMORE	DUNCAN	SALSBURY	WALLER	LARABEE

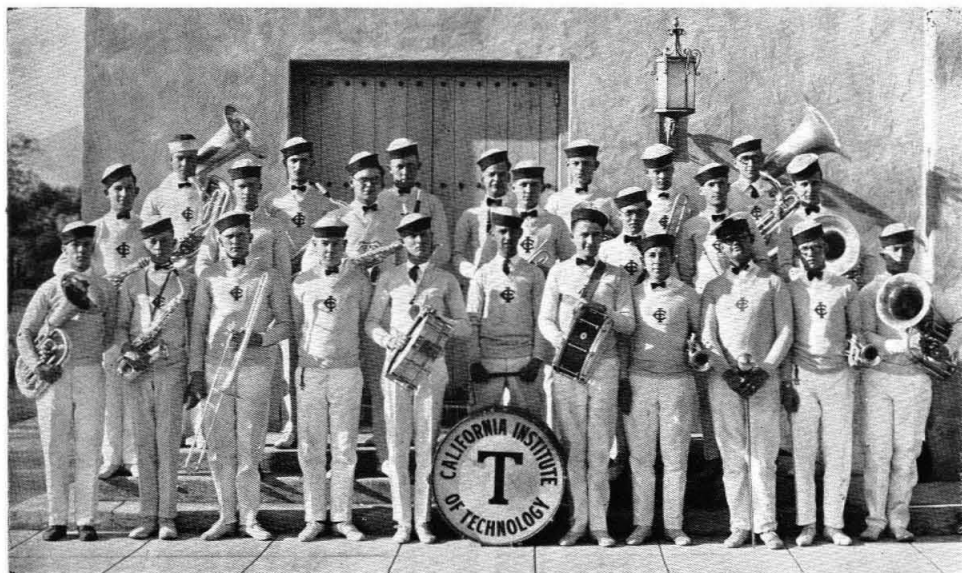
With the return of a large number of last year's members the Glee Club began its record breaking season. Its brilliant success was only attained through the co-operation of the members in attending rehearsals regularly twice weekly throughout the year and incessant efforts of director Walter W. Ogier Jr.

The club developed an unusual repertoire, the selections varying from heavy pieces like *The Lord Dunderburg* to humorous ones like *the Big Brown Bear* and *Red Noses*. Theodore Coleman's readings were always pleasing and the saxophone solos given by Dwight Degnan were always greeted by a heavy applause. John Michelmores invariably made a great hit with his lyric tenor solos.

Undoubtedly the busiest part of the glee club was the quartet which sang almost every week at some meeting in or near Pasadena. The concerts given by the quartet besides those in conjunction with the Glee Club were Dr. Milikan's reception at the Maryland Hotel, Pomona Hi-Y club, A.S.C.E., Los Angeles section, Pasadena Realty Board, G.A.R. of Pasadena, Men's Club of the Pasadena Presbyterian Church, South Pasadena High School with the presentation of "Phormio," Cosmopolitan Dinner, Tech Nite at the Raymond, Broadcasting station KNX, The Jefferson School in Pasadena, and several after the annual had gone to press.

Concerts by the Glee Club were given in Culbertson Hall, Pasadena Christian Church, the Congregational Church, broadcasting station KNX, Broadoaks, Occidental College exchange concert, and a concert in conjunction with the Tech band in the Pasadena High School Auditorium.

THE BAND



OLSEN HART WESTLUND MOORE SCHUSTER ROBINSON SCHROTER
 RALSTON WALKER BUNKER INGERSOLL LORD GAZIN MICHELMORE
 WATSON SCHELL PETERSON RIGGS HOUSTON PERRY EVANS BILLIG SHEFFIELD CASE BALL

This year the band has proved itself to be one of the most active organizations on the campus. Under the leadership of student director Dwight Degnan and Mr. Alexander Smith of the Boston Conservatory of Music, a well balanced organization has been developed from the few men that have time available to put in on this kind of work.

Besides playing at the battalion parades, the band has performed at many student functions. The fancy drills carried on at the Oxy and Branch games with the ultimate formation of a "T" was indicative of the amount of time spent in practice. Concerts were given at the Strand Theatre, Pasadena Community Chest Workers dinner, the High School auditorium in conjunction with the Tech glee club, and celebration of the annual music week. A brilliant showing was made in the Tournament of Roses Parade and in the annual music contest held in Los Angeles.

One of the features was the drum trio consisting of Harris Cloyes, Robley Evans, and Harold Huston. Their well synchronized performance will be long remembered by those hearing them.

PERSONNEL

Music Coach.....Mr. Alexander Smith
DirectorDwight Degnan
ManagerHerbert V. Ingersoll
Drum MajorHarold C. Sheffield
LibrarianHarold W. Lord

TROMBONES

Thurman S. Peterson, '27
 Donald C. Netz, '28
 True W. Robinson, '28

CLARINETS

Harold W. Lord, '26
 John E. Marsland, '27
 Bernard N. Moore, '27
 Karl W. Westlund, '27

BASSES

Alpheus M. Ball, '26
 John E. Michelmore, '26
 William L. Olsen, '27
 George A. Schroter, '28

FLUTE

Joseph H. Walker, '25

DRUMS

Robley D. Evans, '28
 F. Harris Cloyes, '27
 Harold M. Huston, '28
 H. L. Chaffee, '26 (First term)

CORNETS

Donald S. Stone, '26
 Herbert V. Ingersoll, '26
 John G. Case, '27
 Charles L. Gazin, '27
 Eugene H. Riggs, '27
 H. Ellsworth Billig, '28

SAXOPHONE

Edward W. Hart, '25
 Lee W. Ralston, '27
 Frederick T. Schell, '27
 W. H. Bloedel, '28 (First term)
 Evans C. Bunker, '28

ALTOS

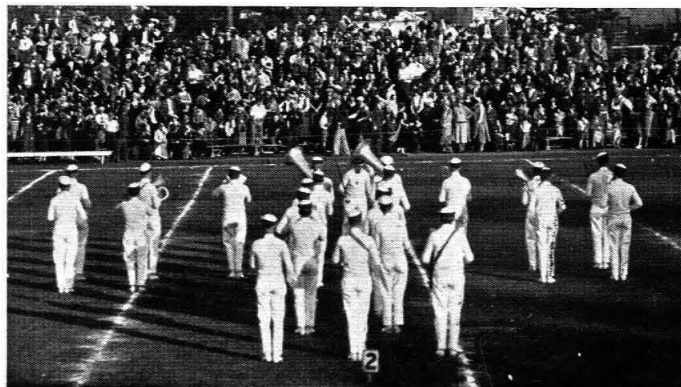
J. Davis Shuster, '27
 Percy E. Parker, '26
 R. Thacker, '26 (First term)
 B. B. Wisegarver, '26 (First term)

BARITONE

Ralph M. Watson, '27

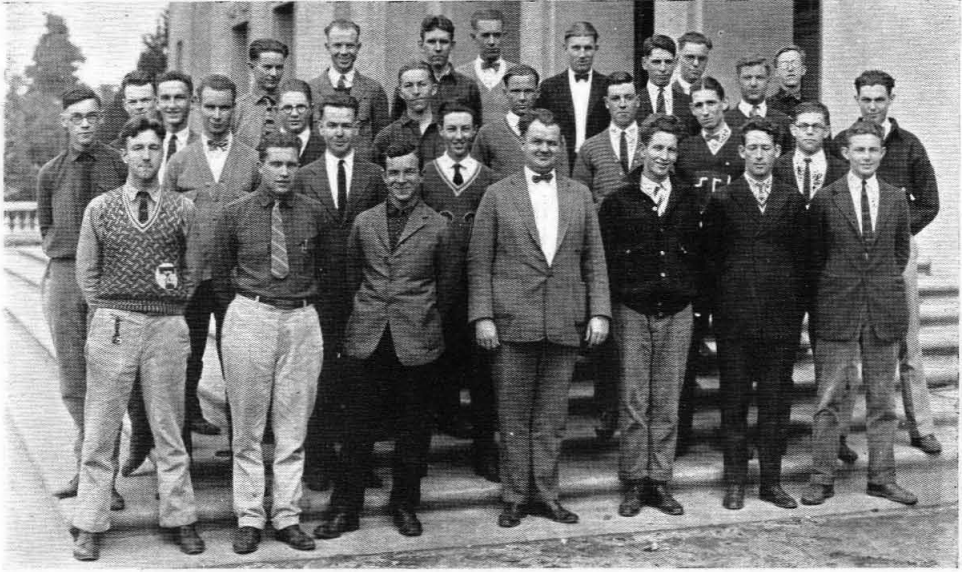
CYMBALS

Ray C. Perry, '27



The Big T

CHORUS



WITH the keen interest shown in musical activities, a number of men who wished to get together and sing, but did not have the opportunity to sing in the glee club, formed a chorus that was directed by Walter Ogier. They met twice weekly for practice and developed some very good harmony.

The officers elected at the beginning of the year were James E. Moore president, and Theodore Coleman, secretary. Eugene Riggs and Alfred Rummelsburg were the accompanists.

The secondary purpose of the chorus was to develop men for the glee club and for the possible production of a musical comedy, and to form a nucleus for harmony in the sings held in the student assemblies.

MEMBERS

W. W. Ogier, Director

Anderson
Belknap
Bowman
Bryant
Burke
Carter
Clapp

Coleman
Fisher
Fricker
Fry
Hall
Hamburger
Kiech

Knupp
Krouser
Larabee
Lily
Mason
Moore

Nestle
Noll
Nordquist
Reynolds
Riggs
Robinson
Schueler

THE STRAIGHT - EIGHT ORCHESTRA

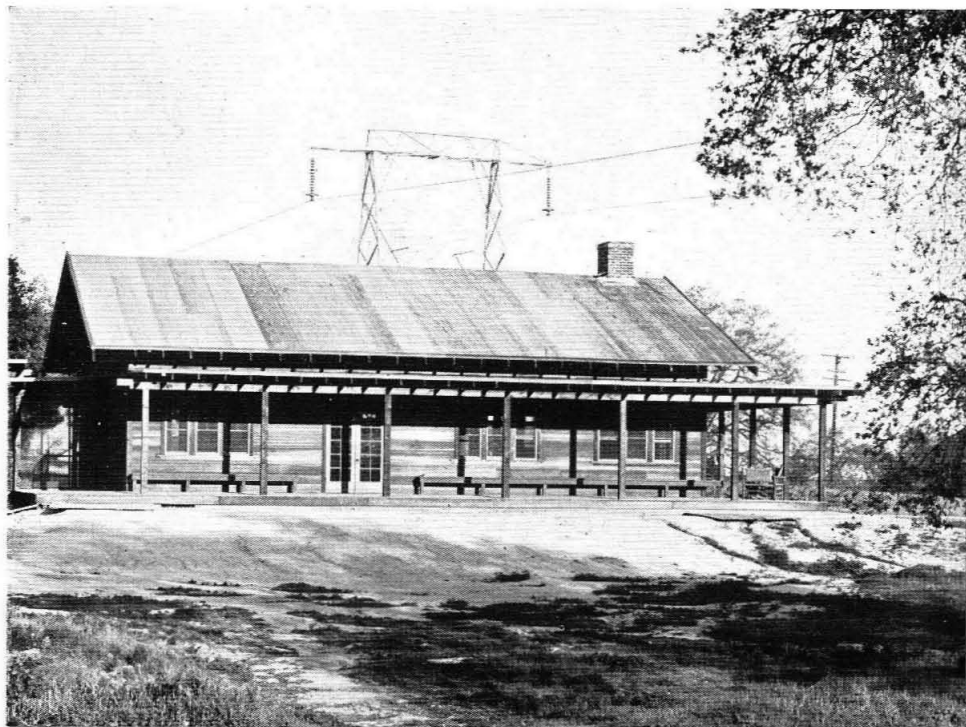


Left to right: BALL, HASEROT, RALSTON, EVANS, VAN DEN AKKER, STONE, WATSON, BAKER.

The Caltech Straight Eight Orchestra, in the second year of its existence at the college, enjoyed a most successful and popular season. The music was of the popular sort and served to enliven student assemblies and rallies. Under the leadership of Robley Evans, the orchestra presented a series of numbers at the Band and Glee Club concert, played in the Dugout and at Friday assemblies. The men playing were:

Robley Evans, '28, Drums.
Alpheus Ball, '26, Bass.
Jack Baker, '26, Banjo.
Donald Stone, '26, Cornet.
Clarence Haserot, '27, Saxophone.
Lee Ralston, '27, Saxophone.
Harvey Watson, '28, Trombone.
J. Van den Akker, 27, Piano.

THE DUGOUT



THE Dugout, although in its present form a recent development of campus life, fully justifies itself by its unfailing popularity as a recreational and social center.

The idea is not new, but goes back to the war days when Hambrook and Erb conducted a lunch counter on the campus under the same name. The first Dugout, although humble in itself, became the mighty center of student opinion and discussion. After its dissolution in 1921, agitation was at once started for another building to take its place. The ambitions of the workers for the cause were achieved when after three years the present building was erected through the courtesy of Mr. and Mrs. R. B. Blacker of the board of trustees.

Contributions were gratefully accepted from several commercial companies in Southern California and with this aid and a general subscription, the student body and faculty added a unique fireplace to the equipment of the building. All subscribers were sold bricks on which they carved their names, thus giving a really personal touch to the project. The hearthstone was presented by the faculty, the class of '24 furnished the bronze motto; the class of '25 the bronze T; The class of '26 the mantel with the carved beaver head supports; and the class of '27 supplied the andirons.

The popularity of the Dugout has never lessened. Not only does it do daily service for those who eat their noon repast on the campus, but it has also been the scene of many dances, dinners, and various other gatherings.

PUBLICATIONS



The California Tech

PUBLISHED EVERY WEDNESDAY DURING THE COLLEGE YEAR BY THE ASSOCIATED STUDENT BODY OF THE CALIFORNIA INSTITUTE OF TECHNOLOGY.
PASADENA, CALIFORNIA.

The California Tech is a member of the Southwestern Intercollegiate Press Ass'n.

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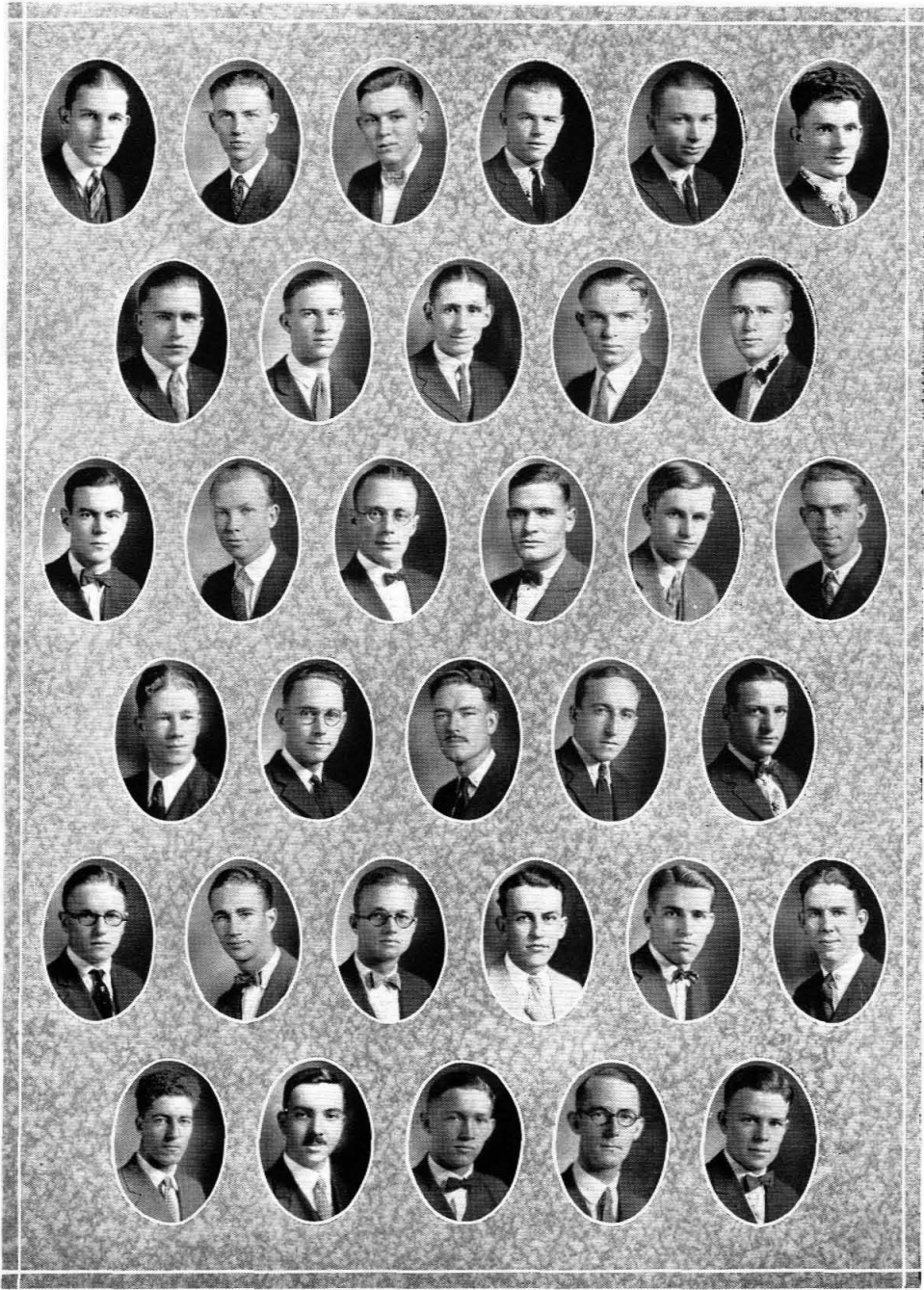
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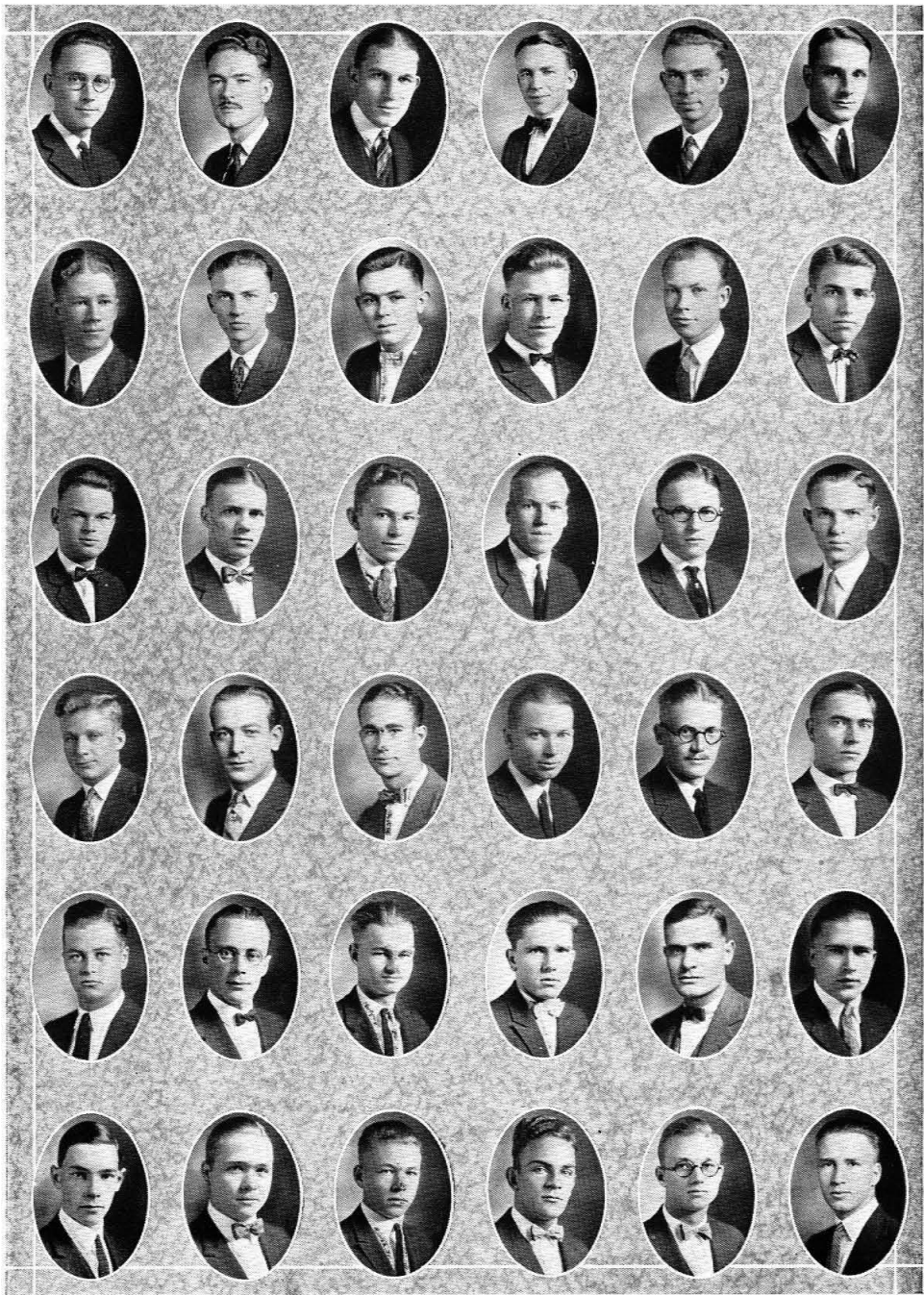
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A RESUME OF PUBLICATION

"The California Tech," the weekly newspaper, and "The Big T," the college annual, both published by the Associated Student Body, are of recent origin, being only five years old. They represent, however, not the start, but rather the outgrowth of a series of publications, which began with the "Polytechnic," a magazine sponsored by the students of the old co-educational school, Throop Polytechnic. This publication was discontinued in 1910, when the college moved to its present site.

In February, 1913, "The Throop Tech" made its appearance, and was issued as a quarterly until 1916, when it was changed to a monthly, although some issues were skipped as not enough copy accumulated to warrant getting out a number. The annual for these years consisted of the last monthly edition of the year, and was usually larger than the rest.

In 1919 the "Tech" became a weekly publication, and the annual became a separate publication. Interest has increased each year, and now one-fifth of the student body is actively engaged in work on either or both "The California Tech" and the "Big T."

WEEKLY PUBLICATIONS

"The Throop Tech"

1918-1919—The Throop Tech, three column four page, Douglas A. Stromsoe, Lester O. Warner. April-June, four column four page, Sinclair Smith, Wynne B. Mullin, Don McCreery.

1919-1920—Five column four page, Sinclair Smith, Wynne B. Mullin. February-June, Arthur J. Garfield.

"The California Tech"

1920-1921—Five column four page, Frederic A. Maurer, Charles W. Varney.

1921-1922—Five column four page, Charles W. Varney, Ben Benioff.

1922-1923—Five column four page, Max B. Alcorn, George I. Hickey.

1923-1924—Five column four and six pages, four special editions, Alfred A. Newton, Mike Brunner.

1924-1925—Five column eight pages, six special editions including exhibition number of twelve pages, largest ever published in history of Institute and complete with pictorial and sports section. First contests ever sponsored by the "Tech" resulted in new head for the paper, new C. I. T. windshield sticker, a list of grades of the faculty members, and an affirmative decision on the prohibition question. Caryl Krouser (editor) S. L. Seymour (manager).

The Throop Tech, enlarged edition of final monthly magazine.

1916—60 pages. Kenneth W. Rich (editor), Stanley C. Carnahan (manager).

ANNUALS

1917—55 pages. I. N. Lawson, Jr., Walter Ogier, Jr.

1918 (April)—80 pages. Frank R. Capra, Warren C. Mansar.

War, 1918 (September)—80 pages. Relta Alter, Joseph F. Hartley.

1919—80 pages. Gerald F. MacMullen, Kenneth C. Kingsley. First separate publication as an annual.

1920—The Orange and White, 180 pages. George O. Suman, Jr., Howard G. Vesper.

The Big T

1921—222 pages. Arthur J. Garfield, Jr., Manton M. Barnes.

1922—210 pages. Howard G. Vesper, Ray W. Preston.

1923—210 pages. George T. McKee, Oliver B. Scott.

1924—244 pages. F. Douglas Tellwright, John E. Maurer.

1925—274 pages. Edwin F. Thayer, Wallace C. Penfield.



