

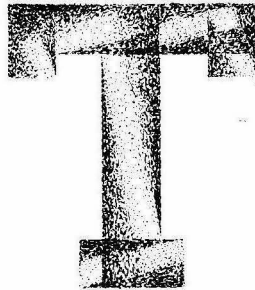


F. T. SWIFT, JR.

1928

THE 1928 BIG T

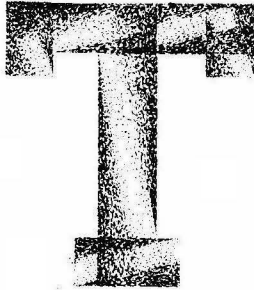
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**THE
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1928**



VOLUME 18

Published by
THE ASSOCIATED STUDENT BODY
of the
CALIFORNIA INSTITUTE OF TECHNOLOGY

DEDICATION

To those far-seeing friends of the California Institute who have made possible through their generosity the realization of the highest ideals of modern science, this book is respectfully dedicated.

FOREWORD

*The Book of Memories . . . reminder
of a year filled with activity, a year of happy
campus life . . . a record of days that
used to be . . . the Annual.*

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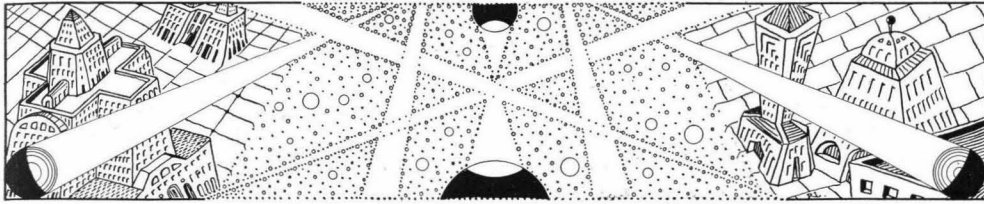
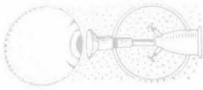
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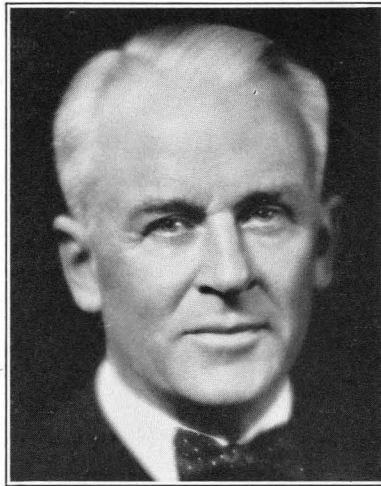
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THE INSTITUTE



ADMINISTRATION



Dr. Robert A. Millikan

“Certainly through the method of Galileo, and the success that its pursuit has already brought, mankind has just recently begun to glimpse limitless possibilities ahead of it in the understanding of nature, and in the turning of her hidden forces and potentialities to the enrichment of life. Nobody knows to what limits we shall be able to go with the aid of this method, but if the past three hundred years is an index of what the next three hundred years may be, then the supreme question for all mankind is how it can best stimulate and accelerate the application of the scientific method to all departments of human life.”

ROBERT A. MILLIKAN.

(From a lecture entitled “The Evolution of Twentieth Century Physics.”)





Van Buskirk

Hinrichs

Macarthur

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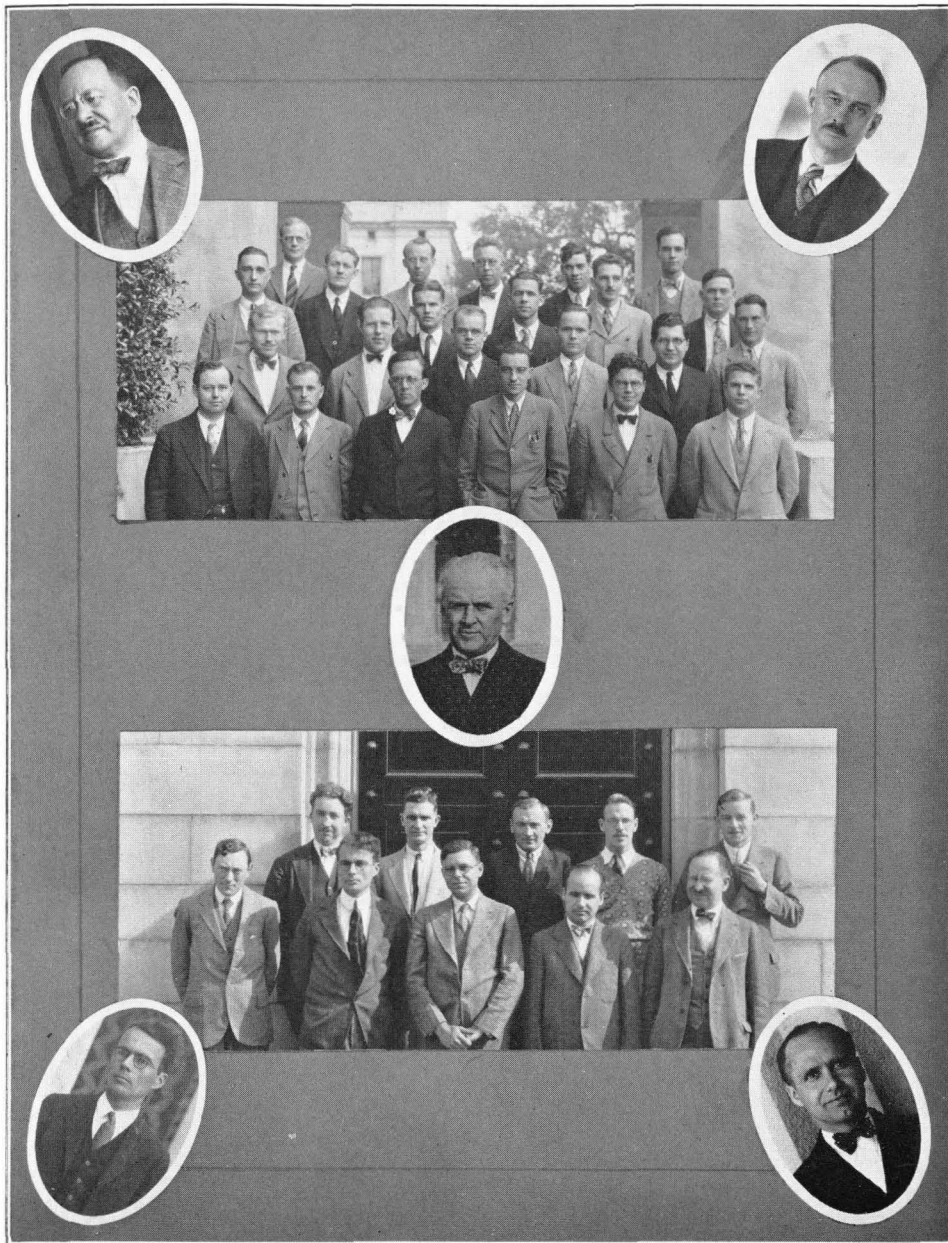
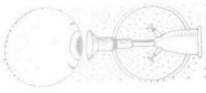
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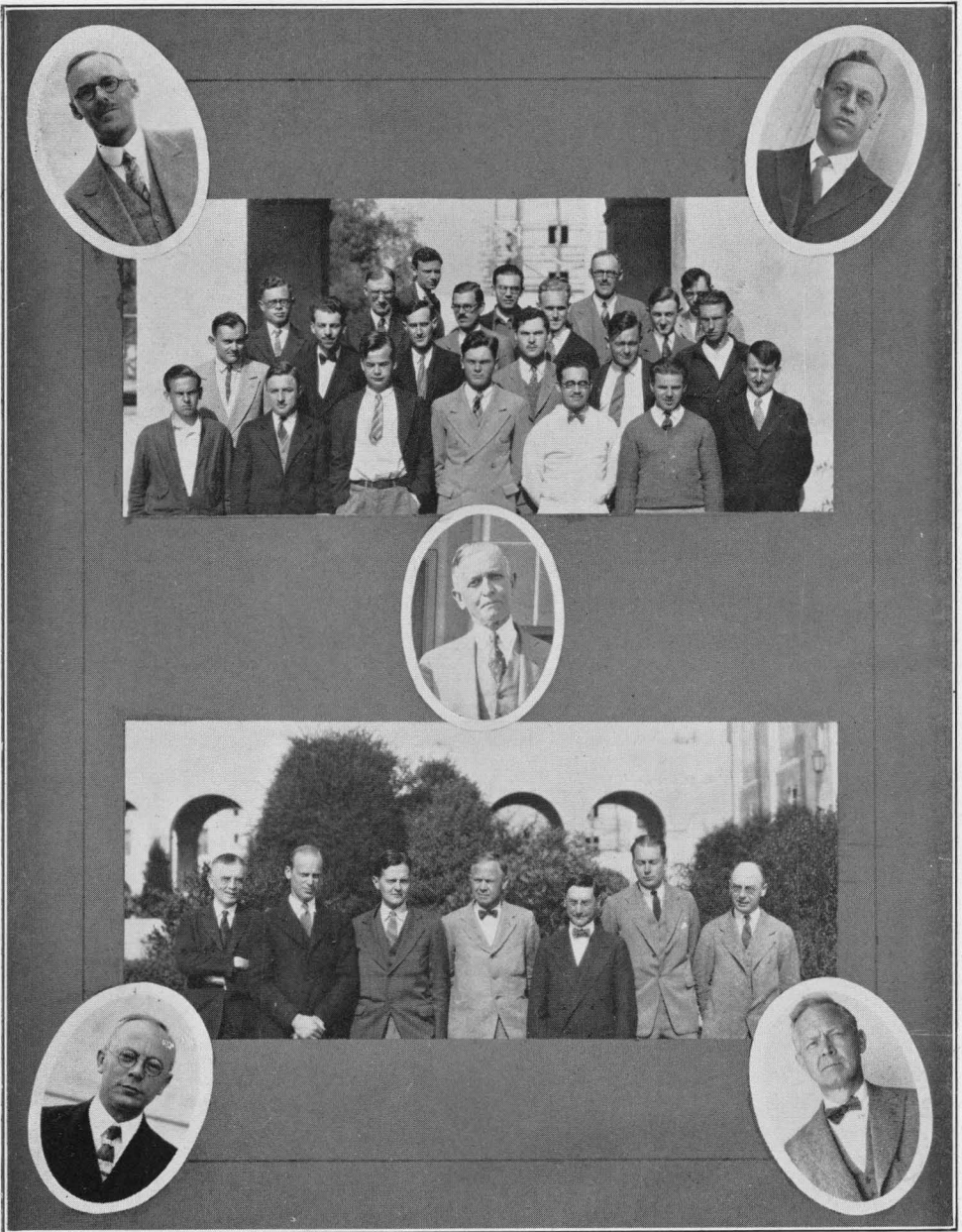