MAJOR ADAMS

Department
of
Military Science
and
Tactics



LIEUT. GULLATT

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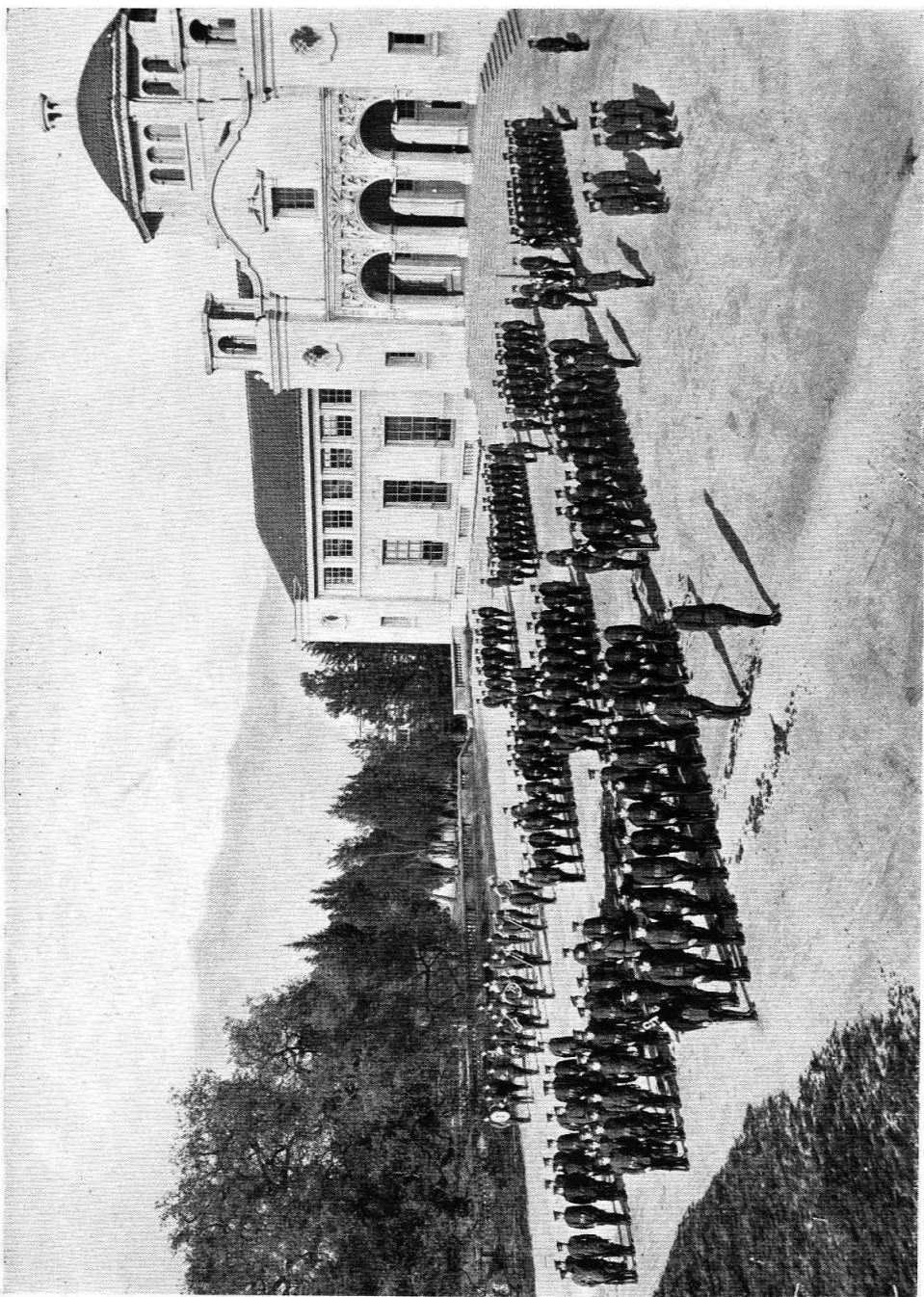
Marien H. DeGraff, Master Sergeant, Retired.

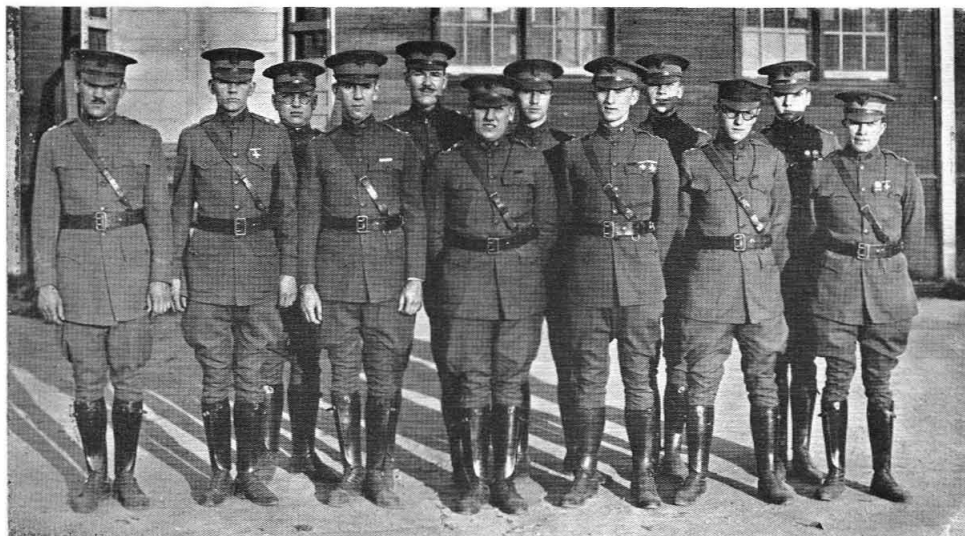


SGT. LARACY

SGT. DEGRAFF

SGT. BAILEY





Left to right: PAULUS, WILSON, STEWART, LARABEE, NEWTON, KINSEY, CHAPMAN, BRUNNER, NOLL, FULWIDER, McPROUD, BOWMAN.

CADET OFFICERS, 1924-25

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2nd. Lieut., E. D. STEWART

1st. Sgt., T. C. COLEMAN

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Captain, J. E. MOORE

1st. Lieuts., O. S. LARABEE AND G. S. PAULUS

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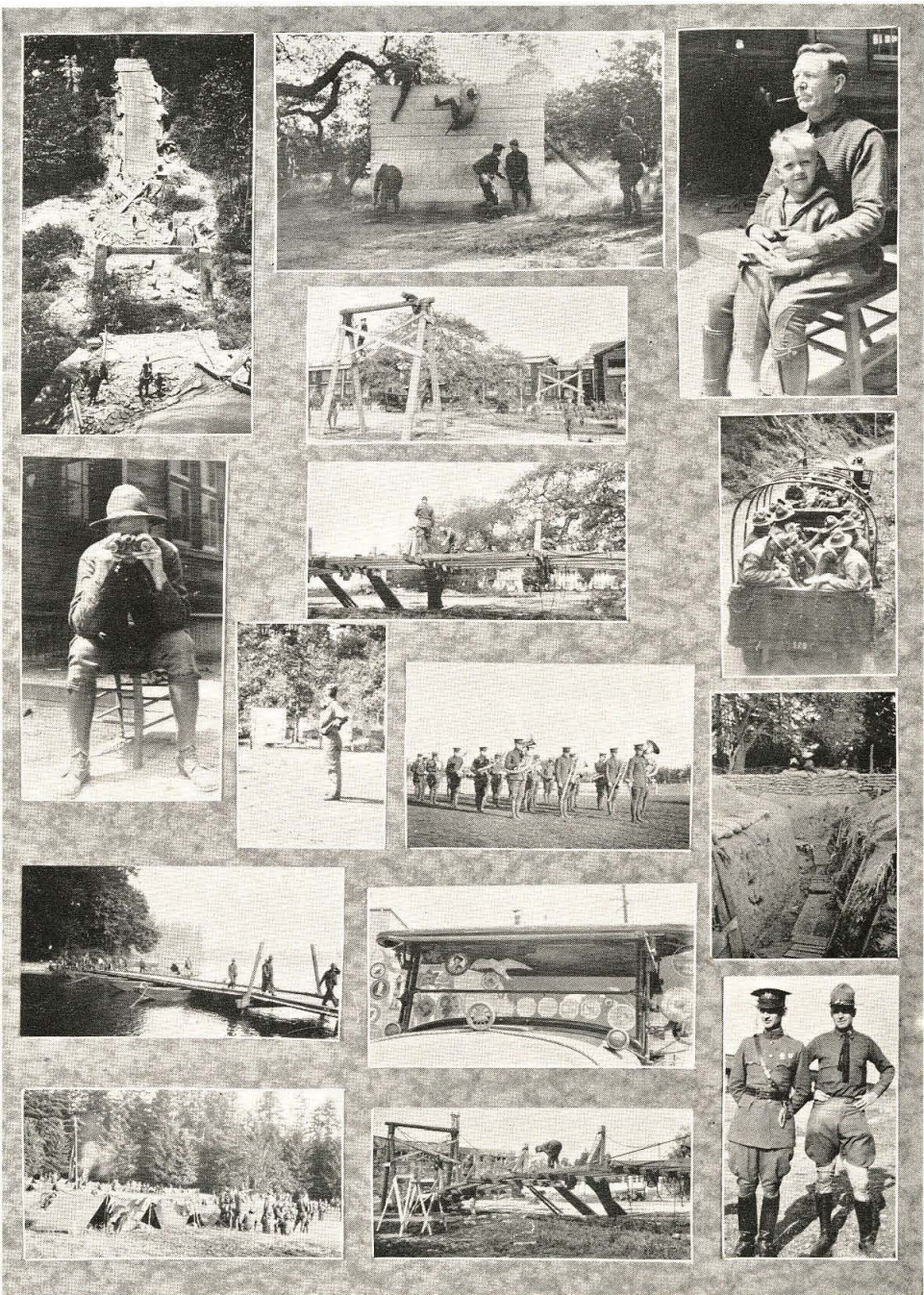
2nd. Lieut., R. E. BOWMAN

1st. Sgt., J. MATSON

AUTOMATIC WEAPON PLATOON

1st. Lieut., R. W. FULWIDER

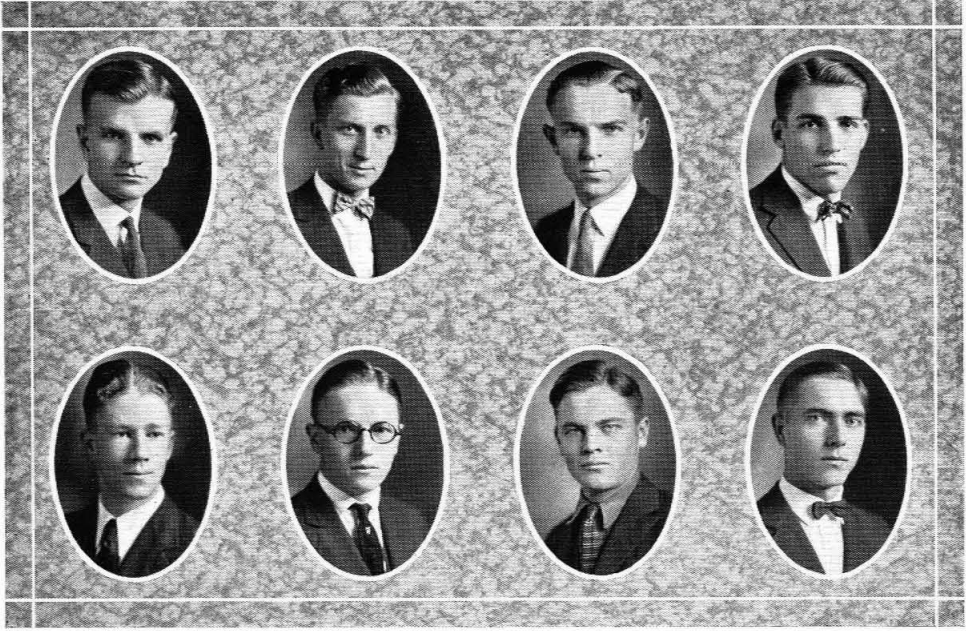
1st. Sgt., V. W. RODGERS





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WALKER

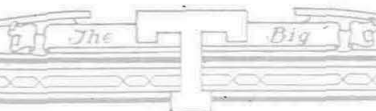
BRUNNER
FULWIDER

DILLON
STANTON

DIXON
SCHLEGEL

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GEORGE W. RUSSELL.....Basketball
RAY E. COPELAND.....Track
CARROLL O. NORDQUIST.....Baseball
HAROLD C. SHEFFIELD.....Tennis
V. WAYNE RODGERS.....Rifle Shooting, Swimming

ATHLETIC COUNCIL

Michael C. Brunner Glenn Graham
Glenn M. Schlegel (1 1/2 terms) Carl H. Heilbron, Jr. (1 1/2 terms)
Joseph Matson, Jr. (1 term) Carroll O. Nordquist (1 term)
George W. Russell (1/2 term) Ray E. Copeland (1/2 term)

EXHIBIT DAY

Le Roy Dixon, Chairman Edwin F. Thayer, Advisor
Arthur B. Allyne Frank C. Clayton

RAYMOND THEATRE "TECH NIGHT"

Le Roy Dixon, Chairman Alfred A. Newton
Caryl Krouser

DUGOUT

Glenn M. Schlegel, Chairman Walter L. Bryant, Chairman
(1 1/2 terms) 1 1/2 terms
Maxwell F. Burke Guy L. Chilberg

HONOR KEY

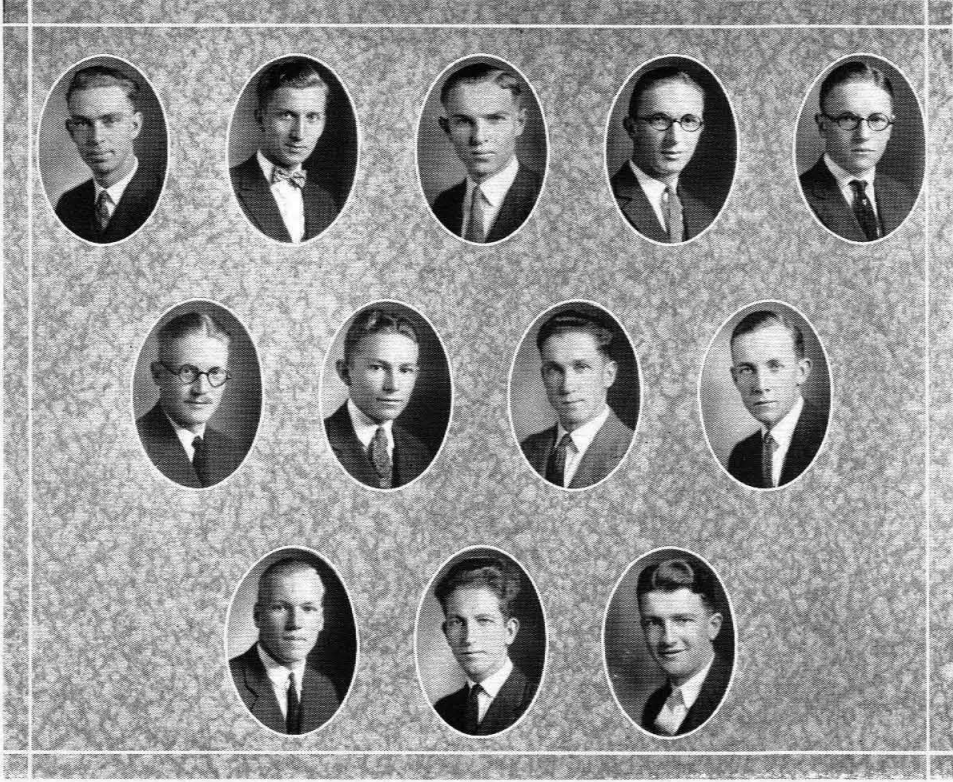
John E. Maurer, Chairman Victor F. Hanson
Bruce H. Mills

ELECTION

Arthur B. Allyne, Chairman Edward C. Ward
Frank C. Clayton

TIE UP

Robert T. Dillon, Chairman Alfred A. Newton
Caryl Krouser Wesley C. Hertenstein
Robert W. Fulwider



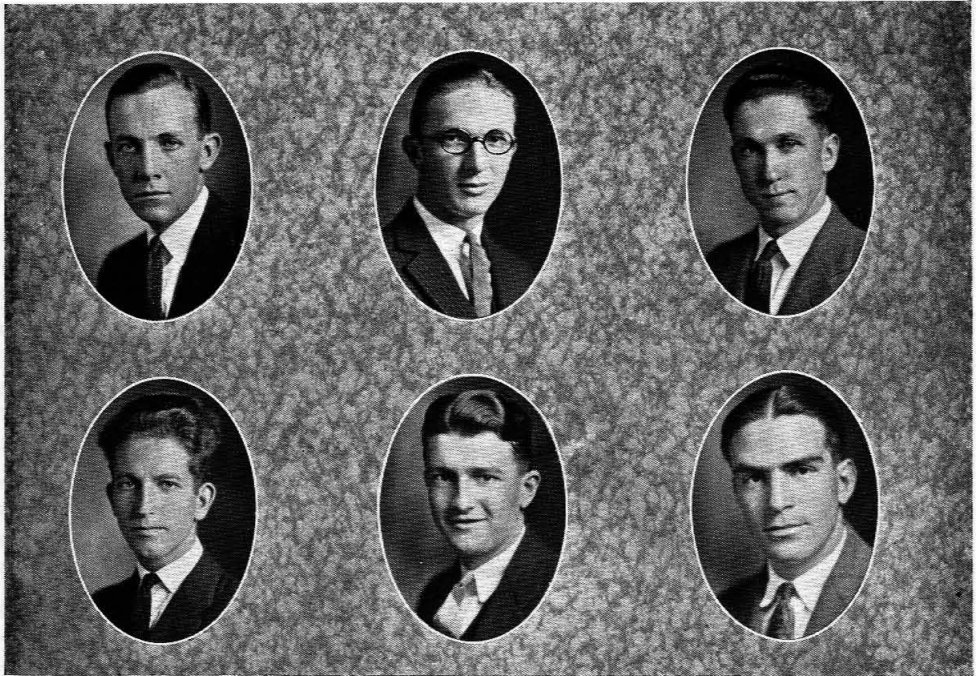
SALSBURY BRUNNER DILLON FERKEL FULWIDER
PETERSON WARD COLEMAN BURKE COPELAND EVANS PARNALL

BOARD OF CONTROL

THE fundamental purpose of the Board of Control is to oversee the Honor System, to foster it, and to provide a centralized system whereby it may function to the highest degree of perfection.

The Honor System is distinctly a student body institution—it could not be otherwise. As the name implies, it is a system whereby every man is placed entirely on his own honor in matters concerning all phases of college life. It is promoted entirely by the students themselves through the Board of Control, the faculty taking no action whatever in the manner in which it is carried out.

The fundamentals and ideals of the system are fully explained to new members of the student body, and the way in which they have grasped the true spirit of the tradition is shown by the fact that, while at other colleges, so-called "Honor Systems" are being misused, scorned, and consequently have been failing, here at Tech it can be truthfully be stated that the Honor System is improving and growing stronger each year. Tech men hold it above any other tradition or phase of their college life.



PARNALL
BURKE

FERKEL
EVANS

COPELAND
GILMORE

COURT OF TRADITIONS

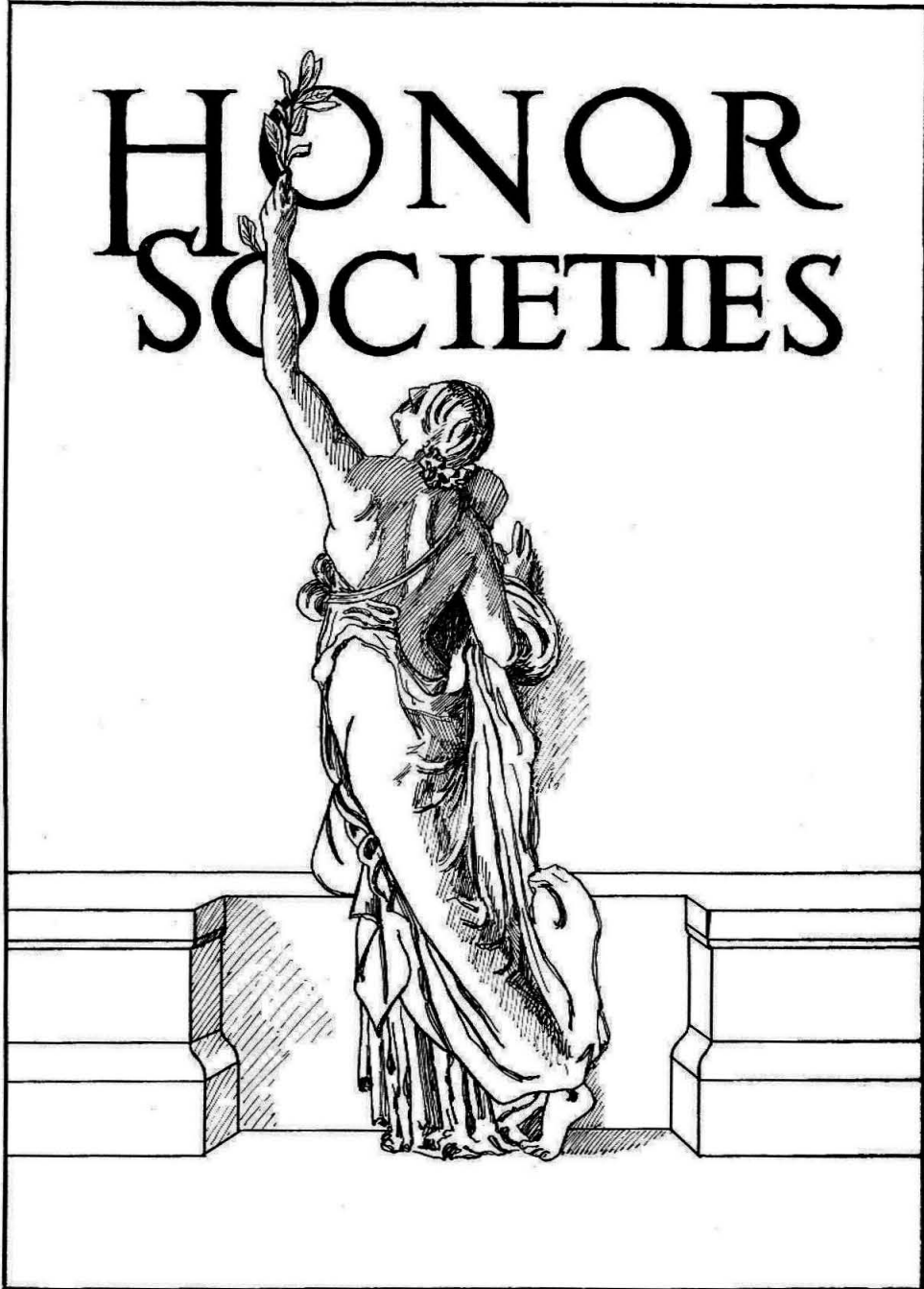
<i>Senior Judge</i>	ALBERT J. FERKEL
<i>Junior Judge and Clerk</i>	SAMUEL PARNALL
<i>Sophomore Judge</i>	MAXWELL BURKE
<i>Sophomore Prosecutor</i>	EDWARD GILMORE
<i>Freshman Representative</i>	ROBLEY EVANS

Sophomore Deputies

- MAX BOWER
- EDWARD JONES
- LEONARD L. SNYDER
- LEE RALSTON
- RAYMOND PERRY (Dormitory)

The observance of Traditions and Freshman Rules are enforced by the Court of Traditions, a sub-committee of the Board of Control. This court interprets the Traditions and distributes such punishments as are necessary for the offenders in question. In organizing the Court in 1922, the prime object was to do away with the practice of hazing, which is of no credit to any student body. This year an attempt has been made to make such disciplining of advantage to student life, and so to some extent the punishments have been in the nature of work around the campus, instead of the various humiliating tasks which the Court has been accustomed to administer.