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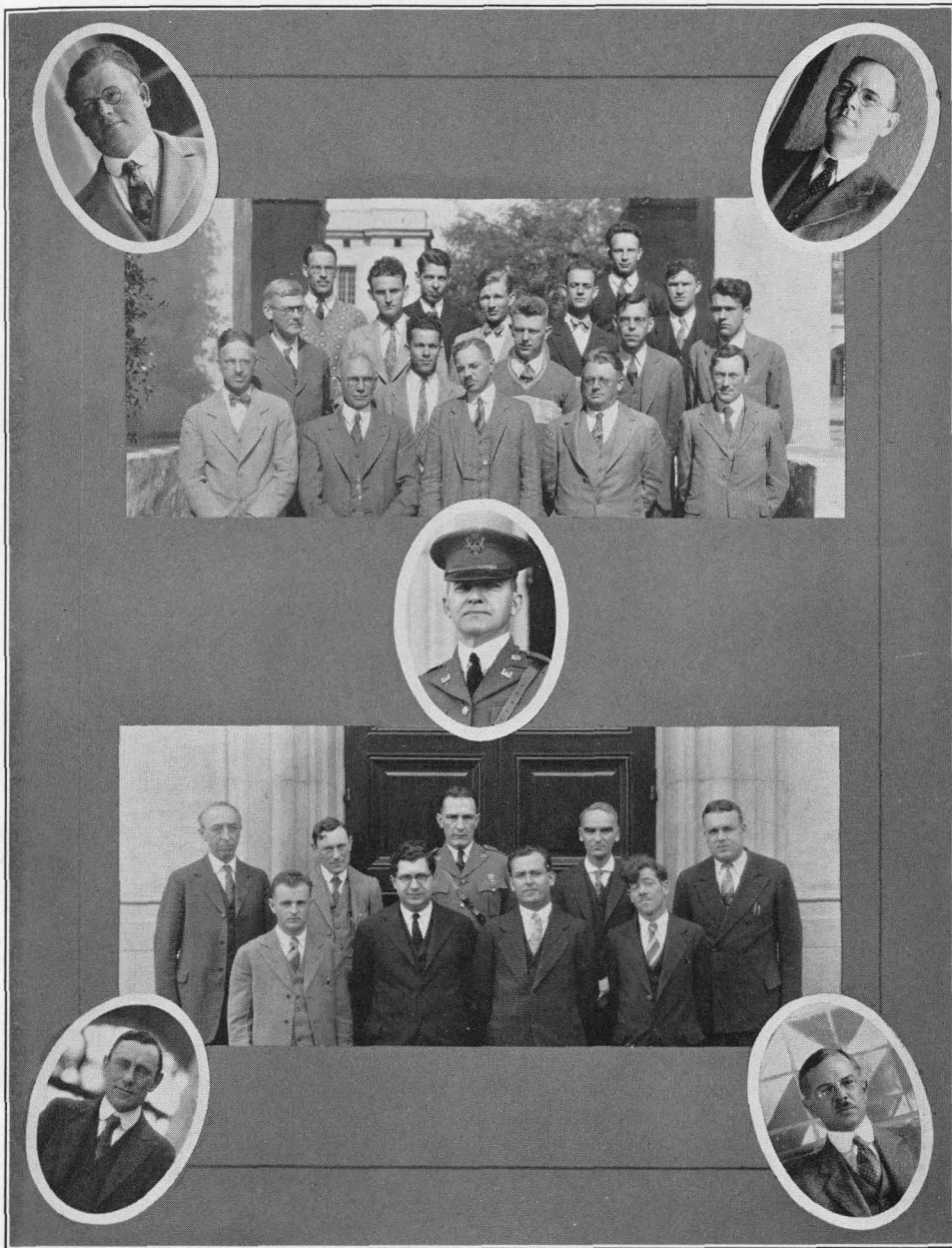
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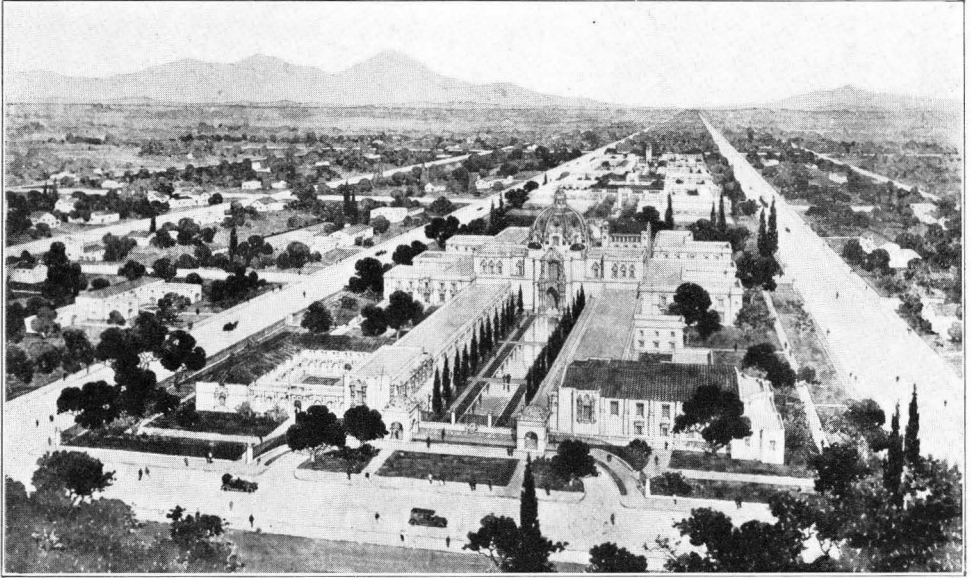
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Architect's Drawing of Completed Campus

HISTORY OF THE INSTITUTE

By Edwin McMillan

Thirty-seven years ago Mr. Amos G. Throop, a Chicago business man, founded Throop University at the corner of Fair Oaks and Kansas Streets, Pasadena. Two years later, in 1893, the technical departments were made an important feature of the university, and the name was changed to Throop Polytechnic Institute. This institution increased rapidly in scope and reputation until in 1902 it had a student body of 620 members, including elementary school students.

Two far-seeing men of the community, Dr. George Ellery Hale and Mr. Arthur H. Fleming, saw in this a fine opportunity for the development of a great scientific and technical college in Southern California. When, in 1908, the plot of ground which forms the present campus was donated, the Board of Trustees, in accordance with this idea, changed the whole organization of the college. They dropped the elementary department, and, when the Institute moved into the first building on the new site, the present Throop Hall, the Academy was discontinued and the Institute was made non-co-educational.

With the accession of Dr. James A. B. Scherer as president in 1910, a great period of growth, which is still continuing with ever increasing rapidity, was entered into. The student body at that time numbered thirty-one, having been greatly cut down by the elimination of departments and the increased requirements. The name was again changed in 1913, the institution then being called the Throop College of Technology. During the war the entire college was engaged in the training of men for national defense.

New buildings soon came. In 1917 the Gates Chemistry Laboratory was completed, and soon afterward the Norman Bridge Laboratory of Physics. Dr. Arthur A. Noyes of the Massachusetts Institute of Technology and Dr. Robert A. Millikan of the University of Chicago became the directors of these

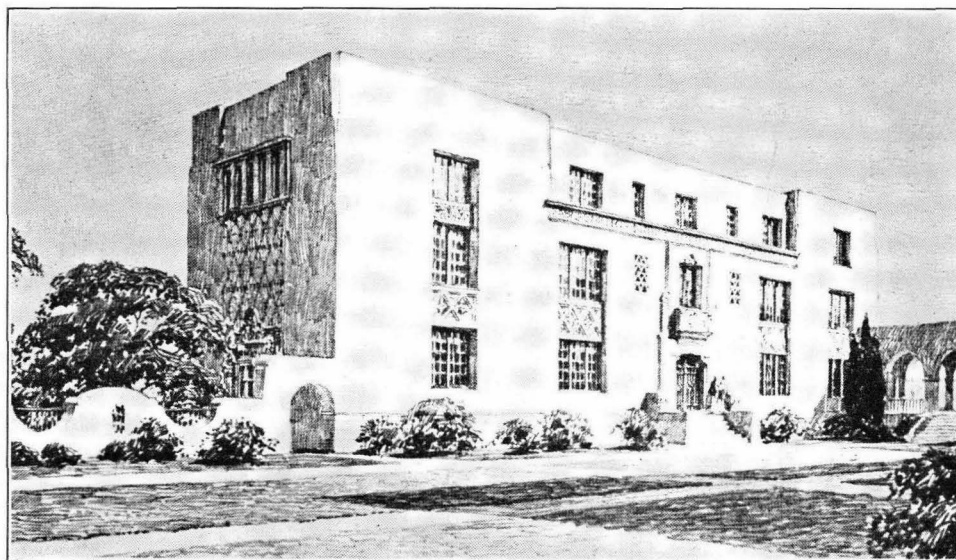
laboratories. Under their supervision a large amount of research work in the fundamentals of science is being carried on, which not only gives the Institute a reputation for creative activity but keeps the faculty up with the times by their contact with the very sources of scientific progress.

In 1920 Dr. Scherer was forced to resign from the presidency on account of illness, and Doctor Millikan became the acting head of the institution, whose name was then changed to what it is today, the California Institute of Technology, on the decision of the Board of Trustees that this name best fits its nature and aims. The Institute had by this time gained national importance and international repute of such extent as to attract noted scholars here from all parts of the world.

This increasing importance has been accompanied by a diversification of interests, shown in the addition of new departments and the extension of the old ones. A department of geology was added in 1925, with Dr. John P. Bulwala as its head; Dr. Thomas H. Morgan is at present engaged in starting a biology department, the building for which is now under construction; and the Guggenheim foundation has endowed a department of aeronautics, for which a building is also going up. The high tension laboratory of the Edison Company has been in use for four years, and has made possible the advanced study of high tension phenomena.

With an eye on the development of the best kind of character in its students, the Institute has not forgotten the humanities, which have always held an important place in its curriculum, and are now attaining their long-sought goal, a building for themselves. This building, which is rapidly nearing completion, is intended to satisfy the demand for a student discussion center.