HONOR SOCIETIES



The Big T

PI KAPPA SIGMA



FOUNDED AT CALIFORNIA INSTITUTE OF TECHNOLOGY—1925

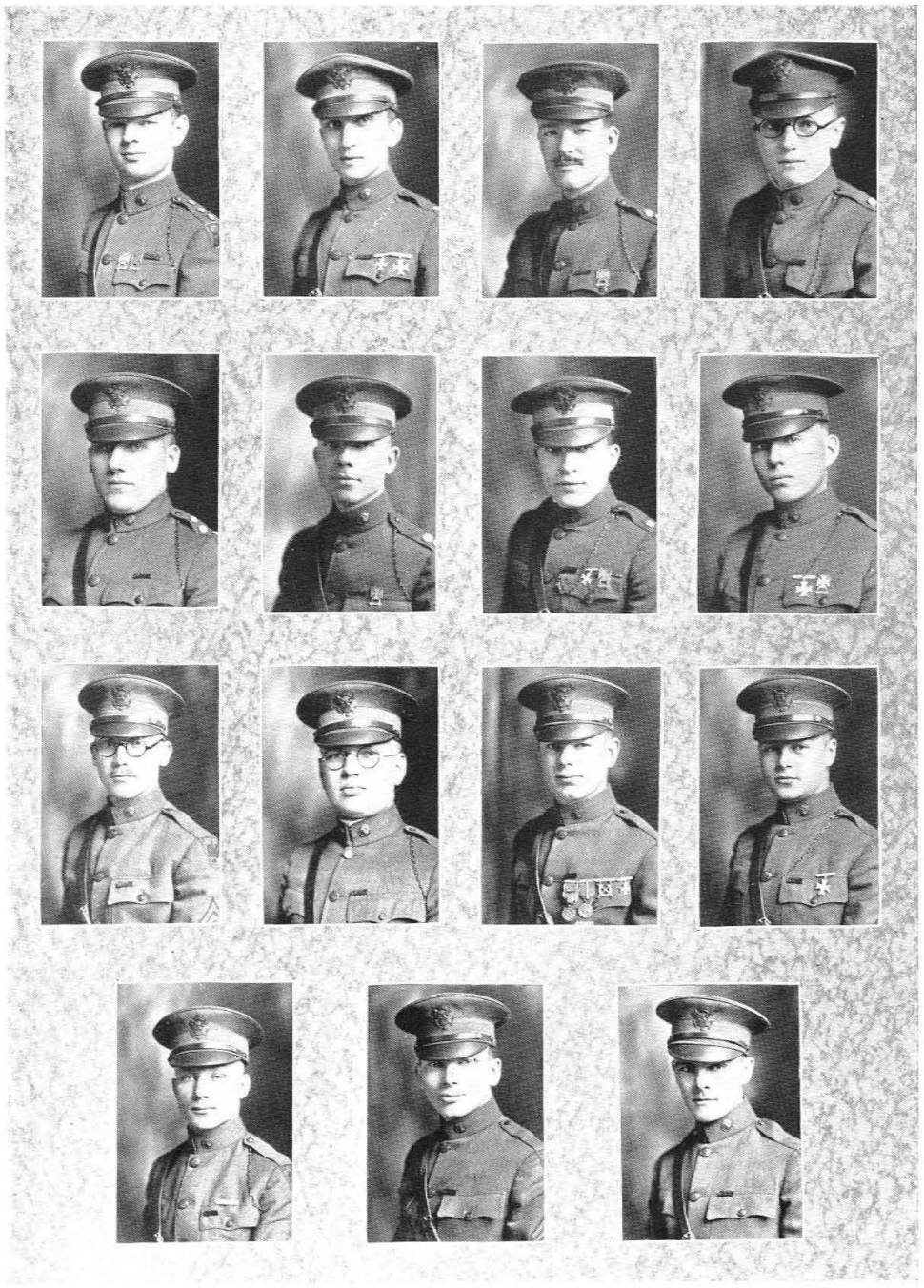
Members

CLASS OF 1925

Michael C. Brunner	Alfred A. Newton
Robert W. Fulwider	Paul E. Noll
James E. Moore	Glenn M. Schlegel
Earl D. Stewart	

CLASS OF 1926

Robert B. Bowman	Lawrence G. Maechtelin
Roger B. S. Bryan	Joseph Matson
Felix O. Fricker	Allan J. Morrison
Victor F. Hanson	George L. Paulus
John E. Kinsey	H. Fred Peterson
V. Wayne Rodgers	





TECHNICAL SOCIETIES

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

"The American Society of Mechanical Engineers constantly endeavors to promote the arts and sciences connected with engineering and mechanical construction. This object can best be accomplished by the promotion of technical research; by meetings where members gather to hear technical papers read and discussed, and profit by the stimulus of contact of mind with mind—" In carrying out this policy the local student branch feels that it renders a great service toward the development of student life at California Tech.

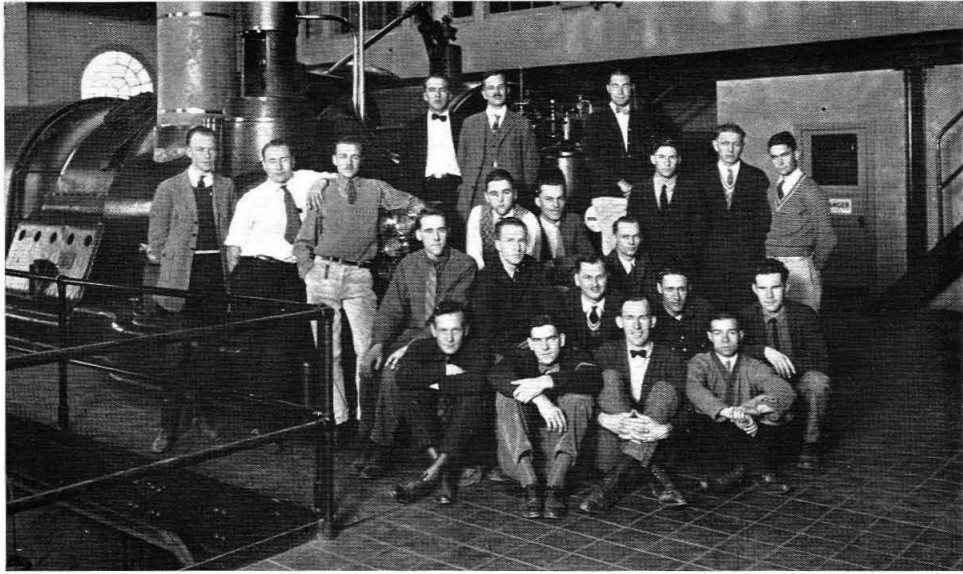
Through the efforts of Prof. Robert L. Daugherty the local student branch has had the most hearty cooperation of the Los Angeles Section of the A. S. M. E. The student branch members were privileged to attend the meetings of the L. A. Chapter and this year were especially entertained at a field day and inspection of the industrial plants at the Vernon district.

The student branch was also highly honored this year by the visit of Mr. Hartford and Mr. Penrose of the New York headquarters of the A. S. M. E.

The student branch members with the assistance of Prof. W. Howard Clapp entertained the L. A. Section of the American Steel Treaters Association at their regular meeting on the college campus.

The showing of the Armco films and the A. S. M. E. dance were other features put on by the student branch.

During meetings held bi-weekly, student members present papers or prominent outside speakers give talks on some engineering subject. The members of the society have the opportunity of meeting outside engineers, whose acquaintance will undoubtedly prove advantageous in their later life.

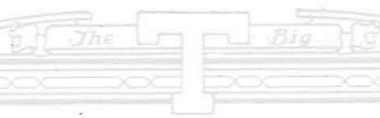


OFFICERS

EDGAR M. DEREMERChairman
 HENRY P. HENDERSONVice-Chairman
 ALFRED L. ERICKSONSec.-Treas.

MEMBERS

Sterling W. Beed	Paul E. Noll
Hugh J. Byrne	Dwight O. Smith
Raymond F. Childs	George Curtiss Spelman
Harold A. Dresser	Wilfred G. Thompson
Albert Chapman	Ira E. Triggs
Mason D. Hanes	Harry L. Remington
Lawrence P. Henderson	Robey T. Watkins
Herbert J. Jones	Raymond C. Perry
Walter B. Jones	Ralph M. Watson
Eugene Kirkeby	Leonard L. Snyder
C. Gilbert McProud	Alvin G. Viney
Leroy Newcomb	Louis A. Orsatti



AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

MEMBERS

WILLIAM A. LEWIS, JR.Chairman
ALFRED E. SCHUELERSecretary-Treasurer

H. Carter Austin
Burt Beverly, Jr.
M. Maxwell Bower
Allyn W. Blunt
Walter L. Bryant
Albert E. Byler
Alan E. Capon
Frank C. Clayton
J. J. DeVoe
Dan G. Dinsmore
George M. Farly
Harry K. Farrar
Elmer H. Fisher
Howland M. Flick
Melvin E. Gainder
Ted R. Gilliland
Roscoe Gockley
Thomas L. Gottier
Wayne E. Grainger
Frey Hamburger
Raymond J. Hansen
Claude D. Hayward

Thomas M. Hotchkiss
J. Roscoe Howell
Herbert V. Ingersoll
Vernon P. Jaeger
David T. Jones
Michael B. Karelitz
Clarence F. Kiech
Seerley G. Knupp
Harold W. Lord
Arnold S. Lutes
Fred M. Morikawa
Percy E. Parker
Rolland R. Pearson
Frederick T. Schell
Percival T. Scott
Douglass W. Sellers
Thomas S. Southwick
Clement B. Stern, Jr.
Frank H. Streit
James F. Thompson
Neal D. Smith
Keith M. Wilson



The aim of the local branch of the American Institute of Electrical Engineers is primarily to bring the electrical engineering students into closer contact with the electrical industry and this year has been an active one in the pursuit of that aim. Many very interesting meetings have been held, the students being addressed by prominent men from the various electrical organizations, notably the two largest electrical manufacturing companies, the Westinghouse Co. and the General Electric Co. These talks have covered a wide range of subjects, varying from the common and well known induction motor to the most complicated new design of automatic equipment.

In addition, several meetings were addressed by our own students who had had experience in some phase of electrical work which made them capable of presenting some well worth while material. Here, too, the subjects were varied and interesting and the meetings well attended. Also, inspection trips were made to interesting places which were not regularly covered in the trips arranged by the faculty for all the electricals.

This year the plan of having some of the meetings of a more or less social character at which refreshments were served was inaugurated into the branch program.

Unfortunately, the A. I. E. E. is handicapped in a like manner to the rest of the professional societies by being unable to arrange its meetings in such a manner as to avoid conflict with other activities and some very interesting addresses could not be arranged for that reason. In spite of this handicap, however, this year has been one of marked progress for this branch as is evidenced by the increased membership and large attendance at the meetings.

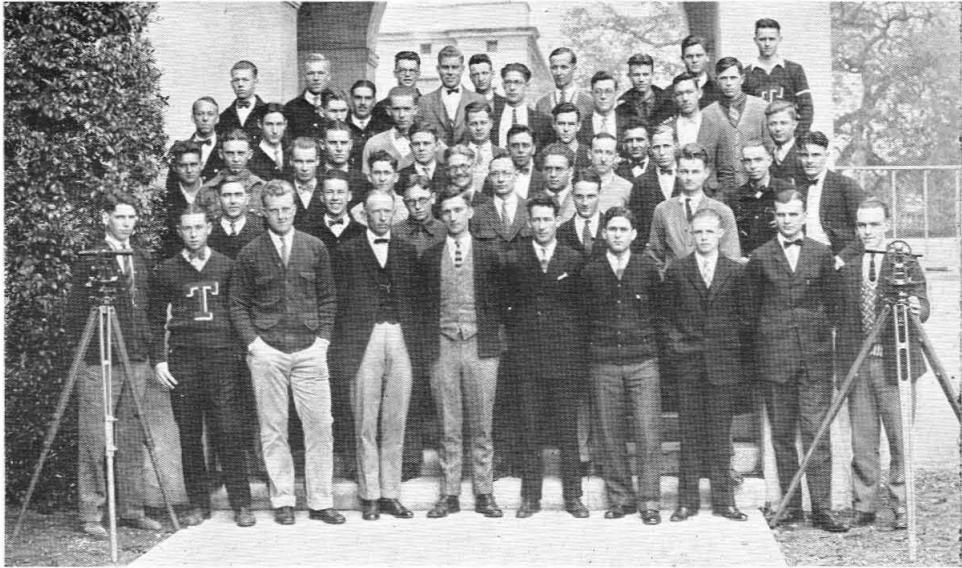
AMERICAN SOCIETY OF CIVIL ENGINEERS

OFFICERS

WESLEY C. HERTENSTEIN*President*
W. STEPHEN KINGSBURY*Vice-President*
NEWTON H. TEMPLIN*Secretary*
CLARENCE A. BURMISTER*Treasurer*

MEMBERS

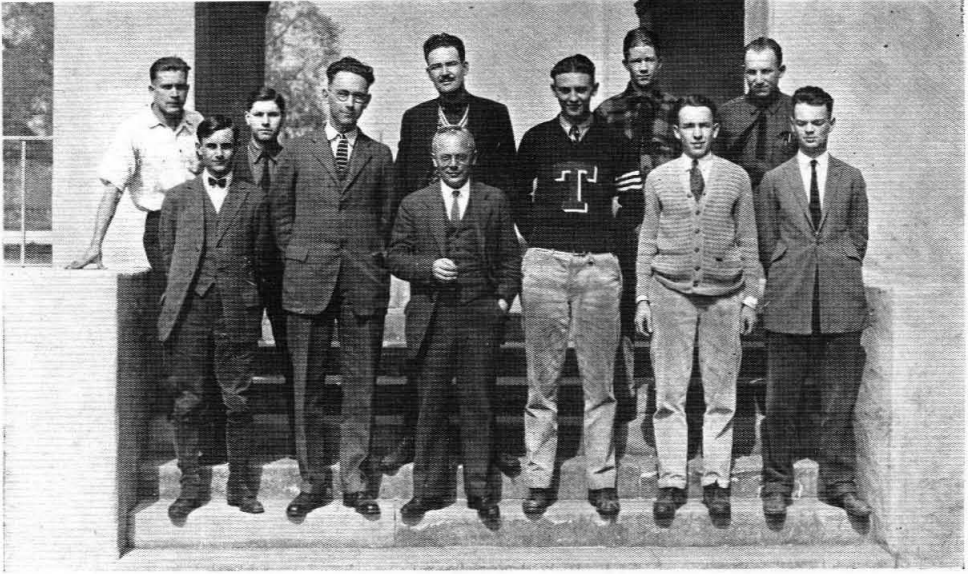
Raymond E. Alderman	Ray I. Hall
Tracy L. Atherton	Charles Humprey, II
Arthur B. Anderson	Homer A. Halverson
Carl F. Beed	William J. Hewston
Michael C. Brunner	Edward J. Jones
Clarence A. Burmister	Maurice T. Jones
Robert Bogen	W. Stephen Kingsbury
Ellery R. Baxter	Leo M. Miller
George S. Burrell	John E. Michelmore
James Boyd	Robert W. Moodie
Kenneth A. Belknap	Donald P. Macfarlane
Edward Cornelison	Kenneth C. McCarter
Wayne Clark	Demetry N. Melnikoff
Ray E. Copeland	Allan J. Morrison
Ralph E. Copeland	Bruce H. Mills
Dexter P. Crowther	Carroll O. Nordquist
Harry E. Cunningham	William L. Olsen
John G. Case	H. Fred Peterson
Theodore C. Combs	Vladimir Porush
Ralph W. Cutler	Rolland A. Philleo
LeRoy Dixon	Glenn M. Schlegel
Royal E. Fowle	Markham E. Salsbury
Robert W. Fulwider	Stuart L. Seymour
Frank M. Foster	George W. Russell
Howland M. Flick	Wayne Rodgers
Felix O. Fricker	Layton Stanton
Henry Gunning	Mark Serrurier
Glenn Graham	Newton H. Templin
Wesley C. Hertenstein	Edmund E. Winkel
Carl H. Heilbron, Jr.	Vito A. Vanoni
Byron A. Hill	Aubrey B. Upward
Yu Hsien Huang	



The American Society of Civil Engineers is a national organization which strives to develop first, the profession by encouraging the writing of treatises upon engineering subjects and second, the engineer as the man by social contact. The Student Chapter of the Society is designed to make students who are receiving a technical education familiar with the purposes of the organization. The Chapter here at California Tech has a very unique opportunity of accomplishing this aim.

Student members are invited to take advantage of the monthly meetings held by the Los Angeles Section. Several of the members have attended the various meetings hearing questions of an engineering nature discussed by eminent engineers. The regular May meeting of the Los Angeles Section was held with the Student Chapter in the Dugout. Besides the banquet and the general inspection of the campus, the combined organizations listened to a very interesting talk by Dr. Millikan.

In addition to these activities with the Los Angeles Section, the Student Chapter has staged several functions which have been very successful. In the first term the chapter saw the motion picture presented by Mr. Lloyd Aldrich, Mem. Soc. C. E. covering the road tests made at Pittsburg California. About one-hundred twenty-five men attended the meeting which is evidence that considerable interest was displayed. In January a group of the members enjoyed a cabin party in the San Gabriel Canyon and also visited the various dam sites of the Pasadena Water Department. In February Mr. Heilbron a member of the Chapter read a paper upon the construction of the Delaware River Bridge which he illustrated with a very good set of slides. On a whole the members feel as though this has been a very successful and eventful year.



ECONOMICS CLUB

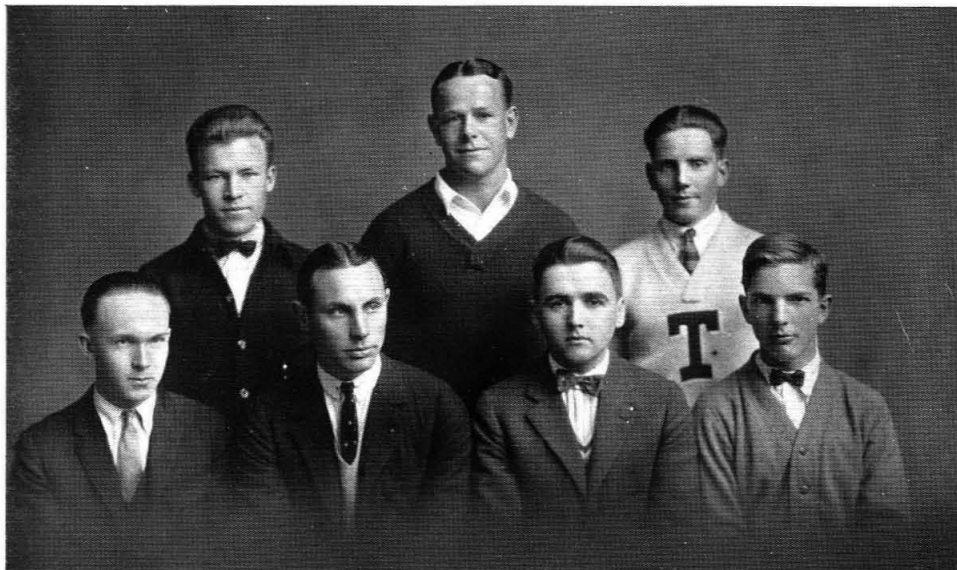
The Econ Club is composed of juniors and seniors interested in economics. Meetings are held twice a month at the home of Professor Laing. New books on current economic subjects are outlined by the members, and then discussed over the refreshments provided by the host. Shaw's plays and such books as "Bunk," "Essays on Truth," and others, in addition to the regular economic readings, have been popular. Through the generosity of Professor Laing, the Econ Club has enjoyed the most successful year of its existence.

OFFICERS

JOHN E. MAURER.....*President*
 PAUL C. RIVINIUS.....*Secretary*

MEMBERS

Alpheus M. Ball	James E. Moore
Robert B. Bowman	Stuart L. Seymour
Norris F. Bravender	Edwin F. Thayer
Alfred A. Newton	Joseph H. Walker
Michael B. Karelitz	Clarence E. Weinland



THE S. A. E.

This year a new professional Society has been organized at the Institute called the Society of Automotive Engineers. C. G. McProud was largely responsible for the firm establishment of the local Chapter in spite of the unsuccessful attempts made heretofore. The showing of a motion picture on the Mechanism of an Automobile was one of the outstanding events of this year's calendar. Numerous discussions were held by the Chapter on the various phases of Automotive Engineering. Some of the members received the official Journal published by the National Organization and benefited greatly by it.

OFFICERS

C. G. McPROUD*President*
 PERCY PARKER*Vice-President*
 RUSSELL J. LOVE*Secy.-Treasurer*

MEMBERS

O. H. Barnes	R. S. Love
G. Burrell	Percy Parker
G. C. Coffee	C. G. McProud
J. Hillegas	D. W. Ross
C. Knox	A. H. White
H. W. Lord	

CHEM CLUB

OFFICERS

<i>President</i>	EARL D. STEWART
<i>Vice-President</i>	L. B. PRENTICE
<i>Secretary</i>	ROBERT B. BOWMAN
<i>Treasurer</i>	ARTHUR ALLYNE

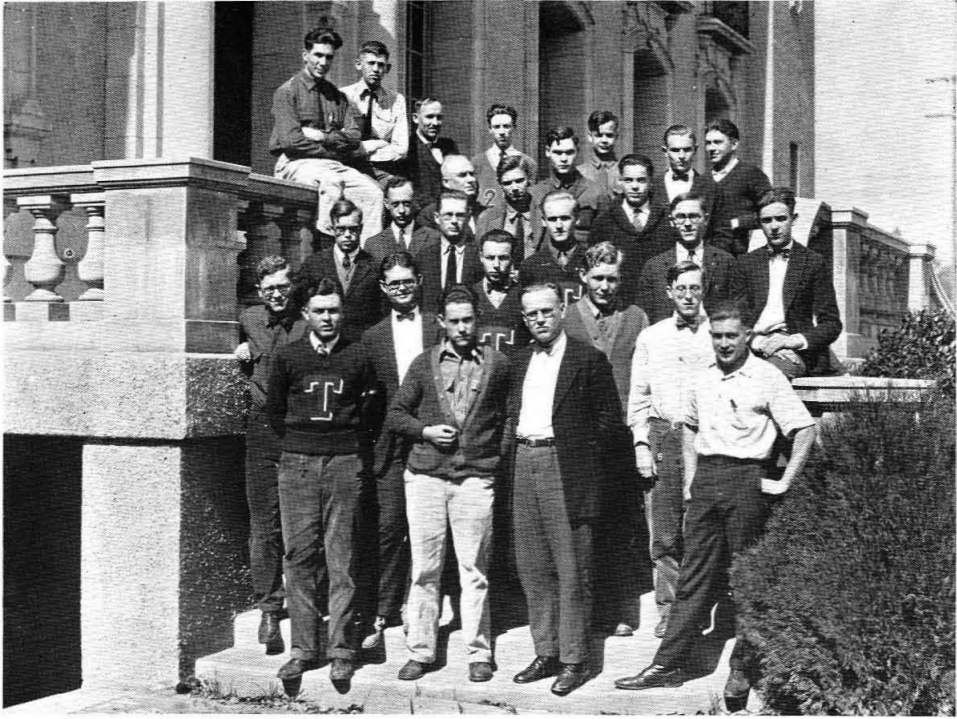
The Chem Club is the oldest professional organization on the campus. Its purposes are: to stimulate interest in chemistry and chemical subjects at C. I. T., to promote friendship and fellowship among the students in chemistry, to keep in contact with recent advances in chemical knowledge and especially the work done in the Gates Chemical Laboratory, and to promote interest and discussion on chemical subjects.

Meetings are held every Wednesday noon, when the men lunch together and listen to discussions on some topic of general interest. "Storage Batteries," "Sugar Refining," "Varnish," "Cement," and other topics of technical interest were included. Among the talks of a more theoretical interest were those on "Ozone," "Chloric Oxide," "Determination of Crystal Structure by means of the X-Ray," "Addition of HBr to Unsaturated Compounds" and many others. A series of talks was given on the relation of chemistry to the body.

Each year two trips are taken by the Club. One, taken in the first term, is usually in the nature of a hike, while the other is usually a house party at the beach. In the first term of the college year Camp Baldy was the goal of a pleasant trip. A week-end house party at the beach was enjoyed in the third term.

This year another form of entertainment, A Chem Club Hi Jinx, was undertaken, and proved so successful that it is hoped that one will be held each year in the future. It took the form of a smoker held in the Dugout. Several alumni attended and a feed, music, billiards and cards helped to renew old acquaintances.

It can be safely said that this was the most active and successful year the Chem Club ever had. It is hoped that it will expand as much in the future as it has this year.



FACULTY MEMBERS

Dr. William N. Lacey

Howard J. Lucas

MEMBERS

Horace C. Adams
 William H. Allen
 Arthur B. Allyne
 Alpheus M. Ball
 Warren P. Baxter
 Robert B. Bowman
 John Buxton
 Roger B. S. Bryan
 James M. Carter
 Robert T. Dillon
 Robert H. Dalton
 Edward W. Hart
 James W. Hastings
 Ben E. Hess
 L. Merle Kirkpatrick
 Robert Loofburrow
 John E. Marsland
 John H. Maxson

Bernard N. Moore
 Richard D. Pomeroy
 Leland B. Prentice
 Kenneth W. Ranney
 Roland W. Reynolds
 Raymond E. St. Clair
 Herman F. Schott
 Murray N. Schultz
 Edgar E. Shafer, Jr.
 Harold C. Sheffield
 Vadim Sokoloff
 Earl D. Stewart
 Fred C. Henson
 Edgar Valby
 Joachim E. Voelker
 Edward C. Ward
 Baker Wingfield
 Burnett B. Wisegarver

Sidney Zabaro

THE Y. M. C. A.

The "Y" has been given a very marked boost in importance to the general Student Body by obtaining for its General Secretary, Charles Schwieso, Jr. It has been through his efforts that the "Y" has accomplished so much this year and become one of the most important organizations in the College.