With these continually increasing physical facilities and steadfast ideals, backed by such men as have been mentioned in this short history, the Institute may confidently look forward to a growing excellence and reputation, and its graduates will always be proud to tell the name of their Alma Mater.



Dabney Hall of the Humanities



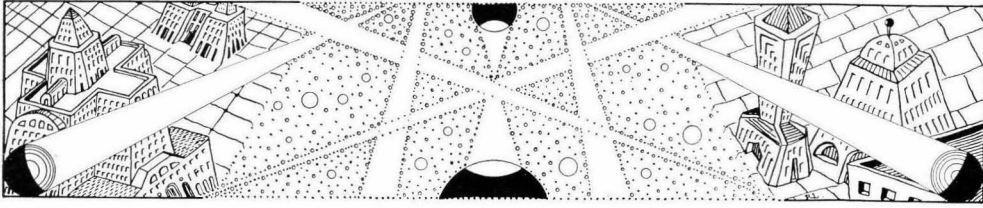
Robert G. Wulff

ALUMNI ASSOCIATION

The California-Tech Alumni Association, although relatively small in membership, has already begun to assume importance in the life of graduates. Membership in the organization is expanding rapidly, as its value is becoming more and more appreciated. Although a large percentage of the men in each graduating class are called to remote points for their work, a gratifying proportion of those who remain in Southern California become active members of the association. The regular banquet meetings furnish a fine opportunity for these men to get together and review campus days. In addition, the value of comparison of opinions made possible by the gathering is making itself felt in increasing measure as the scope of experience widens.

In addition to the regular meetings, the association stages two meetings of especial appeal during the year. The first of these major events takes place on one of the two annual exhibit days, at which time a banquet is held on the campus in honor of alumni, and their wives and sweethearts. The second of these major events is staged at graduation time, the Class Day activities being supplemented by the Alumni dinner meeting. This meeting generally receives the greatest support, being the one following which the election of new officers takes place. At the last session, Robert Wulff was elected Chairman; Charles Wilson, Vice Chairman; Gerald G. Spencer, Secretary-treasurer. In January, Gerald Spencer was called away from Southern California, and C. Leonard Forbes was elected to succeed him. Alumni Association offices are positions of honor, and are much sought after by the members.

The existence of the Alumni Association is probably one of the first facts made known to incoming freshmen. Competition for the Alumni Scholarship for freshmen is always very keen, and it is a matter of satisfaction that the scholarship is judiciously awarded. The spirit of the association is in a measure indicated by the awarding of the scholarship. With the added membership of each year, the association hopes to overcome the financial difficulties that have prevented it from offering more than one scholarship. The potential power of the group is tremendous; its influence is already felt on the campus, and with continued growth, its sphere will continually widen.



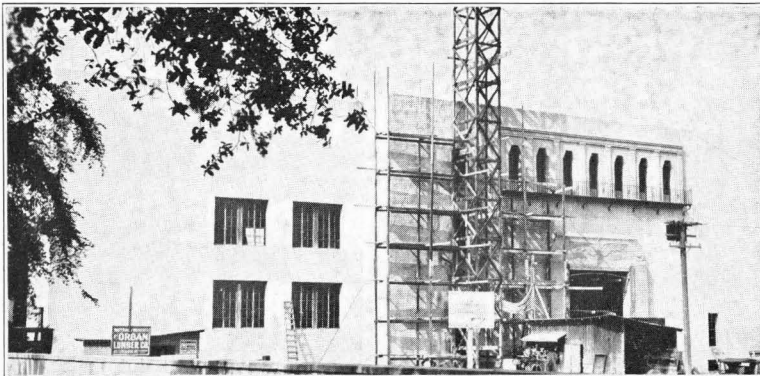
DEPARTMENTS

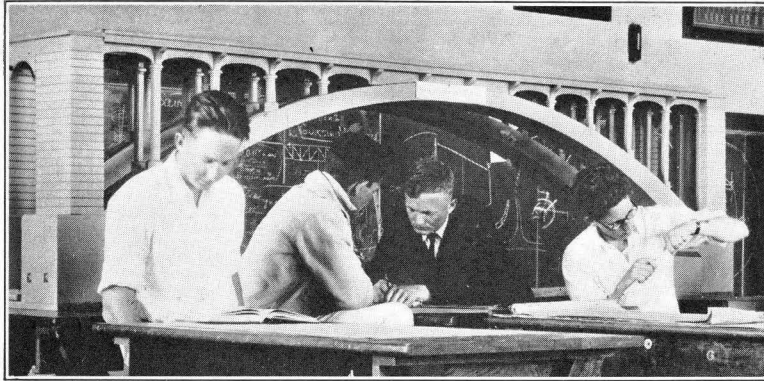
AERONAUTICS

Although the school of aeronautics was established less than two years ago, it now ranks as one of the major departments of the California Institute. In the summer of 1926, the Daniel Guggenheim Fund for the Promotion of Aeronautics, Inc., established at the California Institute the Daniel Guggenheim Graduate School of Aeronautics, setting aside approximately \$200,000 for the construction of a building to be devoted to the aeronautical work of the Institute, and fifteen thousand dollars a year, for a period of years, for the support of this school.

Immediately following the establishment of the new department, the Institute extended its theoretical courses in aerodynamics and hydrodynamics, and initiated a group of practical courses in design and construction of airplanes, which are conducted by the Institute experimental staff, working in co-operation with the Engineering staff of the Douglas Airplane Company of Santa Monica, California.