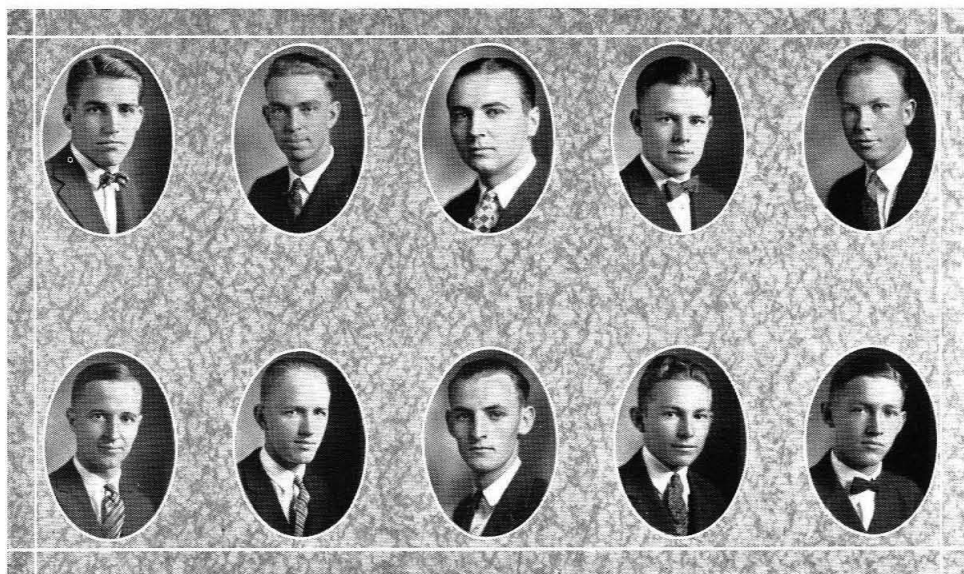
Membership in the Y. M. C. A. this year has closely approached the one hundred per cent mark. The matters of room, board and employment, have all especially been well cared for during the year. All rooms have been inspected before being listed and the number of jobs secured for the students has greatly exceeded that of any previous year.

Good speakers for regular student assemblies were brought to Tech by the efforts of the "Y." George S. Eddy, Dr. Seerly and Dr. George Irving all gave extremely interesting talks to the general assemblies. A novel assembly which was sponsored by the "Y" was the Christmas assembly at which Dr. Freeman spoke. This was the first Christmas assembly ever held at Tech. The discussion groups carried on during the year have been well attended and the discussion has been spirited. The friendship council which is a smaller group and meets in the down town Y. M. C. A., has increased in attendance and meets a real need in the life of the student.

A record attendance at Asilomar was shown this year. Ten delegates including the general secretary, spent the latter part of the Christmas holidays at the Conference. As all the delegates can testify, the Asilomar conferences are an inspiration and should be attended at least once by every man in college.

One of the most important new projects of the "Y" has been the organization of the Cosmopolitan Club. By means of this Club the "Y" has endeavored to bring the foreign students into closer contact with the American students and promote fellowship among them.

Social functions of the "Y" were numerous and full of life. A mixer in the Dugout during the first term started things off in great style, for the upperclassmen, frosh and transfers got a wonderful opportunity to get acquainted. A hike up Mt. Wilson, a cabinet retreat at the Pacific Palisades, and a big Faculty-Student Mixer were also staged by the "Y".



CHARLES SCHWIESO, JR.....*General Secretary*

CABINET

DONALD P. MACFARLANE*President*

PAUL E. NOLL*Vice-President*

LEROY DIXON*Secretary*

CLAUDE D. HAYWARD*Treasurer*

COMMITTEE CHAIRMEN

H. V. Ingersoll Handbook and Publicity

Theodore C. Coleman Membership

Markham E. Salsbury Discussion Groups and Asilomar

Harry K. Farrar Social

Sydney F. Duncan General Committee

John E. Michelmores Cosmopolitan

Maurice T. Jones Room and Board



THE DORM CLUB

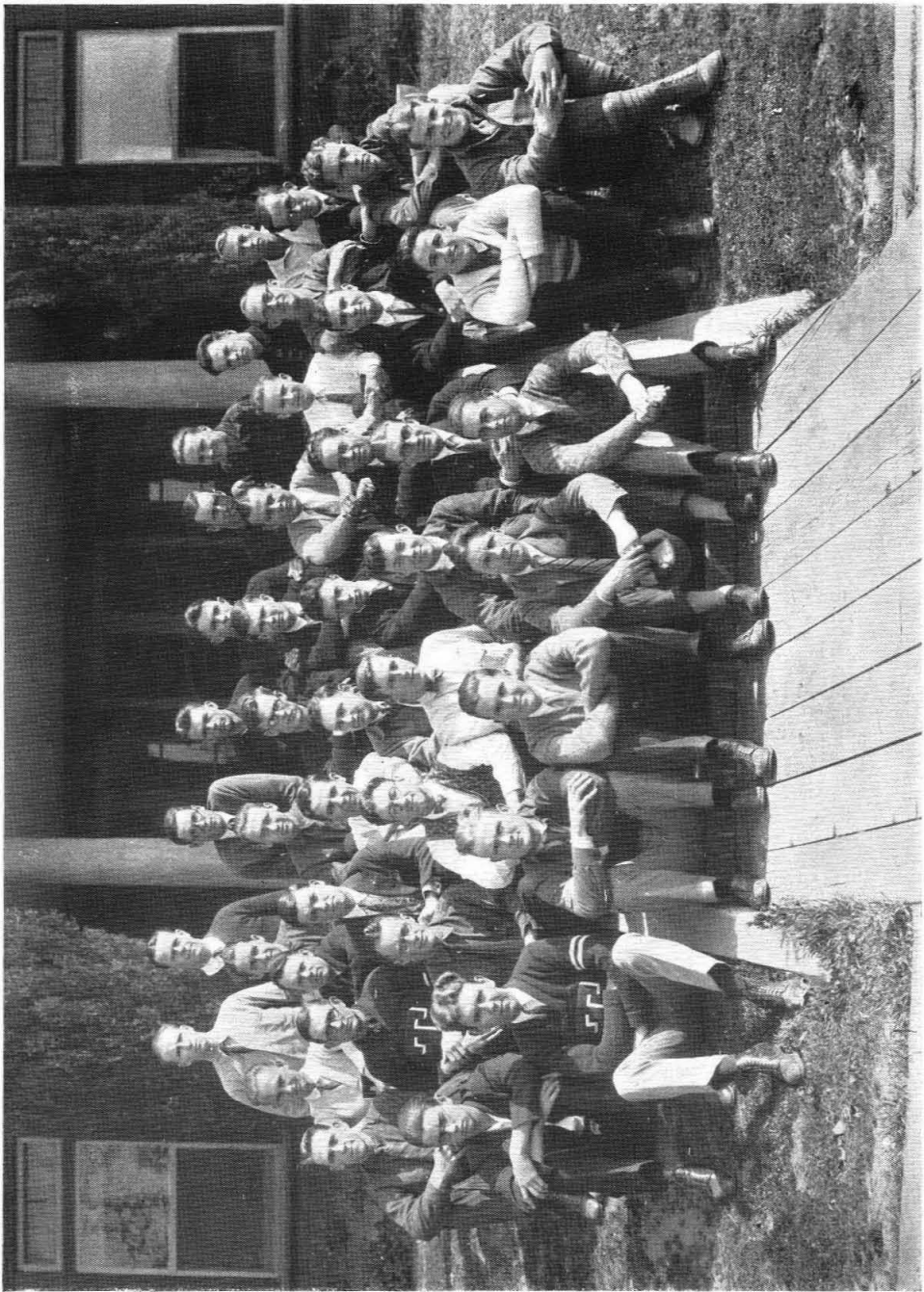
The Dorm Club, composed of the residents of "Dormenia" is necessarily a social organization. As such it is very active, as the affairs would show. During the first term the Club held a dance in the dugout, to which members of the student body were invited; in the second term a dance was held in the Dorm for the Broadoaks Dorm girls, and in the third term a hard times dance in the dugout was managed by the Club. In addition several smokers provided entertainment for the stags throughout the year.

OFFICERS

Keith M. Wilson.....	<i>President</i>
Harry E. Cunningham.....	<i>Vice-President</i>
J. Caryl Krouser.....	<i>Secretary-Treasurer</i>

MEMBERS

H. Carter Austin	Herbert J. Jones
Emerson D. Bailey	Vernon P. Jeager
Walter L. Bryant	Alex A. Kroneberg
Martin W. Bannister	J. Caryl Krouser
David Bogen	Seerley G. Knupp
George S. Burrell	Charles C. Lash
George E. Crocker	O. Seymour Larabee
Harry E. Cunningham	Benjamin R. Loxley
Donald G. Clark	Glenwood L. MacLane
James M. Carter	Alfred C. Nestle
Thomas H. Compton	Raymond C. Perry
Albert Chapman	Rolland A. Philleo
Guy L. Chilberg	Wadsworth E. Pohl
William U. Dent	E. Hart Ross
Harold A. Dresser	Kenneth W. Ranney
Richard M. Dodge	Curtiss Spelman
Willard H. Francis	Joe W. Schweinfest
Frank H. Ford	Percy T. Scott
Anthony W. Gray	Max H. Schachner
Roscoe Gockley	Hermann F. Schott
Sherman Hale	Thomas S. Southwick
Homer A. Halverson	Ira E. Triggs
Robert B. Hollingsworth	Myron E. West
Hugh A. Hossack	Ralph C. Weber
William J. Hewston	Keith M. Wilson
	Boris V. Zbradovsky



The T Big

DELTA MU BETA



FOUNDED AT THE CALIFORNIA INSTITUTE OF TECHNOLOGY—1925

The newest organization on the campus is the Delta Mu Beta, formerly the De Molay Club. Early in the first term, members of the Club got together and decided to change the name, as it was felt that the former one was not satisfactory. Shortly afterward, a new pin, distinct from the official De Molay pin was adopted for the organization. A crest for the organization has also been decided upon, and will probably be delivered during the last term for the use of the club. The D. M. B. is not a regular chapter of the Order of De Molay, but acts under a special grant from Headquarters of the Order.

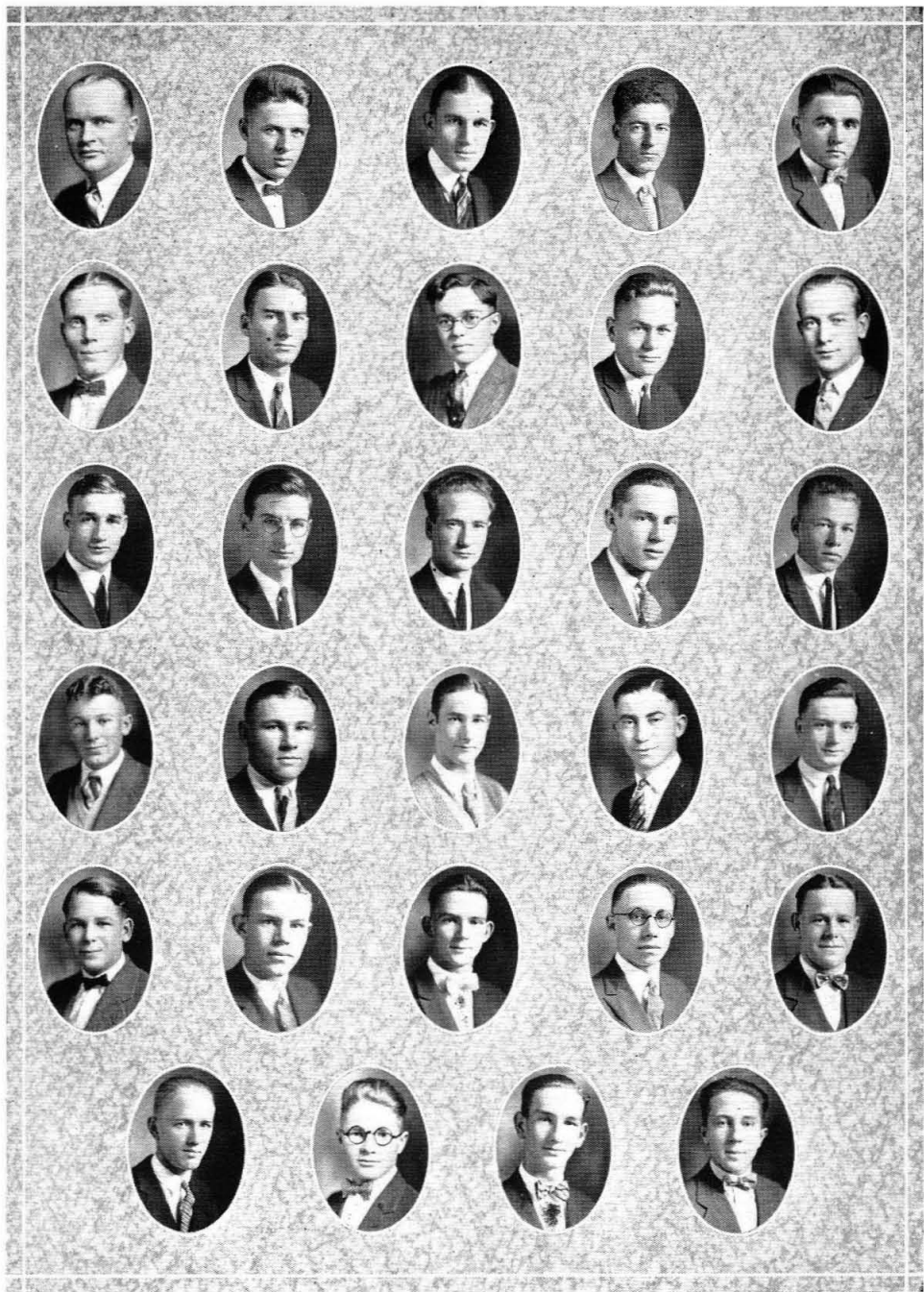
During the first term a very successful smoker was held, and several other social events have been planned.

OFFICERS

HARRY K. FARRAR.....	<i>President</i>
HARRIS CLOY.....	<i>Vice-President</i>
JAMES BOYD.....	<i>Secretary-Treasurer</i>

MEMBERS

William W. Aultman	Gilbert H. Mills
Harvey E. Billig	Gilbert McProud
R. Carter Blankenburg	William H. Mohr
Theodore C. Combs	Philip F. Musselman
Ward D. Foster	Frank A. Nickel
John G. Gilbert	Percy E. Parker
Clarence L. Haserot	Harry A. Peterman
Franklin C. Hicks	True W. Robinson
Hugh A. Hossack	Robert T. Ross
William M. Jacobs	C. Jackley Wallace
J. Caryl Krouser	Arthur C. Werden, Jr.
Harold W. Lord	William A. Wichman
Leslie W. Margison	Charles A. Wilmot



HONOR SOCIETIES

THE honor societies include practically every branch of campus activity. Tau Beta Pi, for scholarship; Pi Kappa Delta, for forensics; the Varsity Club, for athletics; the Press Club, for publications; the Honor Key System, for activities in general, and Pi Kappa Sigma for military activities, help to sustain interest in the various branches of campus life.

TAU BETA PI

The greatest honor that can come to an engineering student is to be elected to Tau Beta Pi, the National Honorary Engineering Society. The eligibility list includes the highest eighth of the junior class and the highest fourth of the senior class. When actual selection is made, however, emphasis is placed upon personality and character as well. For this reason the entire student body takes great interest in the Society.

The charter of the California Beta Chapter was granted in 1921. In addition to promoting a generally broader education for engineers, Tau Beta Pi plans several social events each year. These have usually taken the form of several banquets and formal dances.

PI KAPPA DELTA

Pi Kappa Delta, the National Honorary Forensic Society, has for its principal object the fostering of interest in debating and oratory. The selection of members is made from those who have taken part in college debates or oratorical contests. In addition, the chapter has continued the successful precedent of producing a classic drama, which was established last year. This year "Phormio," a Roman comedy by Terence was given. Social affairs are also held by the chapter during the year.

The California Gamma Chapter of the Society was installed in 1921, when Dr. Macarthur, now Dean of Freshmen, was National President.

THE HONOR KEY SYSTEM

Wearers of the Honor Key, although not definitely organized, do much towards promoting general activity in campus affairs. The keys are the Student Body's token of appreciation for the work by the recipients, for they are awarded only after distinguished services done.

In order that the honor of possessing a key may not be lessened by too many presentations, an Honor Key Committee supervises the system. Activities are allotted points in the order of their importance and the work connected with them. At the end of the year the men who have participated in a sufficient number of activities to give them the necessary twenty-four points are given keys.

Varsity Club

The Varsity Club has for its members the wearers of the Orange and White "T", earned by participation in athletics. Those who make one of the major sport teams, (football, basketball, track, baseball), or two of the minor sport teams, (swimming, tennis), are the active members of the club and Coaches are honorary members.

Furthering of interest in athletics is the principal object of the club, which acts as a communicating body between the various teams and the Executive Committee. Social functions are also sponsored, chief of which is the Varsity Club dance, to which the entire Student Body is invited.

Press Club

The Press Club is an honorary association of students who have shown special interest in literary and journalistic work. It has for its purpose the raising of the standard of all work of this sort done at Tech, and it also provides a means of men thus engaged to get together and discuss notable products of masters of the pen.

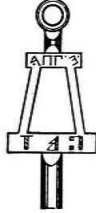
Initiation into the club includes the publication of the "Hot Rivet", the annual "Razz" edition of the Tech, in which the secret vices and public eccentricities of various members of the student body are exposed and elaborated upon. Much concern in this scandal sheet is shown by all members of the student body, as no-one knows who are to be the next victims of exposure.

Pi Kappa Sigma

The Pi Kappa Sigma Fraternity was founded to secure among the advanced Reserve Officers' Training Corps Students a closer cooperation for the purpose of encouraging military training in the College, of stimulating the development of the essential qualities of good and efficient officers, and of promoting good fellowship and virile progressive Americanism.

The Fraternity bases its selection of members not alone upon display of military efficiency, but upon character and manhood as well, for it maintains that a successful officer must possess not only a knowledge of Military Science and Tactics, but all the attributes of a gentleman.

TAU BETA PI



FOUNDED IN 1885 AT LEHIGH UNIVERSITY
45 Chapters
MEMBERS OF CALIFORNIA BETA CHAPTER, CHARTERED IN 1921

FACULTY

Dr. Robert A. Millikan	Prof. William H. Clapp
Dr. Arthur A. Noyes	Prof. Franklin Thomas
Dean Frederick W. Hinrichs	Prof. Royal W. Sorensen
Mr. Robert T. Knapp	

GRADUATE STUDENTS

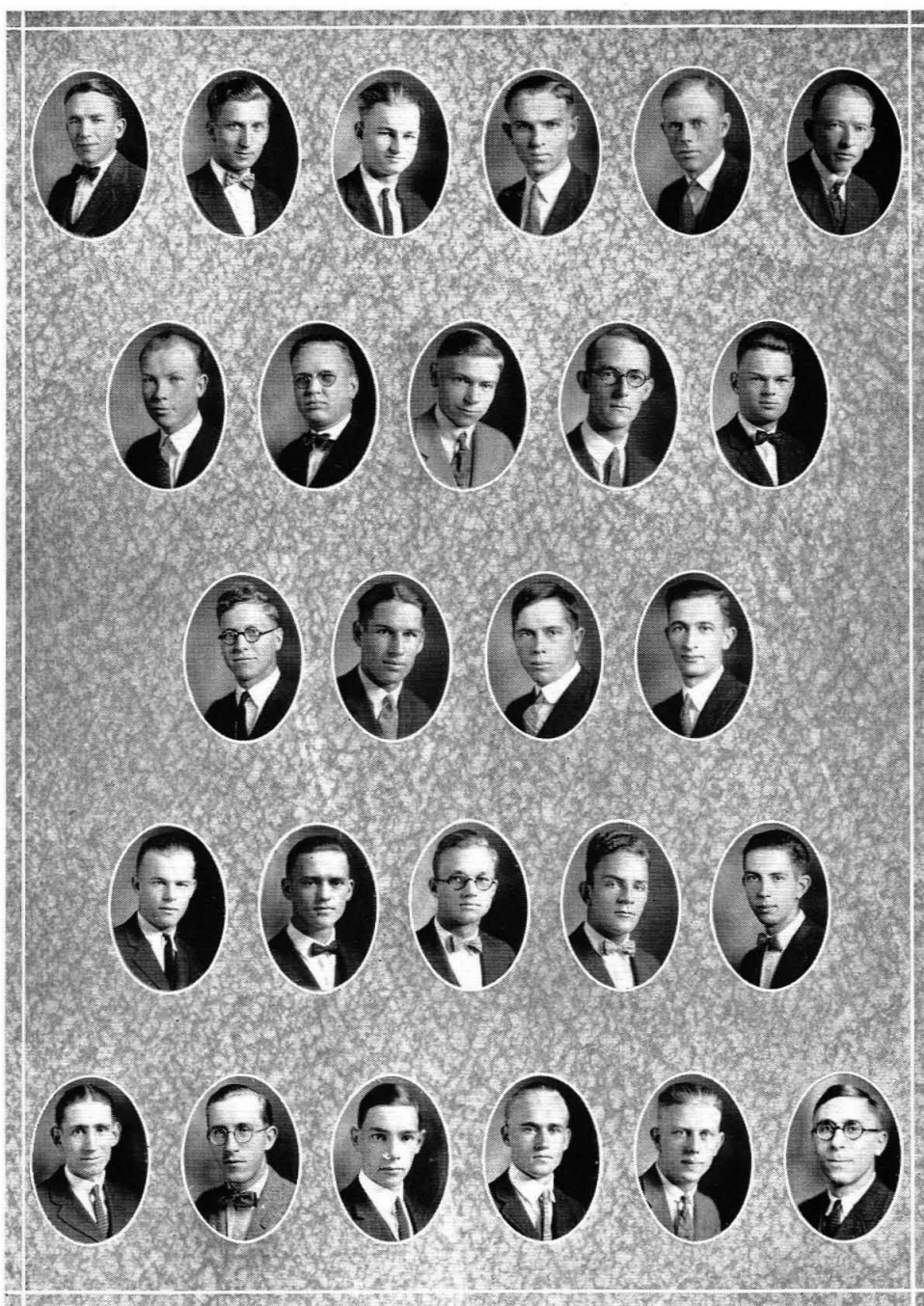
L. Merle Kirkpatrick	Jesse W. DuMond
Donald H. Loughridge	George H. Hopkins

CLASS OF 1925

Michael C. Brunner	G. Curtiss Spelman
Clarence Burmister	Byron A. Hill
Robert T. Dillon	Earl D. Stewart
Carl H. Heilbron, Jr.	Ben E. Hess
Edward W. Hart	Carl F. Beed
John E. Maurer	John D. Templeton
James E. Moore	Frank F. Clayton
Paul E. Noll	Robert H. Dalton

CLASS OF 1926

Robert F. Heilbron	William A. Lewis, Jr.
Alpheus M. Ball	Richard D. Pomeroy
James M. Carter	Alfred E. Schueler
George W. Clapp	Johannes A. Van den Akker
John L. Fahs	Sidney Zabaro



PI KAPPA DELTA



FOUNDED 1913 AT OTTAWA UNIVERSITY
108 Chapters
CALIFORNIA GAMMA CHAPTER ESTABLISHED 1921

FACULTY

Dr. John Macarthur
Walter W. Ogier, Jr

Stanley M. Pargellis
Paul H. Emmett

CLASS OF 1925

Harold C. Sheffield
Keith M. Wilson
Joseph H. Walker
Robert W. Fulwider

Edwin F. Thayer
Jack H. Helms
John E. Maurer
Alfred A. Newton
Sydney F. Duncan

CLASS OF 1926

Theodore C. Coleman
Robert F. Heilbron
John L. Fahs

Richard D. Pomeroy
V. Wayne Rodgers
William A. Lewis, Jr.
Leslie W. Margison

CLASS OF 1927

Maxwell F. Burke

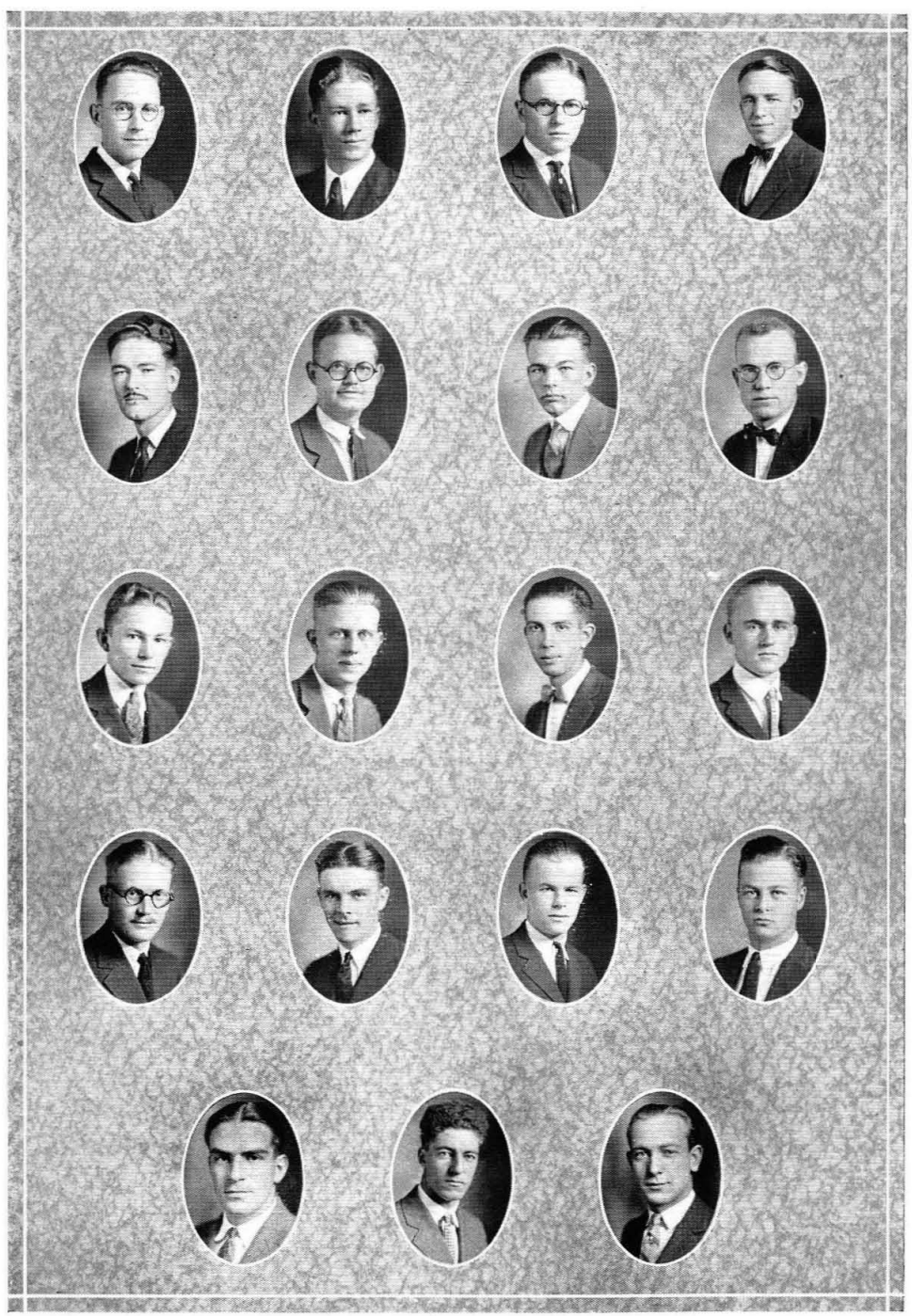
Ward D. Foster
Edward L. Gilmore

Pledges

Robert T. Ross, '27
Layton Stanton, '27

Kenneth A. Belknap, '27
Maxwell Bower, '27

one hundred eighty-eight



The Big

HONOR KEY MEN



1925

Michael C. Brunner, Key and 10
Robert W. Fulwider, 36
Maxwell F. Burke, 35
Theodore C. Coleman, 32
Oscar S. Larabee, 31
Robert T. Dillon, 30
J. Caryl Krouser, 30
Edwin F. Thayer, 29
Stuart L. Seymour, 28
Markham E. Salisbury, 28
Paul E. Noll, 28