At the present time, the Aeronautics building is rapidly nearing completion. When equipped, it will provide a ten-foot high-speed wind channel, work shops for model and full size airplane construction, and laboratories for research. It is anticipated that the excellent opportunities thus afforded for all kinds of research work, combined with the opportunities for large scale work in the plants of the Douglas Airplane Company, will build up a considerable school of graduate students.





CIVIL ENGINEERING

Civil Engineering is the oldest of the engineering professions, and yet this profession seems to actually grow younger as its age in point of years increases; new fields are continually opening, attracting the young man who feels the call to lend a hand to the progress of society. Civil Engineering presents the widest possibilities for specialization, since its field is the broadest of all the engineering fields. The simple construction methods of but a few years ago have gradually become totally inadequate; it is the opportunity for meeting and solving the great problems arising from the increasing complexity of structural requirements that arouses the creative urge within the civil engineer and adds the romance to the profession.

The Civil Engineering department at the Institute presents a well balanced course of study which is designed to open before the eyes of the student an insight into the greatest possible number of branches of civil engineering. Undergraduates are given a thorough training in the fundamentals underlying the design and erection of steel, wood, and concrete structures; bridges, dams, railroads, buildings, highways, general surveying and mapping are a few of the projects considered. Irrigation structures and water supply development offer two interesting fields for the application of civil engineering theory.

The introduction of the fifth year course in Civil Engineering is expected to accelerate graduate work along the many interesting lines which are available. Much remains in the various fields of civil work concerning which but little is known of practical value; thus, countless opportunities are presented for research. Fifth year men are asked to submit papers and theses, the preparation for which consists of work similar to that encountered in actual engineering practice.

New equipment is continually being obtained for the department, the latest addition being a very costly and very sensitive deformer for the analysis of stress distribution in trusses. Many models of projects are found in the department's rooms; the newest model is a twelve foot copy of the bridge designed for the City of Pasadena for the Linda Vista Street crossing by Professor Martel.

Field trips are often taken by the civils for the purpose of examining actual structures and their construction. Thus, the theoretical and practical aspects are kept in balance.

GEOLOGY AND BIOLOGY

Though of recent establishment at the California Institute, the Departments of Geology, Paleontology and Biology have assumed major proportions in the work of the Institute. In these departments, although the greatest emphasis is to be placed upon graduate work, provision has been made for considerable undergraduate study.

The undergraduate studies in Geology and Paleontology are given with a three fold purpose. First, they convey a broad concept of the constitution of the earth; second, the elementary geological courses afford the engineer a general knowledge that will be of use to him in engineering work; and third, the department subjects are chosen to provide the preparation required for advanced work and research.

The Division has already outgrown its present quarters, in the west wing of the Norman Bridge Laboratory of Physics. Geological and Paleontological activities are vigorously under way, and it is the hope of the Institute that separate buildings may be provided in the near future for the earth sciences.

At the California Institute, development of biological research by the application of physical and chemical methods will be undertaken. The close association that will exist between the Departments of Physics and Chemistry and the Departments of Biology at the Institute cannot fail to contribute to the success of the new venture. Professor Thomas H. Morgan, now professor of Experimental Zoology at Columbia University, has accepted the position of chairman of the new division and will organize its various branches. The announcement of courses is impossible, pending the selection of the other members of the staff, but it has been decided to offer advanced instruction in general physiology, genetics, and developmental mechanics. To cover a field so broad, a number of investigators of special training are to be selected.

The completion of the new Biology building, located at the northwest corner of the campus, by September, 1928, will make possible the initiation of instruction in these sciences. Only one building is under way at present, but when fully developed, the Division will occupy a group of buildings.



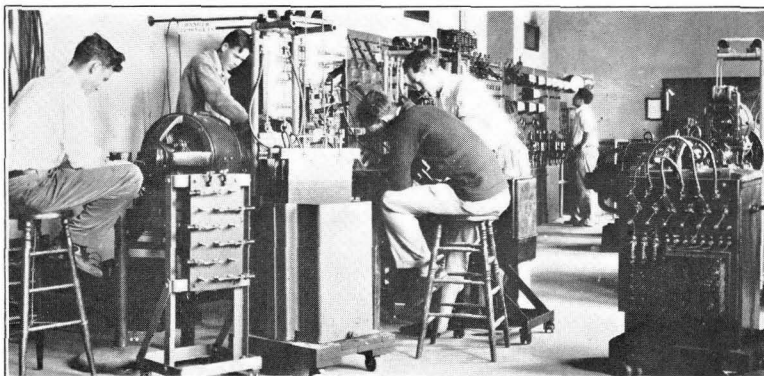
ELECTRICAL ENGINEERING

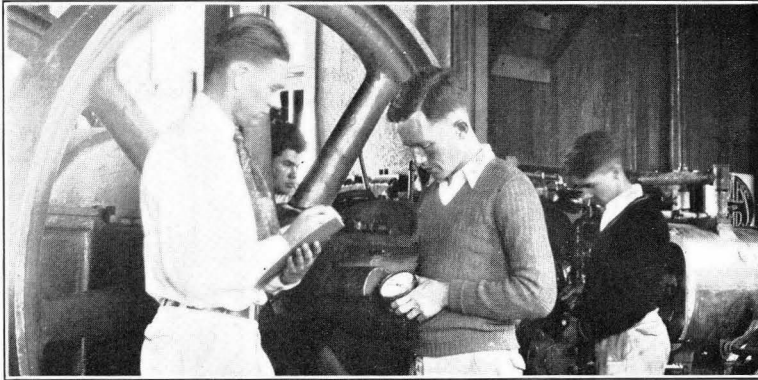
The change from a four to a five year course has made possible definite and valuable changes in the Electrical Engineering course. Keeping pace with the curricular developments, the number of graduate and undergraduate electrical students has increased.