Herbert V. Ingersoll, 28
Joseph H. Walker, Jr. 27
Robert B. Bowman, 27
Thurman S. Peterson, 26
Layton Stanton, 26
Arthur B. Allyne, 26
Wesley C. Hertestein, 24
John E. Michelmore, 24
H. Fred Peterson, 24
LeRoy Dixon, 24
Alfred A. Newton, 24

HONORABLE MENTION—16 Points or Over

Walter Bryant
Carl Heilbron
Harold Sheffield
Alpheus Ball
Felix Fricker
Victor Hanson

Wallace Penfield
Alfred Schueler
James Carter
Robert Heilbron
William Olsen
Robley Evans

Kenneth Robinson

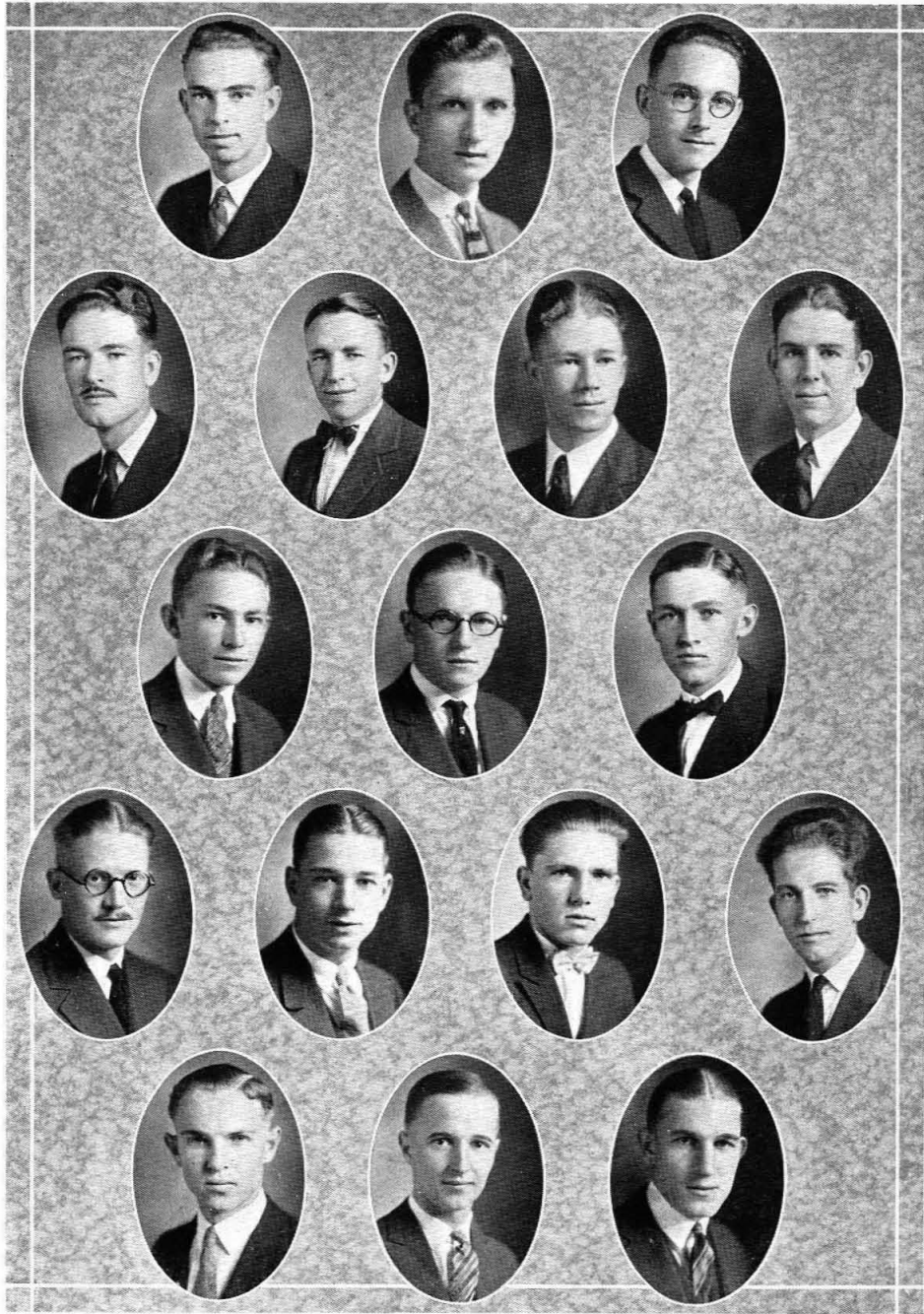
Note: This list is complete only to date of printing and is subject to later alteration.

1924

Martin L. Beeson
Fred J. Groat
Alfred A. Newton
Harold R. Beck
Michael C. Brunner
Markham E. Salisbury
John E. Maurer
Hollis W. Moyse
Edgar N. Layton

Grant V. Jenkins
William L. Holladay
Donald F. Morrell
Roy O. Elmore
Robert O. Stein
Kenneth B. Anderson
Joseph H. Walker
Morris Goldsmith
Oliver W. Kilham

Edwin F. Thayer



VARSIITY CLUB



RAYMOND E. ALDERMAN.....*President*
GLENN GRAHAM.....*Vice-President*
LAWRENCE P. HENDERSON.....*Secretary-Treasurer*

MEMBERS

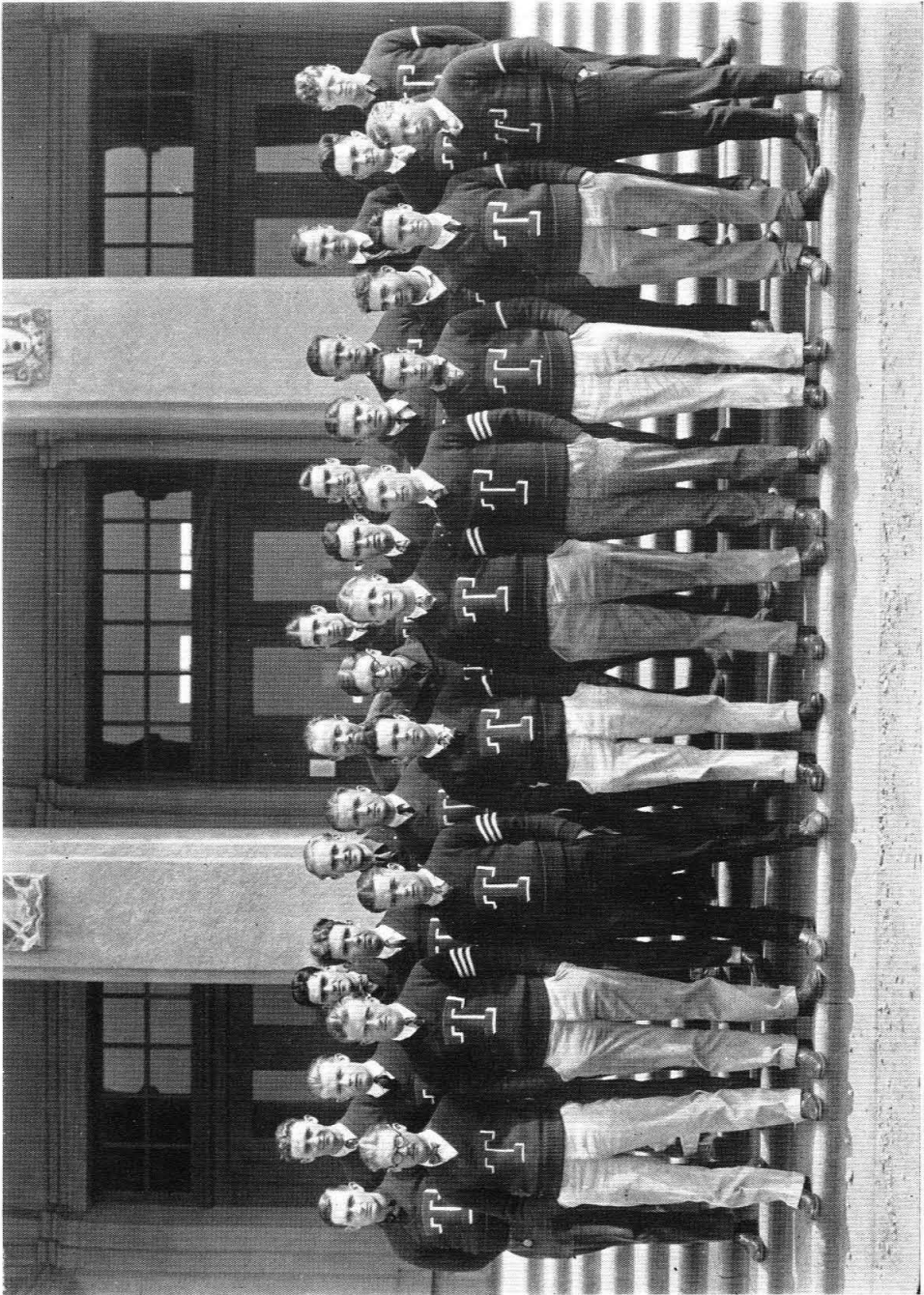
R. E. Alderman, F. 2, 3, 4, Tr. 4.	G. E. Moore, F. 3.
A. B. Allyne, BB. 2, 3.	L. Newcomb, F. 3, 4, Tr. 3, 4.
H. P. Anderson, Tr. 2.	F. A. Nickell, F. 2.
J. C. Baker, F. 2, 3, Bask. 2.	P. E. Parker, Ten. 2, 3.
C. F. Beed, BB. 3, 4.	R. R. Pearson, Bask. 2.
C. H. Bidwell, Tr. 2, 3.	H. F. Peterson, BB. 2, 3.
M. C. Brunner, F. 2, 3, 4, Bask. 2, 3.	T. S. Peterson, Bask. 2.
G. E. Crocker, BB. 2, 3.	R. D. Pomeroy, Tr. 2, 3.
M. W. Edwards, Tr. 2, 3.	M. I. Pyle, Bask. 3.
F. M. Foster, F. 2, 3, 4.	L. W. Ralston, Tr. 2.
R. W. Fulwider, Sw. 2, 3.	K. W. Ranney, Ten. 3, 4.
F. O. Fricker, BB. 2, 3.	A. E. Schueler, Tr. 2.
Glenn Graham, Tr. 2, 3.	D. W. Sellers, F. 3.
R. F. Heilbron, F. 3.	S. L. Seymour, F. 2, 3, 4.
L. P. Henderson, Tr. 3, 4.	E. E. Shafer, Bask. 2, 3, 4.
B. A. Hill, Tr. 4.	H. C. Sheffield, Ten. 3, 4.
V. A. Hoover, Tr. 2.	M. N. Shultz, Tr. 2.
W. S. Johnson, F. 3.	L. Stanton, F. 2.
J. E. Kinsey, F. 2, 3.	H. R. Starke, Bask. 2.
O. S. Larabee, F. 4, BB. 2, 3, 4.	F. H. Streit, Bask. 3.
F. A. Larson, Tr. 4.	W. G. Thompson, Sw. 2, 3, 4.
J. E. Maurer, Bask. 4.	E. J. Weinland, Sw. 2, 3.
F. P. Meserve, Jr., Tr. 2.	A. C. Werden, Bask. 2, 3.

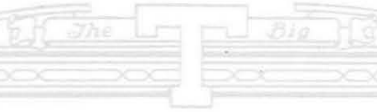
HONORARY MEMBERS

W. L. Stanton
Football and Track Coach

H. Z. Musselman
Baseball and Basketball Coach

NOTE: F—Football; Bask.—Basketball; Tr.—Track; BB.—Baseball; Sw.—Swimming; Ten.—Tennis.





THE PRESS CLUB



HONORARY MEMBERS

Prof. Clinton K. Judy Prof. George R. MacMinn
Stanley W. Pargellis

FACULTY MEMBERS

Arthur L. Klein

ACTIVE MEMBERS

CLASS OF 1925

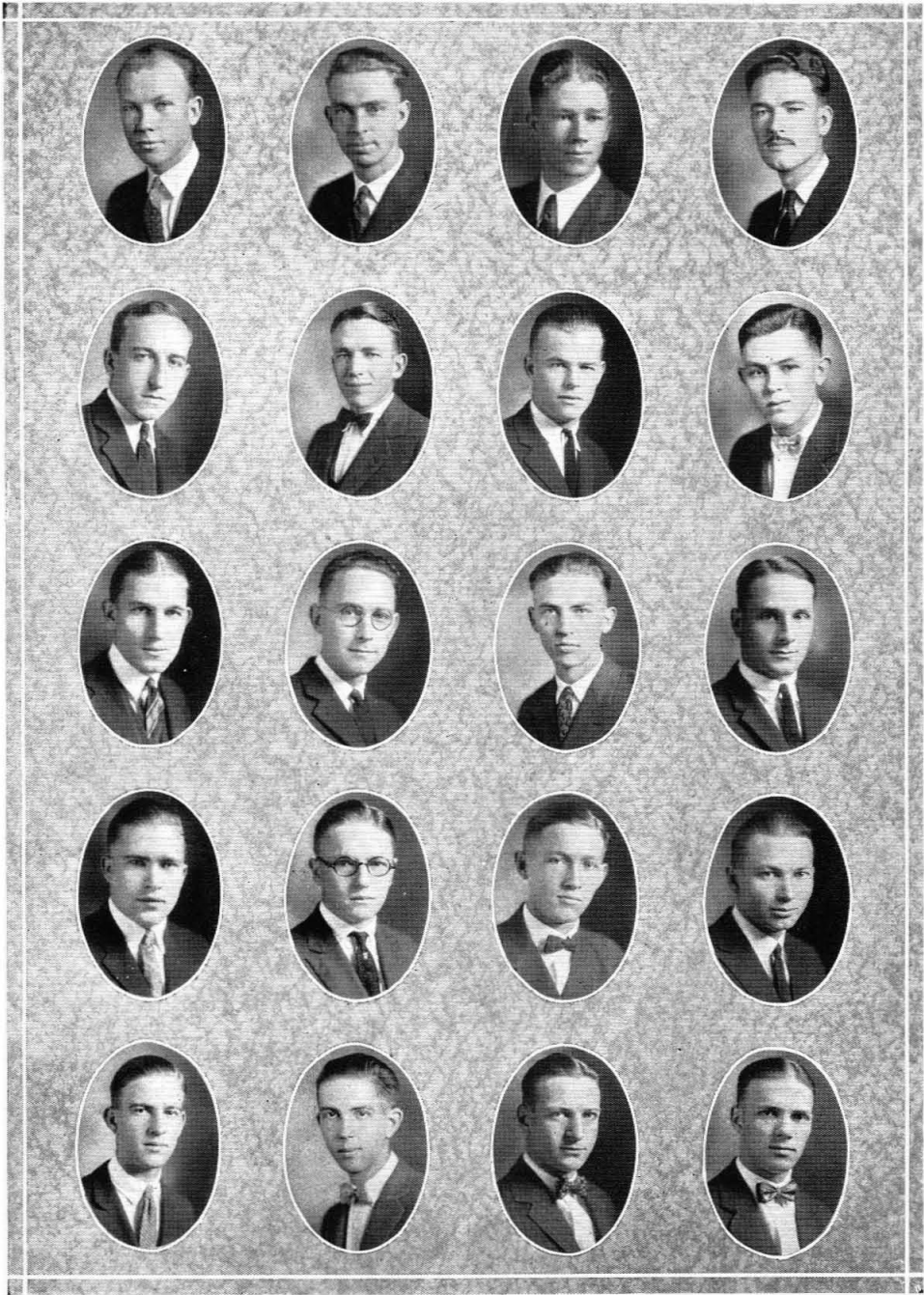
Alfred A. Newton	John E. Maurer
Tracy L. Atherton	Robert B. Bowman
Paul E. Noll	Edwin F. Thayer
Markham E. Salsbury	J. Caryl Krouser
Joseph H. Walker	W. Stephen Kingsbury, Jr.
	Robert W. Fulwider

CLASS OF 1926

Robert F. Heilbron	Stuart L. Seymour
Victor F. Hanson	John L. Fahs
Herbert V. Ingersoll	Arthur B. Allyne
	Wallace C. Penfield

CLASS OF 1927

Raymond C. Perry	Ralph A. Freeman
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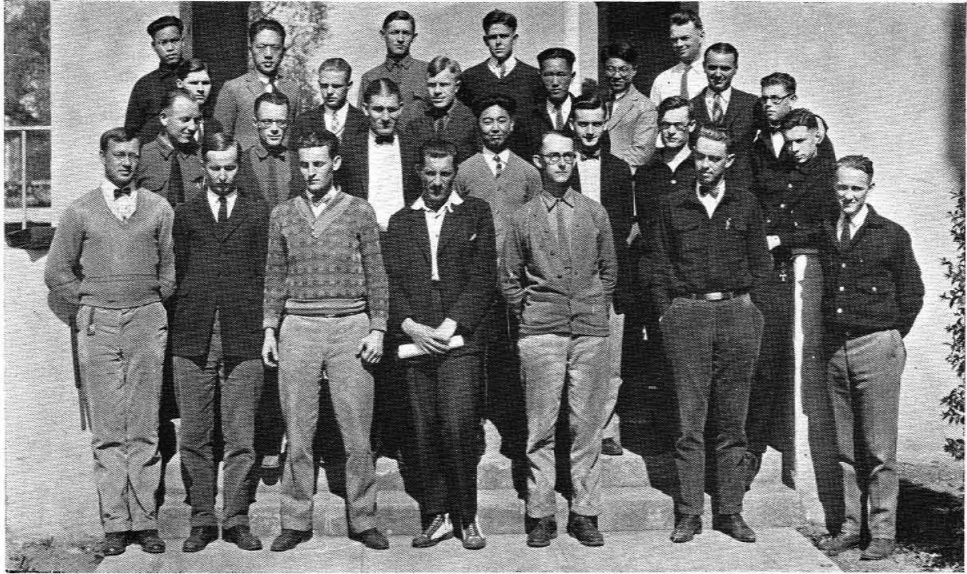
THE COSMOPOLITAN CLUB

In February of this year under the direction of the Y. M. C. A. an organization known as the Cosmopolitan Club was formed. This unique organization is the first of its kind at Tech. The purposes of the Club as set down in the constitution are to promote godfellowship among the students of different nations and to forward the movement of universal peace. The Cosmopolitan Clubs which have been organized throughout this and other countries are a result of a Youth movement, which has endeavored to help overthrow old international jealousies and hatreds and to set up in their place a spirit of co-operation and friendship.

The membership in the Cosmopolitan Club is not limited exclusively to foreign students. American students who are interested in the advancement of the ideals of the organization are privileged to join. The membership list is constantly increasing for a real interest in this movement is being taken by many of the students.

Each meeting is given over to a program by the students who are representative of a foreign country. These banquets have been very interesting and educational to all. Dinners representative of China, Russia, Japan, Mexico, Holland, Germany, France and Amercia have all been staged with great success. A big banquet which was representative of all the nations was held during the third term.

The President of the Club, J. C. Huang, was one of the two student speakers at the Southern California Cosmopolitan Union's annual banquet. The banquet was held in conjunction with the Southern California Council of International Relations. This was not only an honor to the newly formed Club but to the College as well.



OFFICERS

JEN-CHEIH HUANG *President*
 DONALD P. MACFARLANE *Vice-President*
 BORIS ZBRADOVSKÝ *Secretary*
 GEORGE S. KANEKO *Treasurer*

MEMBERS

Alex A. Kroneberg	Hung Yuan Chang
Yu Hsien Huang	Donald P. Macfarlane
Albert E. Byler	George S. Kaneko
Edmund E. Winckel	Frank Y. Murai
William W. Aultman	Gleb A. Spassky
Frederick W. de Broekert	Frey Hamburger
Elmer H. Fisher	Ching-Yun Hsaio
Glenwood L. MacLane	Boris Zbradovsky
Markham E. Salsbury	Curtiss Spelman
J. Caryl Krouser	Harry K. Farrar
O. Seymour Larabee	Michael B. Karelitz
David Bogen	Jen-Cheih Huang
Vadim Sokoloff	Charles Schwieso, Jr.



AERO CLUB

Stimulation of interest in aeronautics, provision for those who are anxious to know more on this subject, and getting together are the purposes of the Aero Club. During the first term, Professor Merrill gave a series of talks on elementary aeronautics to provide those who had only a slight knowledge with a working start on the subject. Inspection trips to Clover Field, the Douglas Factory, the flying fields at San Diego, and other places where aeronautic work is done were well attended. The Club hopes to stimulate enough interest in aeronautics to persuade the faculty to install other courses than the few now given in this subject.

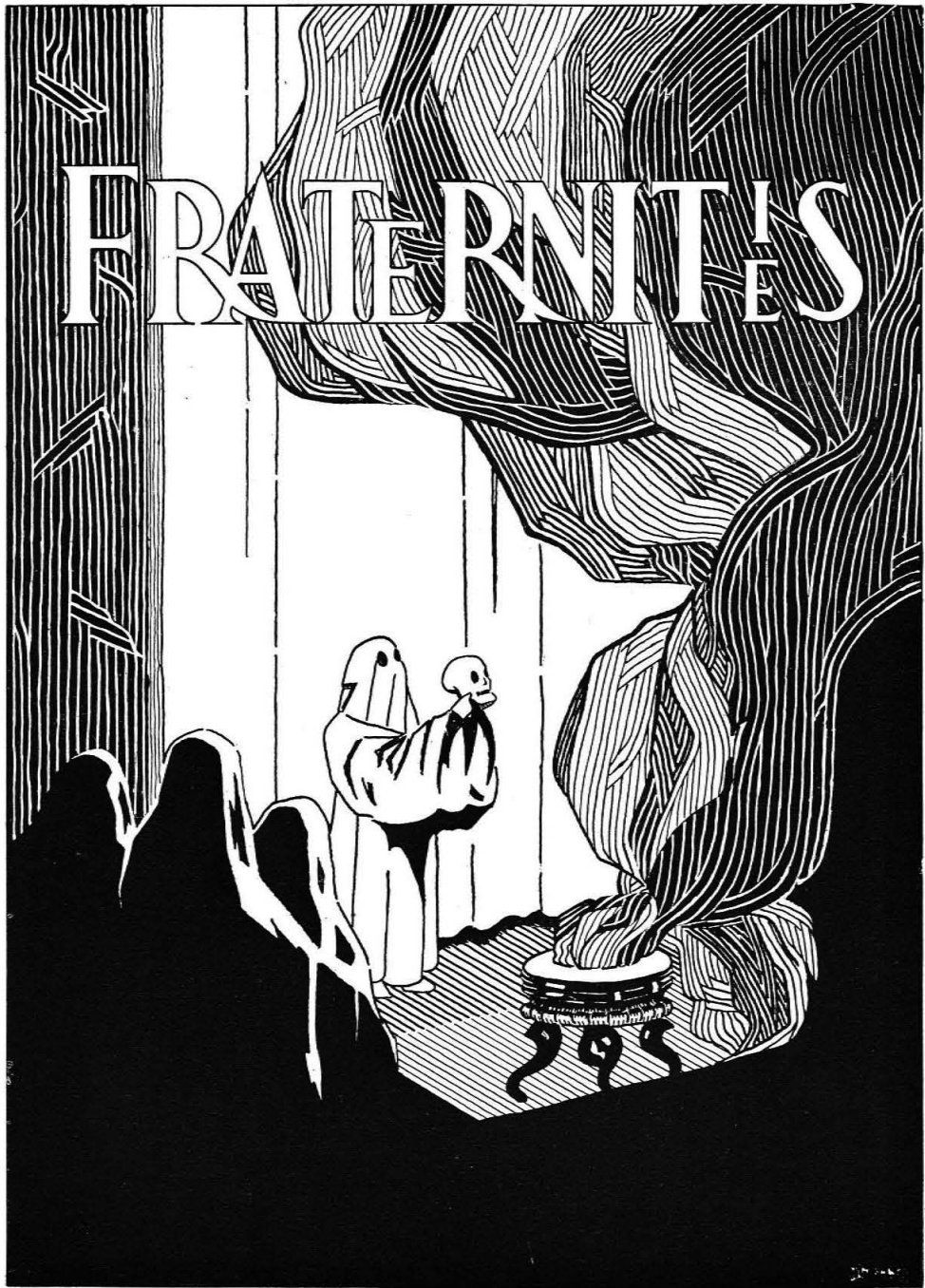
OFFICERS

ROBERT B. BOWMAN.....*President*
 HENRY P. HENDERSON.....*Secretary-Treasurer*

MEMBERS

- | | |
|----------------------|----------------------|
| Carl F. Beed | Eugene Kirkeby |
| Sterling W. Beed | Carl Knox |
| Carl D. Anderson | Arnold S. Lutes |
| Theodore C. Combs | J. Caryl Krouser |
| Thomas L. Gottier | C. Gilbert McProud |
| John S. Goodwin | Richard W. Palmer |
| Mason D. Hanes | Frank F. Petersen |
| Victor F. Hanson | Dick G. Ross |
| J. Henry Gunning | Forrest J. Lilly |
| Herbert V. Ingersoll | Frederick G. Thearle |

FRATERNITÉS



THE GNOME CLUB



(Kappa Gamma)
FOUNDED 1897

House : 289 South Madison Avenue

MEMBERS

FACULTY

Mr. Edward C. Barrett	Prof. Royal W. Sorenson
Dr. Stuart J. Bates	Prof. Clinton K. Judy
Prof. W. Howard Clapp	Prof. Romeo R. Martel
Prof. Robert L. Daugherty	Mr. Walter W. Ogier, Jr.
Prof. Lucien H. Gilmore	Prof. Paul Perigord
Prof. Harry C. Van Buskirk	

CLASS OF 1925

Carl H. Heilbron, Jr.	Markham E. Salsbury
Lawrence P. Henderson	Harold C. Sheffield
Alfred A. Newton	Edwin F. Thayer
Joseph H. Walker, Jr.	

CLASS OF 1926

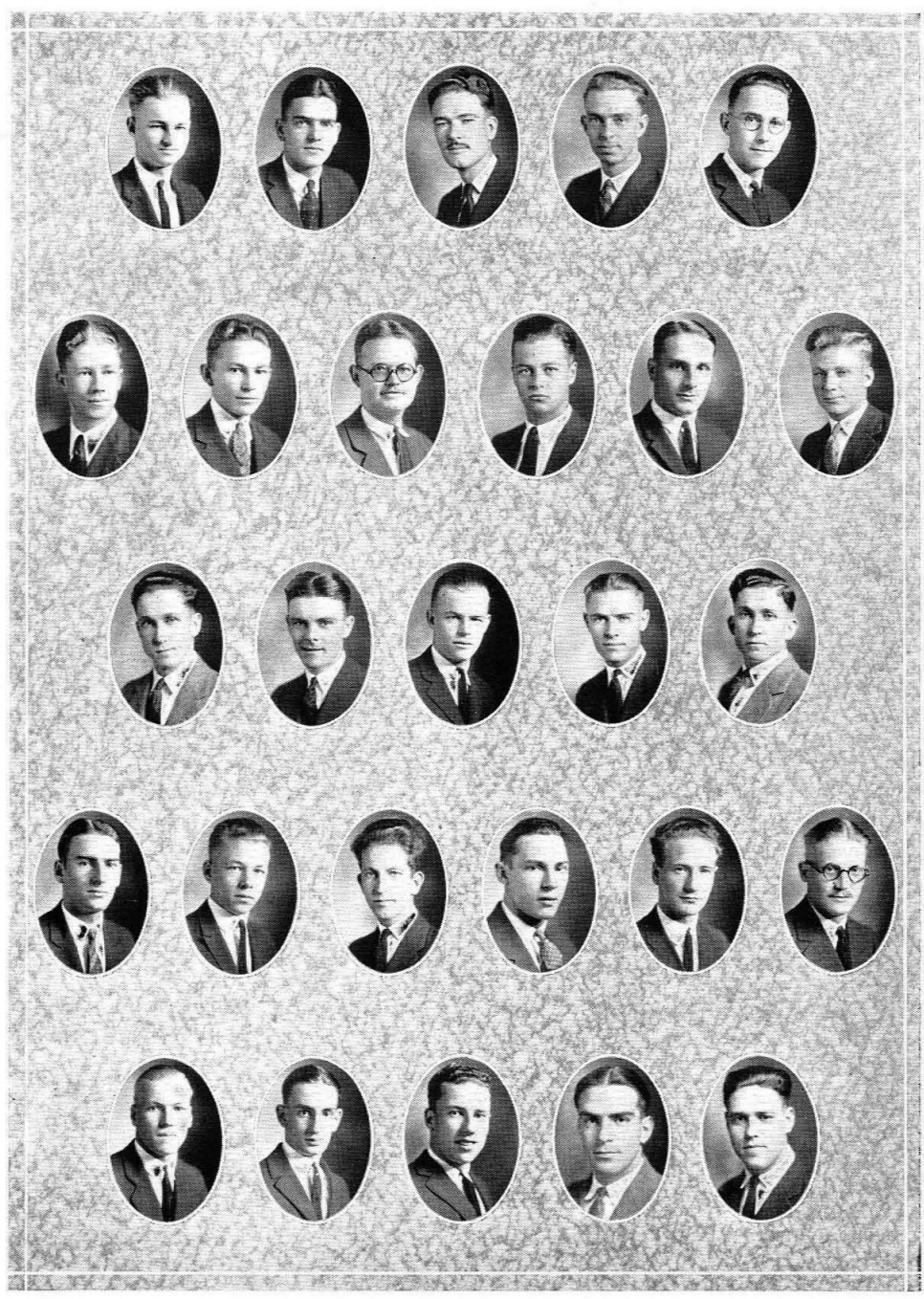
Theodore C. Coleman	Allan J. Morrison
Ray E. Copeland	Wallace C. Penfield
Felix O. Fricker	H. Fred Peterson
Glenn Graham	V. Wayne Rodgers
Robert F. Heilbron	Arthur C. Werden

CLASS OF 1927

Maxwell F. Burke	Clarence L. Haserot
Theodore C. Combs	William J. Hewston
Edward D. Gilmore	Edward P. Jones
J. Henry Gunning	Frank P. Meserve, Jr.
Roderick C. Ward	

CLASS OF '28

Albert E. Lombard Jr.	Guy L. Chilberg
Laurence E. Lynn	Robley D. Evans
Elbert E. Miller	Robert B. Hollingsworth
William H. Mohr	J. Edward Joujon-Roche
Harry A. Peterman	Charles F. Lewis
Kenneth H. Robinson	



SIGMA ALPHA PI FRATERNITY



FOUNDED 1914

House: 399 So. Mentor Ave.

FACULTY

Dr. William N. Lacey Prof. Franklin Thomas
Prof. Graham A. Laing Prof. George R. MacMinn

CLASS OF 1925

Raymond E. Alderman John E. Maurer
Michael C. Brunner Bruce H. Mills
Samuel L. Diack Leroy Newcomb
Frank M. Foster Glenn M. Schlegel
Albert J. Ferkel Robie T. Watkins

CLASS OF 1926

Jack C. Baker J. Edward Kinsey
J. Stuart Campbell Lawrence G. Maechtelin
Leroy Dixon Joseph Matson, Jr.
W. Stuart Johnson Leonard W. Ross
Samuel Parnall

CLASS OF 1927

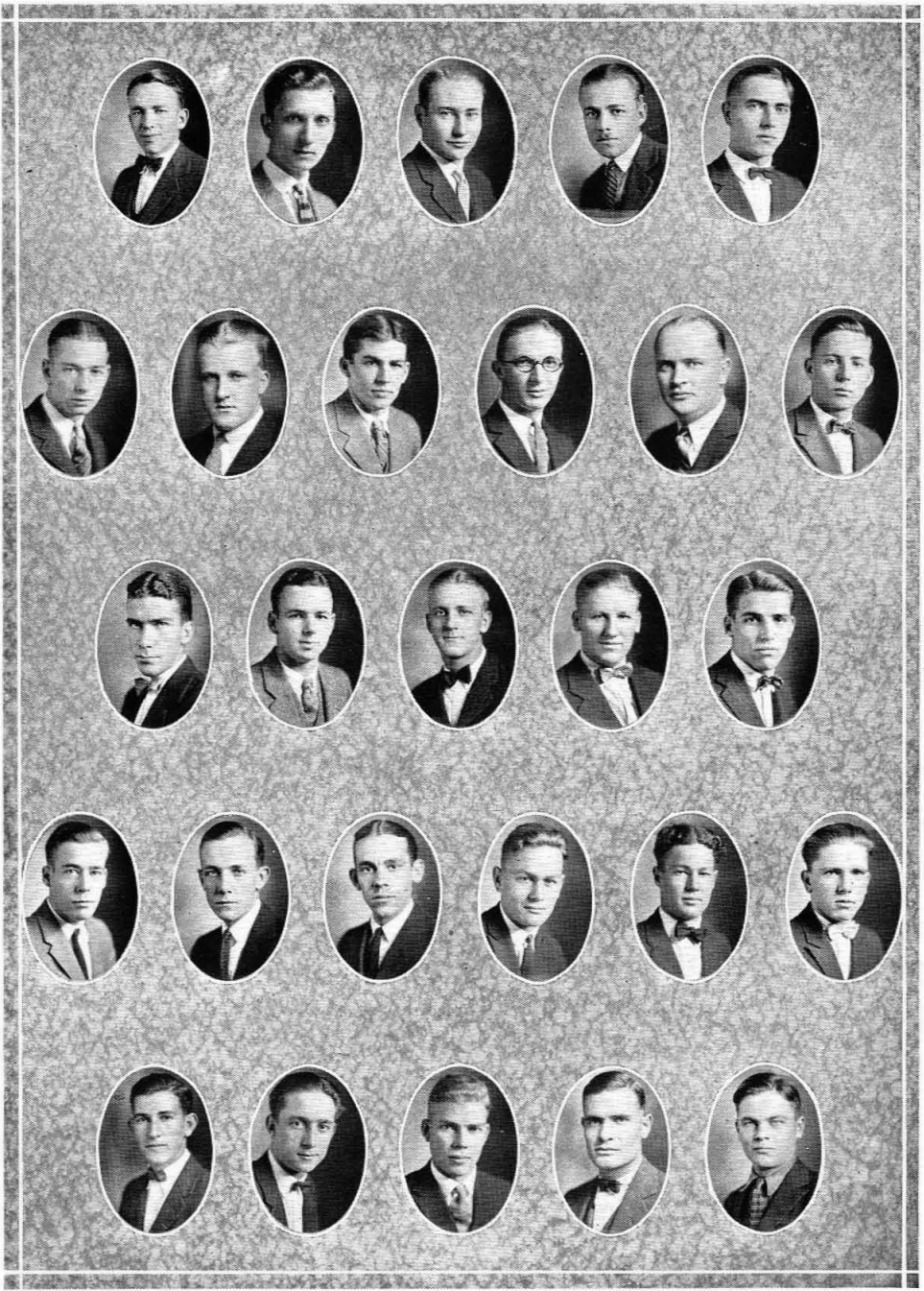
Mason A. Logan Thurman S. Peterson
Frank A. Nickell Lee W. Ralston
Lewis W. Olsen Layton Stanton
Aubrey B. Upward

Pledges

Harold F. Huggins
Frederick T. Schell

Class of '28

Philip T. Durfee Kenneth R. Crosher
Richard G. Folsom John S. Goodwin
Wallace S. George Franklin C. Hicks
James C. Scullin



THE PHAROS FRATERNITY



FOUNDED 1921

House: 447 South Lake Avenue

FACULTY

MEMBERS

Dr. Arthur A. Noyes	Dr. Clyde Wolfe
Prof. E. Charles Watson	Prof. Howard J. Lucas
Dr. Ernest H. Swift	Mr. Ira S. Bowen
Mr. Robert T. Knapp	Mr. L. Merle Kirkpatrick
Mr. Donald H. Loughridge	

CLASS OF 1925

Carl F. Beed	Sterling W. Beed
Norris F. Bravender	Ben E. Hess
James E. Moore	

CLASS OF 1926

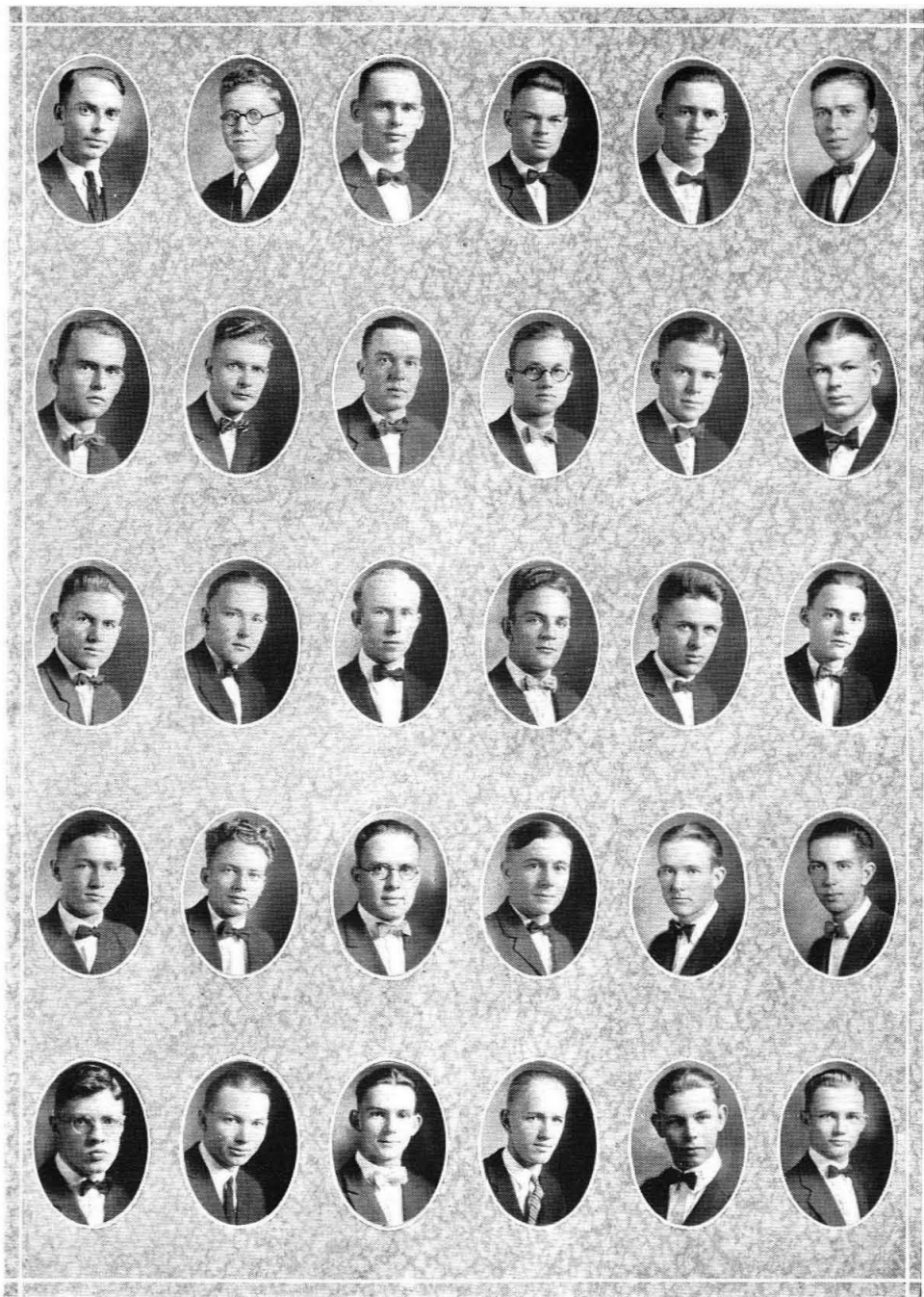
Alpheus M. Ball	Orrin H. Barnes
Roger B. S. Bryan	John Buxton
Philip T. Dunlap	Herbert V. Ingersoll
Allen L. Laws	Donald P. Macfarlane
Kenneth C. McCarter	Earl R. Peterson
James H. Smith	Donald S. Stone
Joy A. Van den Akker	Baker Wingfield
John L. Fahs	Victor F. Hanson
George E. Moore	

CLASS OF 1927

Ellery R. Baxter	F. Harris Cloyes
Lewis E. Medlin	Leonard L. Snyder
M. Maxwell Bower	Rudolph C. Blankenburg
Elmer H. Fisher	Harry K. Farrar

CLASS OF 1928

George W. Weego	William L. Berry
-----------------	------------------



PI ALPHA TAU FRATERNITY



FOUNDED 1921

House: 355 So. Oakland Ave.

FACULTY

Mr. Fred J. Converse Mr. Francis W. Maxstadt
Dr. Walter T. Whitney

CLASS OF 1925

Tracy L. Atherton Edgar M. DeRemer
O. Seymour Larabee Leo M. Miller
Leland B. Prentice Paul E. Noll
Edward D. Cornelison W. Douglas Sellers
Stephen W. Kingsbury, Jr. Caryl Krouser

CLASS OF 1926

C. Hawley Cartwright Harry Remington
George R. Kaye George W. Russell
John E. Michelmore Frank Streit

CLASS OF 1927

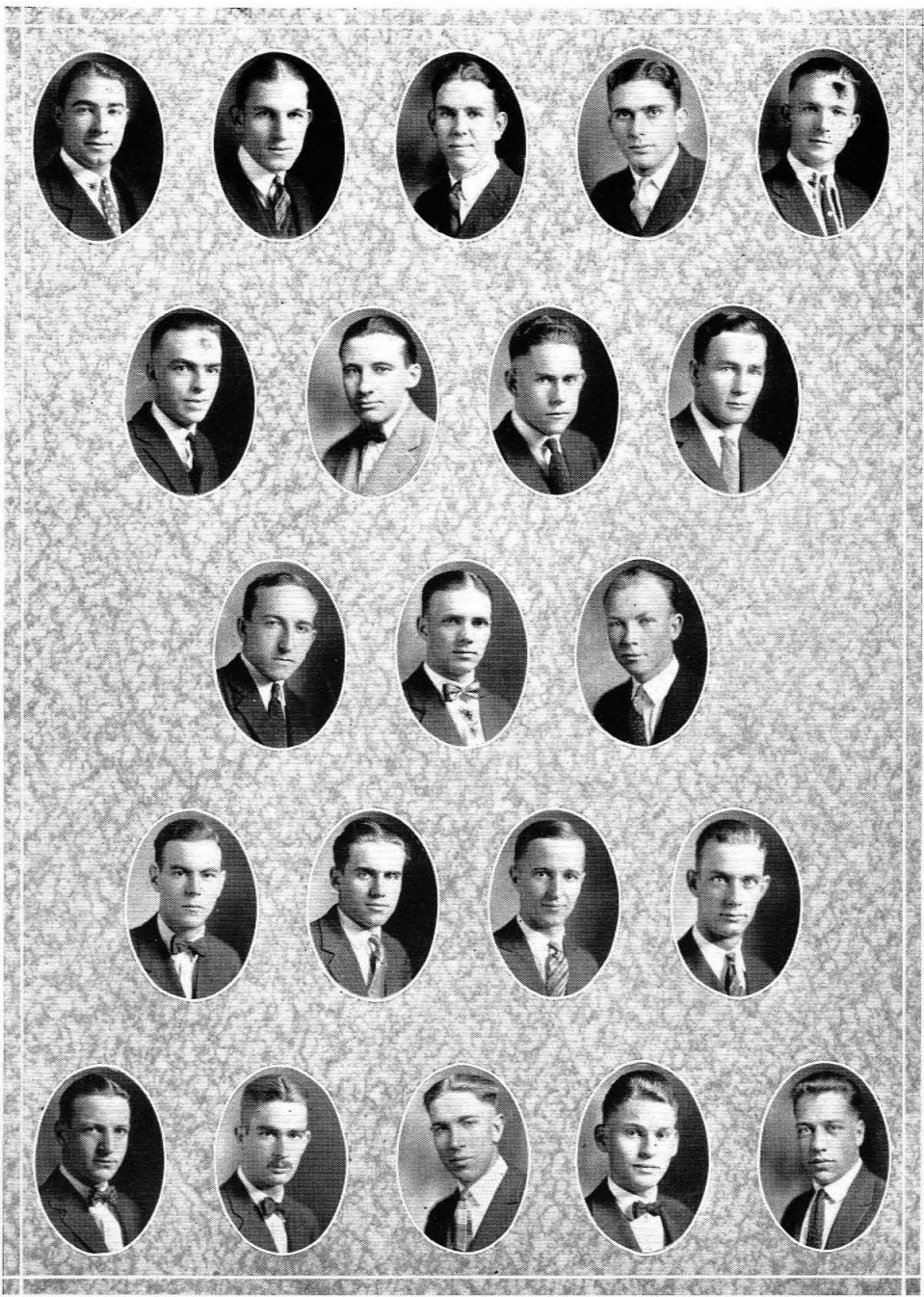
Ralph Freeman
Richard T. Scheck
Norman B. Hume

Pledges,

William D. Crane, Faculty
Kenneth A. Belknap '27

Class of '28

Harold M. Huston Thomas H. Compton
Glenwood L. MacLane Anthony W. Gray



The Big G

GAMMA SIGMA FRATERNITY



FOUNDED 1925

House: 35 South Wilson Avenue

CLASS OF 1925

Robert T. Dillon
Robert W. Fulwider
Wesley C. Hertenstein

CLASS OF 1926

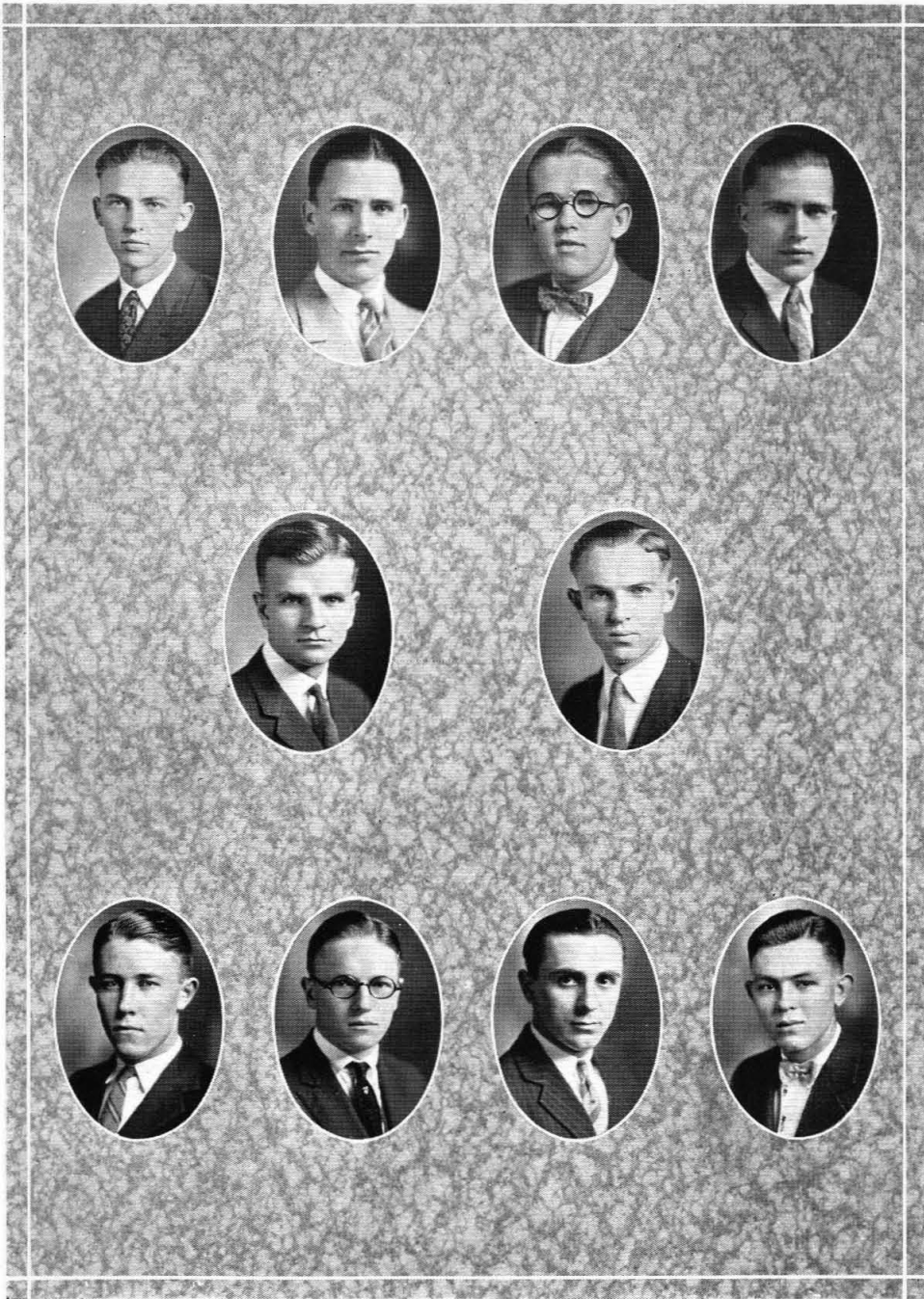
Arthur B. Allyne Domenick J. Pompeo
Robert B. Bowman Stuart L. Seymour