The addition of the fifth year has enabled many of the senior electrical students to engage in creative work under the direction of the department heads. Under the four year system such work was impossible without sacrificing fundamental and necessary courses. To give some idea of the type of work undertaken by the men, a few of the current research problems are here listed. They are: the faradoidal effect on insulators, arc voltages across opening switch contacts, artificial telephone and power transmission line characteristics, the vacuum switch, condensers for use as coupling capacitors and as surge absorbers on transmission lines, characteristics of Neon tubes, fixation of nitrogen, and lightning arresting. The extra year has also permitted the addition of certain advanced work in the other engineering departments. The electrical work thus replaced has been carried forward into the fifth year curriculum.

In this type of work, the student is put on his own initiative, and is afforded an exceptional opportunity to discover just what his inclinations are. It gives him essentially the same type of work he may expect to meet after graduation. The equipment of the department is complete. The Edison High-voltage Laboratory is at the department's disposal, which, with a 125,000 volt laboratory and two electrical engineering laboratories in Throop Hall complete the facilities.

In conjunction with the class room work, the inspection trips taken by the members of the department have proven of much value. The courtesy of the Pasadena Light and Power Bureau in permitting Caltech students to inspect its plant has made possible the acquirement of much practical knowledge, not only in the operation of power plants but in the installation of new equipment. The St. Francis dam collapse presented a unique opportunity for first hand study. The failure was of interest to the geologist, the civil engineer and the electrical engineer as regards the location and design of power supply systems.





MECHANICAL ENGINEERING

The work of the Mechanical Engineering Department was highly successful this year both from the standpoint of practical and theoretical work undertaken.

The department has been enlarged by the addition of certain experimental and operating equipment. An 80 horsepower gas engine, a long time loan of the Standard Gasoline Company, of Huntington Beach, California, will prove of great value to the department. New condensers, and a Peerless turbine pump have added to the experimental facilities.

In addition to regular scheduled work, the senior Mechanical Engineering students have been singularly fortunate in the number of practical projects which engaged their attention during the year. During Thanksgiving vacation, certain of the students assisted Dr. Lacey, of the Chemical Engineering Department, and Mr. Knapp, of the Mechanical Engineering Department, in conducting a forty-eight hour performance test on the cement kilns of the Colton Cement Company, at Colton, California. Again, during the Easter vacation, a group tested the same equipment, conducting two types of eight hour tests, the first with particular reference to capacity, and the second with reference to quality product.

On several occasions the Standard Gasoline Company has offered Tech mechanical groups opportunities to test their equipment. This year, a group conducted an efficiency test on one of the company's compressor units.

In the design work of the department, a project of importance has engaged the attention of the students for some time. The City of Pasadena has interested itself in an investigation of the earthquake resisting properties of masonry walls, and to this end is building a shaking-table for conducting tests. The table itself is under construction by the city, while the design and construction of the actuating machinery is being handled by the department. The layout and specifications are in the charge of seniors, while the detail drawings have been turned over to sophomore draftsmen.

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ECONOMICS

"The Engineer and the Scientist should know something besides the laws of mechanics and the theories of atomic structure. As educated men they should know something of the functioning of the world in which they live, and the study of economics is an essential prelude to such knowledge. It is not that this Institute is attempting to turn out professional economists. Our aim is different. We are trying, in the Economics Department, to provide a broad but sound basis of knowledge of our economic organization with something of the history of its development. The trained and educated man should be the best type of citizen—the man with an intelligent outlook on the problems that affect us all and at least that fundamental beginning of all knowledge, the knowledge of how little he knows, but, in addition, the further knowledge of the place to acquire additional information.

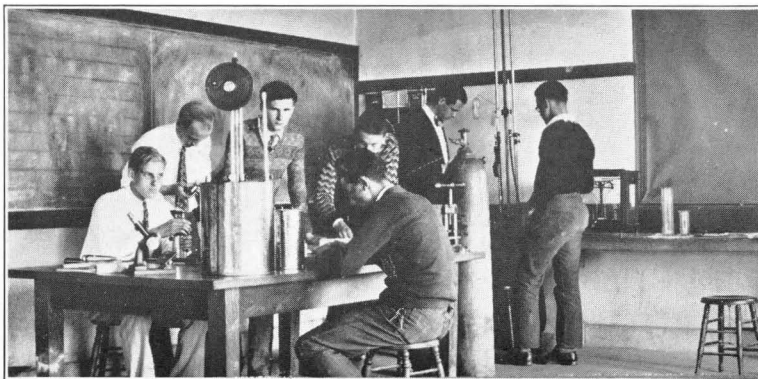
The Department realizes that only a comparatively short time is available for the study of economics amid the multifarious courses that are becoming more and more necessary with the advancement of science, and is endeavoring, therefore, to provide nothing more than the essentials of the basis of economics. In short, we are trying to fulfill the aim of all real educational institutions, namely, to turn out men well grounded in the subjects in which they specialize, but also with a broad and intelligent outlook on life as a whole."