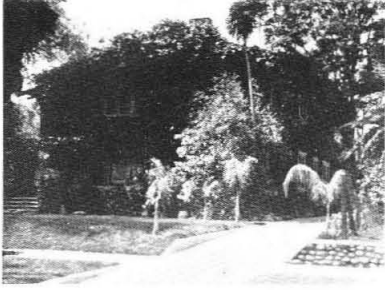
CLASS OF 1927

Charles A. Bradley, Jr. Karl W. Westlund
Albert Drasdo

Pledges

Forrest J. Lilly, '27 George E. Crocker, '26
Edward C. Ward, '26 Allan Hughes '28





SIGMA ALPHA PI



GNOME CLUB



PHAROS



GAMMA SIGMA

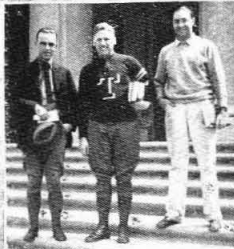


PI ALPHA TAU

two hundred twenty-eight



"PLEDGES"



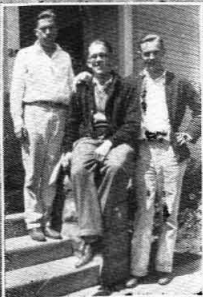
Sigma +



Pi Alpha Taus



Gnomes



Gamma Sigmas

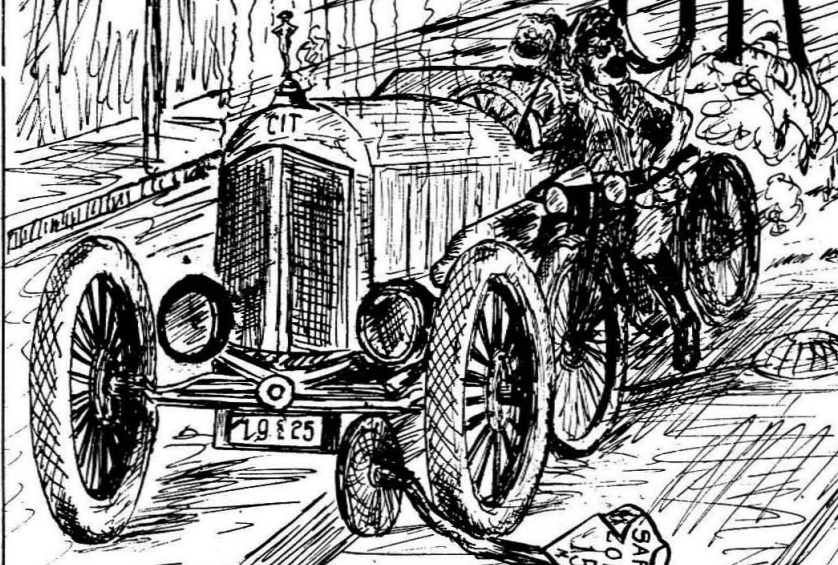


"PHAROS"

YE FRATS



HUMOR



Did You Ever Hear
This One!

SAFETY
ZONE
15'

Steve
128

The **T** Big G

"TWICE TOLD TALES"—Our 2-Act Play

"Evolution"

I

—College Days—

1925

Scene—The Senior Civil Room at Tech.

A large, simply furnished design room with drafting tables, over which a dozen or so handsome engineers sprawl, drawing fine lines or the long breaths of the sleep of the weary. All is silent, save for the deep regular breathing.

Miller—"Yeh, Carl, you have to design the roof to screw the sky-hooks to, or the structure is statically indeterminate."

Carl—"Applesauce! Why, I once saw a ten-story office building in San Diego—"

Miller—"But this is a warehouse to store prunes in."

Alderman—"A Native Son Convention hall, eh?"

Foster—"Bum joke. Bum Joke. Who's got a match?"

Enter the prof.

Prof.—"Good-day, gentlemen. And how is the design getting along?"

Eddie Winkle—"I'd hate to tell you."

Chorus—"Amen!"

II

Forty Years Later

National Convention of the A. S. C. E.—Committee meeting.

A group of elderly and eminent engineers in solemn session. They are old friends united for the first time since 1925.

Mr. Miller—"Yes, gentlemen, although my eminent contemporary disagrees with me, I contend that a roof must be designed to screw the sky-hooks to, or else the structure is statically indeterminate."

Second eminent authority—"I beg to disagree with my learned friend and life-long acquaintance. I have here the designs of a 77-story office building in San Diego—"

Mr. Miller, impatiently—"Granted—but I wish to remind my friend Carl that this is a warehouse to store prunes in."

Mr. H. Alderman—"In other words, a sort of, well, a sort of Native Son Convention Hall, eh? Ha-ha."

Dr. Foster (hollow laugh, which praises with faint damns—we mean, damns with faint praise)—"Ha-ha! My worthy colleague jests? By the way, do any of you gentlemen possess a match which I might use to ignite this weed?"

Enter National President of A. S. C. E.

N. P. A. S. C. E.—"Good-day, gentlemen. And how is the discussion by the consulting committee on sky-hooks progressing?"

E. Van Winkle, A. S. C. E. Amsterdam—"My dear sir, it would indeed pain me to be forced to tell you."

The group—"You said it, kid!"

(Curtain)—Exit March—"Swim the Billowing Sine Waves."



POPULAR CANDIDATE TO RIDE INTO OFFICE ON REFORM WAVE
 HOWLING GULCH, ARIZ.—May 30, 1925 (By hot wire).

The political element of this fair town has been thrown into seething turmoil by the announcement that Wild Several-Gun Bailey, R. O. T. C. terror of Twin-Tornado Township and all adjacent territory, has, under pressure of his friends, consented to be a candidate for sheriff on the reform ticket for Howling Gulch. He threw his stetson into the ring early this afternoon and by three p. m. three candidates of the opposition were suicides.

Wild Bill first achieved notoriety during the Philippine Campaign when he took, single-handed, the impregnable stronghold of Arena Torillo and put the survivors to death with tabasco.

Later he saw service under Wildcat Kramer, Lt., C. of E., late of Caltech., and during that time successfully mapped the fastnesses of Darkest Oak Knoll, receiving for his exploit from the Sultan of San Marino the Order of Third Horseman of the Applesauce, Grade-A, Certified.

Lt. Kramer, upon interview, expressed his gratification at the news. "Bill," he stated, "is the man for the job. I have an international reputation for terse pyrotechnic comment and commanding air, but I owe my success and fame to my old teacher, Sergeant Bailey, my friend and severest critic." The iron man of the Army turned away and swept a large team of emotion from his browned cheek with a handful of steel wool.

Upon interview the popular candidate stated his views.

"My platform? We don't use 'em. Lumber's too expensive for scaffolds. We just string 'em up from telephone poles. Oh, I see—you mean my campaign slogan, it's for reform—'A Hanging a Day Keeps the Bad Men Away.'"

At this point Several-Gun Bailey took a sighting shot at a frosh straying across the campus. The frosh was wrapped up in the Dorm Welcome mat and buried at once, with military honors and a 4 in the course.

NOTE—The accompanying picture and insert were dispatched by Toothpix Telepathic Transmittal Process over high-tension, for exclusive rights of this publication. Mr. Bailey kindly consented to pose in characteristic attitude with a favorite Camel Maduro. He is of a genial personality and loves children and fresh freshmen.

A SIMPLE STORY

A piercing wail and a low moan cut the surrounding gloom like a knife. In the near-distance a ray of light from a 16 candle-power, carbon-filament, 42 B. C., light bulb broke through the murky haze of the indigo-tinted interior and relieved the drab monotony of the scene. On a couch which faced the synthetic insouciance of a pseudo-fireplace two figures could be faintly discerned, huddled together and seeming like one in the dusk-light. Suddenly one of the figures arose and walked over to what appeared to be a safe hidden in one of the dark recesses of the room. She, for it was the figure of a young and sprightly girl which passed between us and the light, turned a few dials. The moaning and wailing ceased. She returned to the couch and the two figures once more merged into one. A low sigh escaped from her lips. She smoothed his sleek-looking hair tenderly. He moved restlessly and yawned—apparently bored. He lay snuggled in her arms, obviously asleep. She did not seem to care. Her thoughts wandered. She thought of the immutableness of the immutable but her mind failed to grasp the vastness of an immeasurable infinity and she began to contemplate the desirability of more mundane ambitions. He stirred in her arms. She gazed adoringly upon him, impulsively, she kissed him on the forehead. This evidently awakened him. More than that, it seemed to arouse his passion. He tried to bite her. This, she felt, was going entirely too far. He was evidently capable of taking advantage of her momentary, impulsive, naive, show of sentiment. She rebuked him. He persisted. This was indeed too much. Grasping him by the back of the neck, she took him to the door and turned him out into the cold cruel world.

These poodle dogs are treacherous little rascals.

A friend of ours, in a hurry to dispose of some home brew, poured it into the goldfish bowl and departed through the back window before the dry agents forced the front door. He escaped. When he returned he found that the fish had eaten their way through the bowl, killed the cat, overturned the kitchen stove, and were engaged in polishing off the family bulldog.

HISTORY AS IT IS NEVER TAUGHT

No costly cloth-of-gold tapestries
adorned walls. Nought covered the floor save
a little straw and the slightly
flat feet of the concave-witted Inquisitor. Picking
up a conveniently located skull,
this black robed figure threw it vigorously into the
pile of straw in the corner.
Sleepily Joan arose, an expression of bored saintli-
ness in her eyes. "Arise,
Joan, the stake awaits without", thundered the blood-
bedrizzled one with evident
relish. Joan brightened at once, hissing, "Without
what?" "Without onions",
cynically spake the stalwart man of God, and crawled,
reeking, from the room.



NEW YORK TO BE SCENE OF PREMIER SHOWING

Scene from "Doraldina." "No! Poppa says we can't come out!"

The superstrata of the film world are all agog over the announcement that the new photodrama "Doraldina" will have its initial showing at the Hippopolitan, in New York City, on July 1.

Unquestionably this is the most powerful picture ever attempted and to the Metroflam-Woozyversal goes the credit for the achievement.

Of greatest interest, however, is the aggregation of stars gathered to enact the difficult roles. Most notable is Mr. Alfred Newton, author, philosopher, engineer, political economist, politician, art lover, playwright and producer of the famous Campus Cuties Chorus.

Among others supporting him in the stellar role are Miss Vera Pfander, as Throopita, the financier's secretary, Helen Pfusch, as Technita, the flapper, and Katherine Lathrop as Katinka, the Smiling Maid.

The plot revolves about a Y. M. C. A. secretary sorting mail, a wrong telephone number, and love under a Spanish moon. Bull fight scenes enliven the continuity. Mr. Newton, who possesses emotional appeal to no mean value, plays the moving part of Alfreddio, the cavalier from Venice (of America).

ALL was prepared in the temple. The priest stood with upraised arms and the populace lay prostrate on the floor while thin streams of golden sunlight intensified the gloomy interior of the massive edifice. Suddenly a blinding flash appeared accompanied by a loud peal of thunder and lo! there stood the great god Izehouz in all his splendor. And he raised his hand to enjoin silence, but there came the small tinkling of a bell without—without what?—without apparent cause. And the priest emitted a nervous laugh as he said, "I really must be leaving now: my wife calls me". Then he took his departure and his umbrella and left.

SQUEEUNK DAILY EXPULGATOR

V61 00

- "The World before You Lies" -
"And Lies and Lies"



GIANT LEMONS-Buddy Coleman aged 3, displays two large lemons from the ranch of Mr. E.C. Barrett. One of these citrus monsters has a circumference of 3 inches.



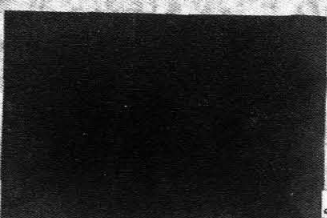
NEW ATTORNEY GENERAL was hussy as this photo taken 5 yrs. ago would indicate, when he tipped the scales at 300 lbs. The Attorney General has since shed 100 lbs.



THE RATCATCHER OF PARIS is the proud title of Henri Dayve, accounted as one of the French Capital's most valuable citizens. Dayve has warred on the rodent population for over 40 years.



PRIZE EUROPEAN BEAUTY- In a recent beauty contest in Vienna, Mlle. Liane Haide was awarded the 20th Century Venus Trophy. Her auburn and unbobbed hair, pretty teeth, brown eyes and flawless features have won her popular acclaim.



MR BRYAN is here seen urging the Legislature to prohibit further Evolution in California. (Thayer photo)



SOUTHLAND EAGLE AT HOME This unusually clear photograph of an eagle's nest on the rocks at Waits shows the King of Birds and his mate at home. The female (below) has a feathered victim in her talons. An egg is seen in the corner at the right.



YEAR 1918 OUTLINE IS THE PINK OF MILLS. BEAUCHAMPEL'S POPULARITY KNOWN AS THE "GIRL OF THE YEAR" WILL TRANSFORM AN APPROXIMATE DISSENTIENTS SUCH PROBABLY BEING BY THE LATEST BRITISH.



The **THRILL** Of **POLO** has recently captivated the society girls of the Tech Night School. Miss Coresa has just missed the ball seen between the horse's legs.

VICE-PRESIDENT DAWES sits for the first photo made of him at his desk at the Capitol. The Vice-President doesn't go in for formalities. (McFroud photo)

THIS PAGE MUST BE READ WITH A MAGNIFYING GLASS. Ed

TO THE SENIORS

THE time has come, young men, when you must leave the halls of learning, where you have spent so many profitable hours in preparing yourselves for the great tasks which lie before your generation.

You have learned much, young men, in these crowded years which have just rolled by. You are courageous, you are able. You are powerful and mighty, lords of your Campus—you admit that. But before you leave, ponder, gentlemen, and think, before, years from now, it is your time to become Seniors of the Morrow.

In Kipling's words:

“Be humble, oh my people.”

And herewith, to drive it home, are the wails of an outraged sopomore: “Just who is this whole-hearted lad that claims that the grand old class of 1925 is about to jump into the order of grads and leave the school in the flat-tire class? From about the first of April until the guys who has their names in the faculty section of the catalog begin to plan their little blessings to be mangled by the blue books, every brow in the lot collects wrinkles big enough to be due to income taxes.

The youths about to don the plaster board and apron flubb around the campus taking a last look at the dear old landmarks that they have helped to bust and put together again. For four years they have messed up the plans of some class and what the heck is the old Alma Mater going to do for a steering wheel in the future. Rome fell and now it looks like dusky days ahead for the joint, at least to hear them eggy Seniors lay on the bolony.

If it wasn't that all the Juniors wear corduroy pants a foreigner might think there was a double load of Seniors. These last-mentioned like to explain their general skinniness by saying, “Yes, brother, us Juniors lugs a heavy jug of responsibility. Them dumb Seniors would of had the school on the rocks in two weeks if we hadn't been around to grab the wheel. And Blood and Thunder, them red lumber jacks couldn't have held down ten Frosh without us boys around to say the last word.”

Hot cow, now comes the bozos as claims they has the real kick coming. Them lads, the Sops, has got to watch a flock of Frosh that would have made Adam throw the apple clean over the fence if he could have seen what was coming. Besides they has them high-hat Juniors to fuss with or they'd get the Frosh to feeling like the cat's nippers, dang a Junior anyhow. If the Seniors and them aforesaid critters was to get on their mule and do a little work the Sophs say as how they could study a little instead of running the Student Body.

The Frosh has got their young bright faces turned toward the horizon of success and don't see what goes on around them until they has flunked out or won a travel prize. (Watts to Azusa.)

I sees by the evening paper where some guy has collected a lot of names of colleges as has been going for some time. This guy claims as how there's been some high-powered boys turned out by these places and so I figure that no matter how much a class worries or whoops around that it is going to tear over the top with some dang goods grads.”

BE TOLERANT

AIN'T IT THE TRUTH

What do I miss since I graduated from old Caltech? Let's see:

Frosh chemistry—be yourself! Assembly—pass it by. Perhaps the Dorm, ah, yes of course—I cannot tell a lie. The scuds we used to throw—well, yes. They surely were some fun. I like the Tech with its news and verse from H. Fred Peterson. I miss the book stores methods, weird and strange; the profs and Van B's slips—examinations, eliminations and traveling scholarships. There are lots of things to leave behind e're I part for the Happy Isle. I'll remember best, and miss the most—Katherine's famous smile.

ONE ACT PLAY

"Cover me with paving blocks,
And a bitulithic finish."

Song of the C. E.

ACT I.

(And only)

Scene—E. Colorado Avenue.

Time—Choose your own.

Characters—Two, without.

"Ooo! Lookie!"

"Oooo! Where?"

"Ooooo! Runnin' down the street!"

"Oooooo! What's runnin' down the street?"

"Ooooooo! The curb's runnin' down the street!"

(Crash—Thud—Darkness—Asbestos).

EXIT.

A RUSSIAN ROMANSKY

Ivan Moranskovitch and Olga Petrogradski were sitting out a dance—sitting it out under the winter skies. Around them stretched the vast plain of Russia—stretched 'till it cracked or perhaps it was only snapping with the cold.

The wind howled and so did the wolves; the only difference was that the wind bit the arms and legs of Ivan and Olga while the wolves only wished to do so.

Suddenly Olga sneezed.

"Whatski?" he queried.

"The wind is getting freshowich," she answered.

"Shall we go back in to the danski?" he asked.

"No," she said, "I despise the fox trotsky."

Around them the wind raved and so did the wolves.

Again Olga sneezed.

"Yes," he answered, "what's wrongawich?"

"Oh, the cold is creeping up my legski," she shivered.

"I hate creeping things!" said Ivan savagely, "shall we go inski?"

"Yes," she replied, "I'm afraid I'll catch my death of cold sitting out on these cold Steppes."

—Ziffs.

INSUFFICIENT STATIC

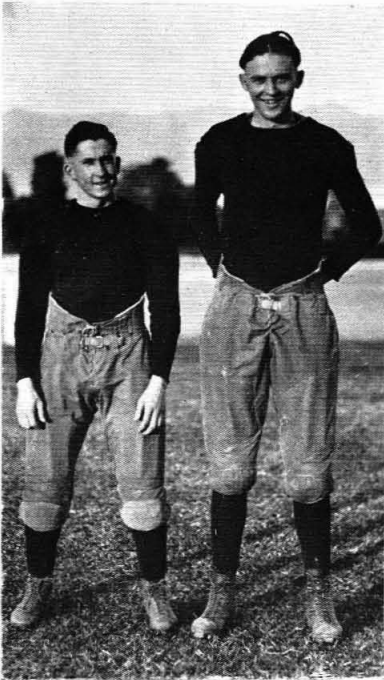
Radiola Van Bla Bla, Technita's short-circuit sister, says this radio age is excruciatingly fascinating, and that she is so interested. She has a three-stage hippodrome set, so-called, she says, because you can get three places on it at one time. She says she wants to buy a Robert's hook-up to keep the antenna from sagging when the heavy notes come from Phil Harmonic's Orchestra playing at the Cocoanut Orchard. It's something like sky-hooks, she thinks. She can get distance, too, she says. Right in Altadena, think of it, she heard Ray West's orchestra from Egypt; Alexandria—they said so.

She says Aunt Enna, inventress of the aerial clothes line, is Uncle John's sister, and she intends to get a bottle of neutrodyne for her hair. These ether waves are harder on it than marcells. Watts, the things that run around in the tubes, are so named for station P. E. Ry.

She's going to buy some audio-transformer, which is a new kind of beauty clay to make you young over night.

As soon as she gets her new set she thinks she can hook up with the Edison lines and get Big Creek, which has a very powerful station.

We hope she does.



NEW COACHES

GIRLS SAID TO BE HIGHLY ENTHUSIASTIC

It was learned upon authority today that Gloomy Gus Copeland and Knut Seymour, the two All-Alhambra football stars of 1925, have been engaged to coach this season's football team of the Cumnock School of Expression.

Both men are well qualified and a great year is expected by the fans.

When interviewed Gus replied in his usually loquacious manner with an expression "hummmm."

Upon interview, Seymour, the tall stein on the right, exclaimed, with his famous expression, "I'll be ducked!"

The Big T

IN accordance with the accepted traditions of Tech there has been prepared a brief resumé of events and instances of the year we've left behind us. Perhaps now, and more so in future years, we may regard these happenings and high-lights of our crowded and hurried existence more in a vein of humorous retrospect. For college life is funny.

Here Follows:

OUR YEAR . . .

FIRST TERM

The old Instipoot function again. Put up your 10-to-1 bets with the Faculty.
Mr. Atherton arrives from the East.
Hello to the office force.
Kate holds reception.
More frosh. Were we ever like that?
First assembly. Chaplain views the audience and prays for the school.
Frosh hoist emerald banner. Frosh sing. Frosh get wet.
The Tech makes its first appearance for the year.
Someone writes "Idylls of the Dorm" a la Tennyson.
King Wilson I, Emperor, Rex, Independent, and by the grace of Write-in.
Duke Dormenia, decrees exclusion of foreigners from his realm.
The Technics Column appears. Messrs. Freeman and Kingsbury make their bow.
H. Fred Peterson plunges into poetry.
DuMond talks to Judge Cox.
That Terrible Tie-Up! "To the victims belong what is spoiled." Question—Who won?
Hotel Buena Vista Del Campus becomes more exclusive. "Welcome" mat buried.
Hotel Buena Vista Del Campus razzed.
Frosh take a day off and dust off the "T" on the mountain.
Those Chemists meet.
Senior Civils hold beach party at Hyperion.
The "Y" appeals to the school at large.
Vandals stack frosh rooms at dorm. Quaint but usual custom thus observed.
H. Fred Peterson bursts into song.
Apollo turns and gets his picture took. Mr. Newton waxes eloquent on art and appreciation of same.
Seniors meet.
Seniors scrap. What shall it be—stetsons, sweaters, canes, whiskers?
Clothing dept. fracas hushed up. Seniors try sweaters.
Some Seniors buy sweaters.
King Wilson razzed.
Chappy and Kitty Bowman vie for sweatshirt design honors.
Weather turns cold.
Dot Sheffield blossoms out in cross-word puzzle cootie-castle.
Kitty and his cats capitulate.
Sheff organizes the A. S. S.
Armistice Day. The Beaver almost mangles the Tiger.
All persons with nothing to wear at Dugout dance.
DeRemer shaves.

Farina is declared mushy. Ralph and Steve heart-broken.
Thacker & Perry, date specialists, go into solution.
Junior Edition appears. Give us air!
Faculty decides to hold regular three-hour exams. Did you ever know it to fail.

SECOND TERM

Place another bet on staying.
Hear all of the "What we young devils did on New Year's Eve."
Ten good men and true put out the Rivet, with Spanish sauce.
Juniors fail to see the point. "The truth is always a beautiful thing"—
Jack Fahs.
Martel turns down circus-tour offer. Great rejoicing.
Chappy becomes Tech humor editor.
Those chemists once more.
Chappy picks on Rivet editors.
Military Department makes precise reconnaissance for rifle range. Gnat's eyebrow accuracy.
Phormio is produced.—Thayer struts his stuff.
DeRemer shaves.
Sophs put out edition and irritate Juniors. Juniorth get tho tough and pugilithtick.
Oxy Girls Glee Club sings. Tech hears "The Dirty Engineers", to music.
Mr. Alderman tries to hide something.
Tech-Nite comes! Al Newton and his Beauty Chorus cover themselves with undying glory.
Yellow striped cat walks into Geology class, March 10th.
Geology specimens limited to 10 pounds.
Open season for politicians.
Faculty entertains with three-hour functions.
Greek letters tangle at Annual Inter-fraternity Ball at the Huntington.

THIRD TERM

The faithful congregate.
The faithful render tribute unto the coffers of the Mighty, and once more take up the labor.
The Seniors take life seriously at last.
The military department forsakes rifle-ranges for construction work.
And lo! The annual bridge blossoms forth—Ain't it shaky?
Tech holds Exhibit Day. We didn't know so many girls were interested in the place.
Dorm dragout held in Dugout.
Frantic eleventh-hour efforts to complete Annual. Nervous prostration avoided.
Seniors hold Ditch Day near the bounding main. So do some Branch co-eds.
Seniors buy pretty graduation announcements.
Martel gives good advice.
Ordeal by examination.
The flower of Tech dons the shroud and monkey cap—and walks the plank.
Juniors and Seniors entertain at dancing.
The expression—"When we went to college" now in evidence, for:
Our Year is over : AMEN.



A DIZZY REELER

AFTER THE MANNER OF GLADYS MURGATROYD

CHRISTMAS vacation found me dashing back to dear old Hootville, where the family hearth is located, to say hello to the parents and look over the weenie who used to be my little playmate. Lady! How they had blossomed forth—so I immediately excited a crush on a returned co-ed and Edna



EDNA

and I dashed forth nocturally. She was my pardner on all occasions. Then one night some duke from a nearby village crashed the sequence.

Angrily I called another number, Helen's. Helen was Edna's chum and I thot a little of the greeneyed monster might cause the maiden to ponder. After I'd been there an hour I decided I was glad I'd come—she wasn't exactly the kind of maiden who had to join the Y. W. C. A. to get a social side to her college life.

But, Swearword! the next night exactly the same answer from Edna but

more of the old horse-shoe luck with Helen. During the evening the original woman was as forgotten as a just-emptied Scotch bottle and then I found how bleak my past life had been.

Icebergs, Alaskan scenes, storm-tossed shores of Maine etc.—

HOWEVER, true love runs like a 1912 Ford and the next night it hit a chuck-hole. "No. Helen has an engagement" and she beat me to hanging up the receiver.



BERNICE

"Bernice", I said—Bernice handled the town exchange—"Ring one of your good numbers for me."

Presently a sweet voice tinkled in cordial greeting. I revealed my identity and we poohed the weather. Then I invited her to a frankfurter-frolic or something. She sighed up and after a two-minute conversation on nothing, we said good-bye, her receiver clicked and I inquired, "Well, Bernice, who is the lucky bim?"

"What nice compliments you are always receiving! That, Darling, was Edna."

They revived me an hour later.

"Yes, father, another three-fingers"—Haig and Haig.—

NO retrieving, the terrible work has been done;—I pictured her as I thot she would look turning away from her phone—patting herself on the back



HELEN

with both hands and with her egotism puffing up like a defective inner tube—and then she'd stop in front of that big old hall-mirror and compliment the proud beauty who had flopped the shiek of old Caltech so hard that after taking two defeats he'd crawl back a third time and risk another.

I'd unconsciously done myself do it—nothing to do but get all the satisfaction I could out of making her evening uncomfortable.

“'Twas a dark and stormy night”—Sergeant Bill's Story—

She spouted the usual blah and I began to wonder what in Iowa I had seen in her in the first place. Then I fell into a reverie over Helen. She was a model for you—brains, brawn, and beauty—the angleworm's arches—one in a million—the kind of a girl you could rave about without being drunk. But what was this Edna was expecting me to listen to?

“—Helen over at a tea at Mary's this afternoon and she and I were discussing you and I happened to remark that you had friends calling and were unable to go and I saw right away that she was getting redder and redder and——”

But I'd gone back to that semi-conscious condition which in me denotes thot. How could I notice that Edna had capped the gas stream as I muttered my conclusions to myself, “Mmmmm, I'll bet that's why Helen gave me the air this afternoon.”

BAAM! At first I thot I'd hit a telephone pole, but I found out later in the evening that she was a handball player. What an awful way to come out of my first deep thot. And then I readjusted my map into a good hearty smile and I've worn it ever since.

SWEET GIRL GRADUATE

Passing fair was she—
Yea, passing fair.
And it was darned good for her
She seemed so fair to her love-struck prof.
For her grades were
Anything but.

Judge—“So we caught you with the bundle of silver, eh? Whom did you rob?”

Culprit—“Two fraternity houses, your honor.”

Judge—“Sergeant, phone all the downtown hotels and have them claim this stuff.”

—Carnegie Tech Puppet.

THE following is suggested as a form for social and business correspondence for the snappy and efficient young man who has not the time to devote to lengthy preparation of correspondence.

Several types of form may be prepared in advance. The following is for business-social reminders and is mimeographed by the thousand. The parentheses are then inserted as needed.

The letter shown is for a social reminder. The parentheses denote part to be omitted.

File-112:113
Sub. XMv.

Home Office,
516 N. Lake St.,
Los Angeles, Cal.
Date.....19.....

My Dear Miss _____;

It is with extreme regret and deep displeasure that my (business) social secretary calls to my attention the fact that my little epistle (note) (bill) (order) (report) of....., 19.....has failed to bring forth an answer from your heart (pocket-book) (pen) (father). As I have not been notified by your friends, (the police) (grandpap) (wireless) (newspaper) (reporters) of your death (disability) (removal) this constitutes a serious breach of (etiquette) (good manners) (ethics) (brotherly love) (platonic friendship) just plain love and I (demand) (ask) beg that the matter be investigated at once.

If you are trying to high-hat (freeze) (ignore) (arouse) (anger) (impas-sion) me, you, of course, have picked the wrong (duke) (bimbo) (prince) (bambino) (gent) (egg) (bozo) (baby) (gentleman) (brute) (ham) (man) (fel-low) and better (go soak your feet) (write me a letter) (pay up) or (go to jail) (come up to my office) I'll beat it out of you.

1 (2) (3) (4) (5) 6 (7 8 9 0)%Yours,

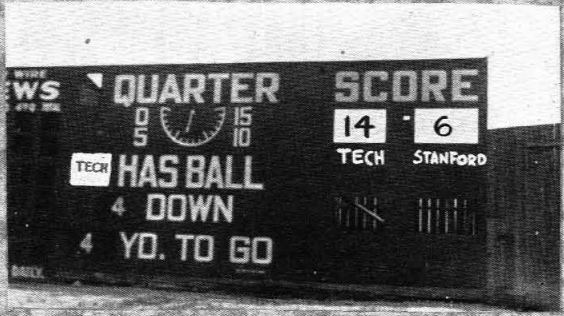
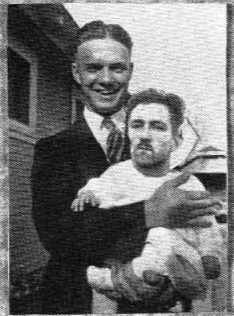
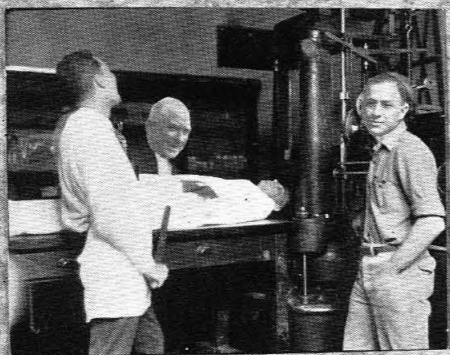
TRACY L. ATHERTON.
(None genuine without this)
(Signature)

A. H. T. A.



EXHIBIT A

Laboratory research in the Transverse Slippage of Lip Stick has recently been added to the curriculum of the California Institute of Technology, one of the leading co-educational institutions of the Pacific Coast.



THINGS WE WOULD LIKE TO SEE



CONFERENCE Colleges presented more than 3000 Letter Men last year with *Wil Wite* Award Sweaters.

A surprising number of smaller Colleges and High Schools also presented these sweaters to their athletes.

Wil Wite

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Athletic Outerwear**

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OLYMPIA KNITTING MILLS, Inc.
Olympia ("End of the Oregon Trail") Washington

Not One Penny Required



Lydia E. herself


Star Salesman

98 OUT OF EVERY 100 WOMEN BENEFITED

Lydia E. Pinkham's Vegetable Compound

LYDIA E. PINKHAM MEDICINE CO. LYNN, MASS.

When you feel "all-in"



IF YOU HAD A FACE LIKE A MONKEY

Put That Vacant Lot To Work

Why Not

TWO PLEASANT WAYS TO RELIEVE A COUGH



Neet

Removes hair easily

Will He Ask for a Second Dance?

TRADE **Dwight O.** ← **SMITH BROTHERS COUGH DROPS** → **MARK Neal D.**

When Your Baby Cries

Immensely Popular At School

Who is to blame

What is a Bohunk?

What's Wrong With This Picture?



YOUTH MUST HAVE ITS FLING.

Do Your Friends "Feel Sorry" for You? CHALLENGE THE WORLD

4 out of 5

Don't statistics prove that four out of every five men divorce and re-marry before they are thirty? Do you want to avoid the third divorce?

Who got the prize of neglect?

She spoiled Nature's markings

Can he be made to "talk"?

She captured his gaze



CARELESSNESS

is the thug who works without a gun. His victims are never frightened. Perhaps he is robbing you of your eye sight. Something you would miss! Science has provided a protection.

SEE A GOOD OCULIST

ARTHUR HEIMANN

PRESCRIPTION OPTICIAN

Pasadena: 24 North Los Robles,
Telephone Colorado 500

Los Angeles: 723 Chapman Bldg.

Andrew W. Stewart

TELEPHONE COLORADO 19

Fred H. Gates

ANDREW W. STEWART & CO.

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Pasadena, California

845 E. Colorado

99 N. Fair Oaks
Telephone Fair Oak 2464

2497 E. Colorado

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TRUCK COVERS, AUTO COVERS, CLOTHING
MEN'S AND BOYS' FURNISHINGS, SHOES AND ETC.

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two hundred forty-nine

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Fair Oaks 4188

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CEMENT CONTRACTORS AND
CONSTRUCTION ENGINEERS

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Alhambra

Telephone Alhambra 624-W

JUST SPRING

*I love the emerald pastures
And I love the budding trees,
I love the flitting bluebirds
And I love the Springtime breeze.
I love the brilliant crocus
And I love the balmy air,
But, Oh, I hate this heavy
Itchy, Winter underwear!*

—Ziffs.

WM. LANE CO.

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Class Sweaters, Golf, Tennis and Letterman's Sweaters

Bathing Suits Made to Order

A Full Line of Athletic Goods

Special Discount to All Students

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for the school year.

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two hundred fifty

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promptness and proper prices.

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and address for \$1.50. Your every printing need taken
care of

Phone Colo. 1192

65 South Fair Oaks
Pasadena

ROSE T. BICKLEY

"The Shop Owned and Run by a Woman"

MATHEMATICAL JOKE

Judge—"And now, my good man, what are you up for?"
American Citizen—"Ah dunno, judge, but ah thinks it's foh trigonometry.
(Laugh, damn you, laugh!)

Although a judge can only say, "You be hanged," while a bishop can say,
"You be damned," yet the fact remains that when the judge says, "You be hanged,"
you are hanged.

Do You Study in Comfort?

If not, see

ALLEN B. COLE

OPTOMETRIST

40 NORTH RAYMOND AVE.

FAIR OAKS 630

two hundred fifty-one



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COLLEGE
WEAR

English Shoes

From Old England

We obtain these shoes for the boys of our western colleges. You must see them at

FRED T. HUGGINS CO.

345 E. COLORADO ST.
PASADENA

Consider the Facts

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THE T. V. ALLEN CO.

Consolidated with the

PACIFIC ENGRAVING CO.

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AND PINS, ATHLETIC MEDALS,
TROPHY CUPS, GRADUATION
ANNOUNCEMENTS AND
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Largest Factory of its Kind in the
Entire West

LOCATION

810-12-14 MAPLE AVENUE
LOS ANGELES, CAL.

two hundred fifty-two

The Tavern

for
Quality

38 E. Colorado Street
Fair Oaks 107

BILL WILLIAMS, Prop.

ALL THAT WAS NECESSARY

Two jumps ahead of the sheriff, a Colored farmhand whose many offenses as a hen house poacher had just come to the attention of the law, dashed into the railroad station.

"Ticket to de end ob de line," he panted.

"The train pulled out a few minutes ago," the agent said.

"Dat's all right," said the fugitive, "jist give me de ticket and point out de track."

—Ziffs.

MAKE IT SNAPPY

The man had caught his foot in a frog in the tracks. The train was approaching at a furious rate, there would be no time to stop it. The man was lost.

The only person near enough to help him was a man running a soft-drink stand near-by. He was afraid to leave his stand for fear someone would plunder it while he was gone, so he stood by helplessly. The man in the tracks covered his face with his hands. "Aid, aid," he screamed, "give me aid."

The vendor galvanized to action. "Orange or lemon," he screeched, "quick, quick before de train gets dere!"

LITTLE GUIDES TO SUCCESS

If you are simply determined to rise in the world, there is a way that never fails:—sit on a tack.

To make a successful appearance in public, pants are indispensable.

Look for the best in everybody. They generally carry it in their hip-pocket.

If at first you don't succeed, try, try again. Raisins are cheap.

Read the newspapers religiously; and then you will be sufficiently ignorant to fill any position in Congress with complete success.

Don't laugh at your own jokes. Respect the aged.

Get back on yourself occasionally. Wash your neck.

Don't speak of your private ailment in public. She might hear you.

Always be bright. In fact, be lit up, as it were.

Be well informed. Any headwaiter, for a small financial consideration, will furnish you a list. —Ziffs.

STAR DRUG CO.

Lake at California

Phone Wakefield 0391

RELIABILITY

QUALITY

SERVICE

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School Supplies

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CROWN CITY TRUNK Co.

104 E. Colorado St.

HARTMANN WARDROBE TRUNKS

LEATHER HAND BAGGAGE

Excited frosh on the rifle range—"My gosh, sergeant, I've just shot Al Newton; my gun slipped."

De Graff—"Well, I can't do anything for you. You'll have to go to the sheriff's office for the bounty."

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Learn to it tonight or but Murray, on the radio 20,000 have a few hours and you see How to Follow the Secret of perspiration, to eliminate 1847 London



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MOTHER—Fletcher's Castoria is especially prepared to relieve Infants in arms and Children all ages of Constipation



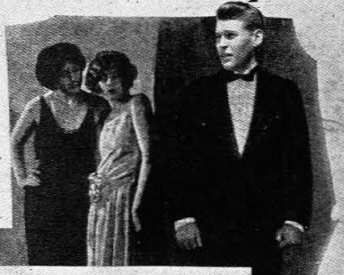
C. H. CHONG, C/o Chartered Bank, Medan, D. E. I. have the special abdominal development, as well as the powerful legs.

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 For Internal Cleanliness



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"How it it, young man, that I saw my daughter sitting on your lap yesterday evening?"

Wild Jim Carter—"Well, I forgot to turn the light out, and also I got there before the other fellows did."

Old-timer—"You young fellows are all too sure of yourselves. When I was your age girls were always a beautiful, fascinating mystery."

Supershieek—"That's so, but in those days they didn't print those intimate lingerie advertisements—and Venice of America didn't exist."



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But oh! How sick it makes me feel
To find it in the butter.

—*Gaboon.*

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Several thousand semesters ago Aesop said: "A case of love at first sight is a dangerous thing; but a case of gin at first sight is infinitely worse."

Dummydarling—"Yes, dear, poppa gave his consent—I told him we'd live with him. Then he wouldn't lose me and he'd have you for a son-in-law to boot!"
Dummydear—"Hell, how come, 'to boot?'"

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"A rose among—"

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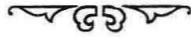
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¶ No matter how much you're able to pay for your clothes, or how many inches you are around the chest, your personality is still deep inside to be expressed or covered as you see fit.

¶ But good, well-tailored clothes, carefully selected, afford a splendid means of impressing your personality on the man who can be your best booster.

¶ And Brenwood Clothes are "Personal" clothes. Wear 'em.

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WE FEEL FAINT

The orchestra was strenuously announcing that every single banana on the market had been sold.

"Do you love dancing?" asked the desert-duster of his newly acquired sheba queen.

"You bet," she breathed, "I can just as well as when I'm sitting down."

BLANK WORSE

First Civil, on interesting subject—"?!*— @/ :***=—"

Second same—"Yuh said it, kid—*z=vvv—3*k)!"

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S. E. CORNER COLORADO AT RAYMOND

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Youngdub—"Sir, I've called to ask permission to marry your daughter."
Fondpoppa—"Have you seen her mother yet?"
Y. D.—"Sure, but if you don't mind, I'd rather have the daughter."

PICTURE FRAMING

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HUNTER & WILLIAMS

Successors to JARVIS, PRINZ & HUNTER

STATIONERS—OFFICE SUPPLIES

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Phone Colorado 695

Pasadena, California

He—"Do you think that modern idealism is tending toward an epistemological monism?"

She (misunderstanding him)—"Not if you consider the inevitable sublimation of the ego as instinctive.

Cal. Pelican.

There's a "RADIOLA" for Every Purse
UNIVERSAL RADIO CO.

38 North Raymond

Colorado 3500

EDISON R. HOGE '18

BEN BENIOFF '22

Variations of an old joke.
"Who was the lady I saw you on the street with last night?"
(a) That was no lady; that was my wife.
(b) That was no street; that was an alley.
(c) That was no lady; that was an alley.
(d) That was no street; that was my wife.
(a) and (b) are fairly brilliant; (d) is quite dumb; but (d) is unmentionable.

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The Big G

MULLEN & BLUETT

Clothiers to Young Men



*Giving the
appearance of
prosperity is the
first step toward
commanding it.
Brains may close
the deal but
appearance gets
the interview!*

LOS ANGELES

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HOLLYWOOD

John R. Lee

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Nold Furniture Company

See us before you buy

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PASADENA, CALIFORNIA

Angry parent, to erring daughter, who refuses to obey—"Am I your father, or am I not?"

Flapper—"I'm sure I don't know, father."

Caffcashier—"Hey, you, this dollar's no good."

Walker—"Ta-ta, we're even, your dinner was the same."

DICKINSON DRUG COMPANY

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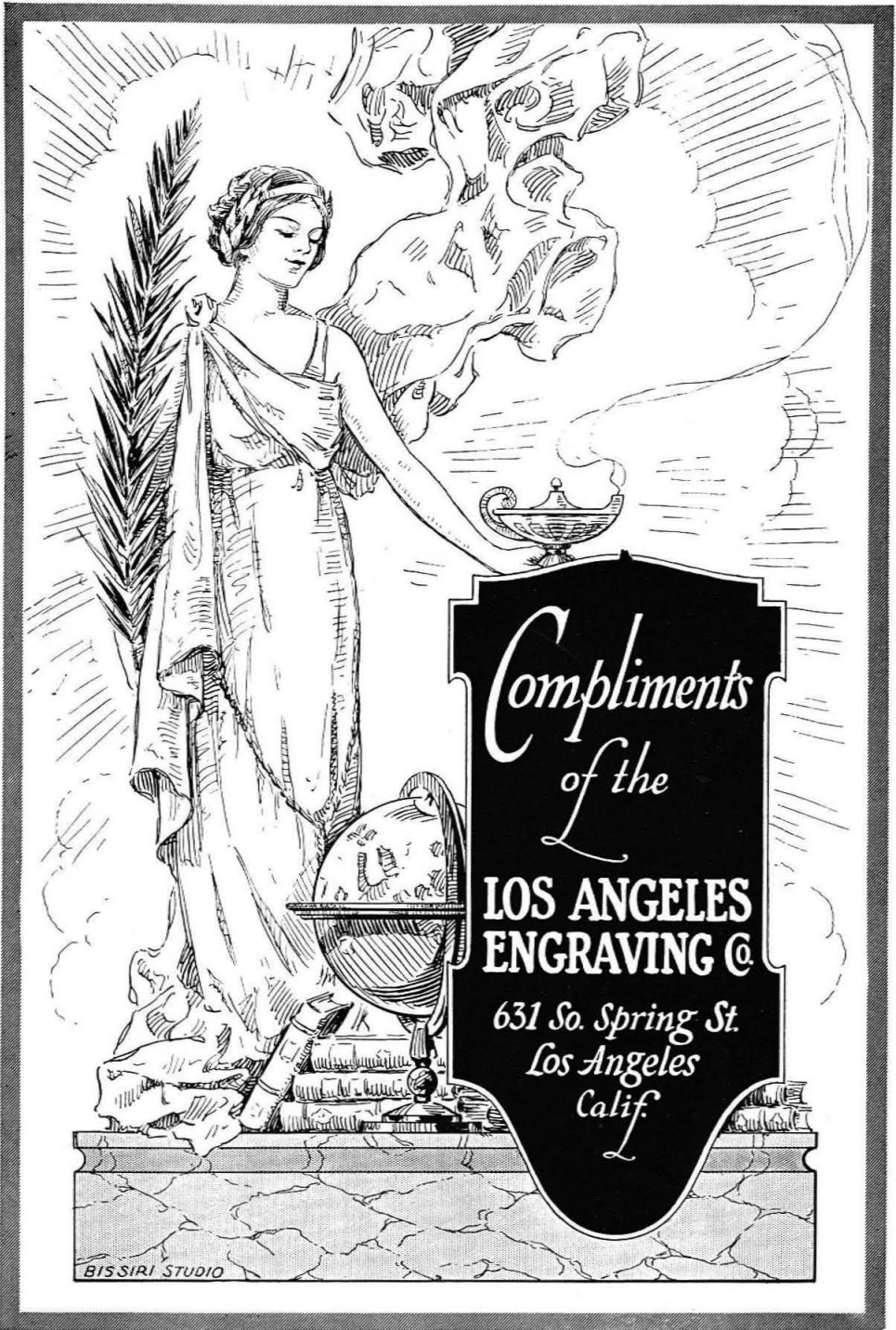
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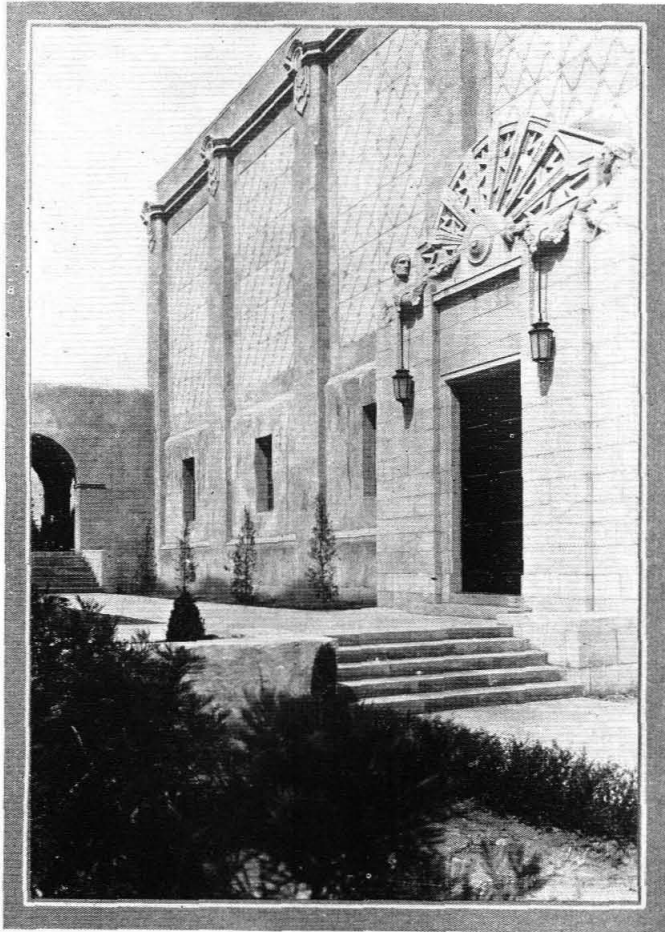


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Lover of the Nile

Under the shredding triscuit tree,
Even as you and I,
With a hunk of bunk
And a chunk of junk
You're a better man than I am—
Mother Machree.

Ach der lieber.

When you think Printing—
Think

Mission Press

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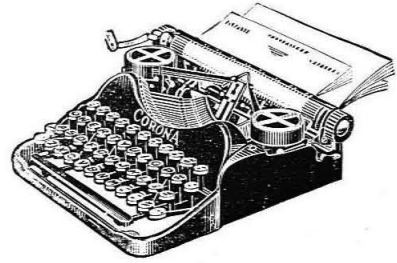
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THE SPOILED CHILD

Sweet little Ann Maria Vasbinder
Died in the basement where no one could find her,
And Oh! how her father and mother did grieve,
For she soon smelled so badly they both had to leave.

—Gargoyle.

The Orchid

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Guaranteed*

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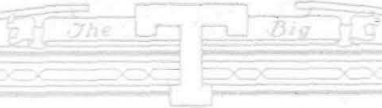


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Golf Clothes
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Phone Colo 220

W E D R E S S T H E M A N

GIRLS!—A Household Hint

Next time your favorite shiek calls and overstays his leave try this as a gentle hint!

- (1) Supply him with a pencil and paper.
- (2) Ask him to draw a row of eleven ciphers.
- (3) Have him draw, to the right of, and tangent to the first, fifth and tenth ciphers, short vertical lines from opposite the centers.
- (4) Have him draw, to the right of, and upward in a similar manner, vertical lines from opposite the centers, for the fourth, seventh and eighth ciphers.

The net result is remarkable. Just try it.

Doc—"Are you taking every precaution to prevent the spread of contagion in your family?"

Rastus—"Shuah thing, Boss, I done bought a sanitary cup an' ah makes 'em all drink from it."

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The Big C



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