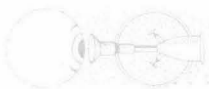
GRAHAM A. LAING.

PHYSICS

The Physics Course at the California Institute is designed to provide intensive training in basic physical principles, and in research along various lines of this particular branch of the pure sciences. It is intended that students shall be fitted by the course for research or teaching in colleges, universities, or high schools, or for developmental work with progressive organizations in the industrial world.

A thorough two years training in the fundamentals of mechanics, molecular physics, elementary thermodynamics, electricity, light, sound and mathematics is followed in the junior and senior years by more advanced work in





thermodynamics, physical optics and other related subjects, all leading to research as an ultimate goal. No great amount of time is available for a course in research work for undergraduates. However, sufficient time is devoted to elementary research problems to insure a familiarity with research methods, and to reveal the possibilities of the field for work following graduation.

The Norman Bridge Laboratory of Physics, which houses the physics Department, has a nation-wide reputation as one of the finest and best equipped institutions in the country. Certainly, some of the most astonishing discoveries in the realm of scientific research and investigation have been made within the walls of this group of buildings.

CHEMISTRY

The Gates Chemical Laboratory, erected in 1917, and extended in 1925, houses one of the most up-to-date groups of general experimental and research laboratories in this country. In the freshman inorganic laboratory are found facilities for carrying on virtually every kind of experiment which may serve to teach first year men the principles of chemical analysis of the inorganic substances. Second or third year men who elect the Chemistry or Chemical Engineering course are initiated into the realm of organic compounds, a well equipped laboratory serving as the center of experimentation. The qualitative analysis of compounds, introduced in the first year, is followed immediately by a more comprehensive study of quantitative analytical methods during the sophomore year.

As in other departments of the Institute relating to the pure sciences, research is emphasized during the latter portion of the college course. Undergraduate research is of necessity less comprehensive than is the graduate work. However, some very important and valuable work is being carried on by undergraduates who show particular aptitude under the direction of the department. The Chemical Engineering laboratories, located in the new Steam Laboratory building, have been the center of very instructive experimentation relating to a special process of manufacturing paper from wood pulp. This particular research problem is being conducted almost solely by undergraduates.



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MILITARY

The primary object of the Department of Military Science and Tactics at the California Institute is to afford students an opportunity to secure commissions in the Engineer Reserve Officers Corps upon graduation. Commissions in that branch of the military service are obtainable in but thirty universities and colleges in the United States.

The military training is obligatory to students during the first two years of their college course, and is voluntary the last two years. Results are generally beneficial, and the fact that a large group of students enter upon the advanced course is evidence of the general realization of these benefits.

At the present time, a considerable number of colleges throughout the country are petitioning the government to grant them Engineer units. That a greater number than thirty units cannot be established is the result of two conditions. First, the government is at present unable to supply a personnel to additional institutions, and second, it is the desire of the Army to graduate from its Engineer courses a number of officers just equal to the number of vacancies occurring each year. There are at the present time twenty-seven Infantry units, three in each of the nine Army Corps Areas, and the men commissioned each year from the thirty units is just sufficient to supply the demand created annually.

Men taking the advanced course are required to spend six weeks in one of the army camps. This year, as last, the camp will be at the Cavalry base at Monterey, California. A good sized unit will be at the camp this year, and of the number there, thirty-six will be from the California Institute. Arrangements have been made for instruction in horsemanship, in addition to the regular work. Engineer Officers are mounted, and the fact that at Monterey animals are available makes the location of the camp at that point doubly desirable to men taking Engineering Corps training. The camp was formerly located at Camp Lewis, Washington, so the Monterey location offers the additional advantage of proximity to Tech.

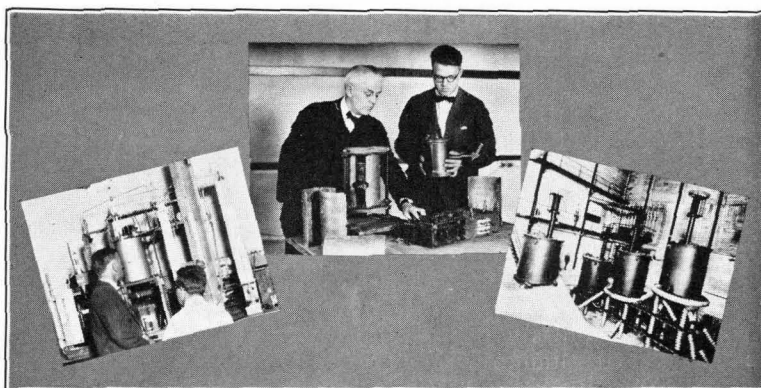
GRADUATE SCHOOL

A department which is rapidly increasing in importance at the Institute is the Graduate School. Men from every corner of the earth are at the present time carrying on advanced studies along virtually all lines of pure and applied science. That these men should be attracted to the California Institute from places so remote is no mean tribute to an institution which is as yet comparatively in its infancy. The enrollment of the Graduate School reached its high water mark this year, with 135 students engaged in advanced work.

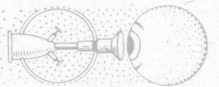
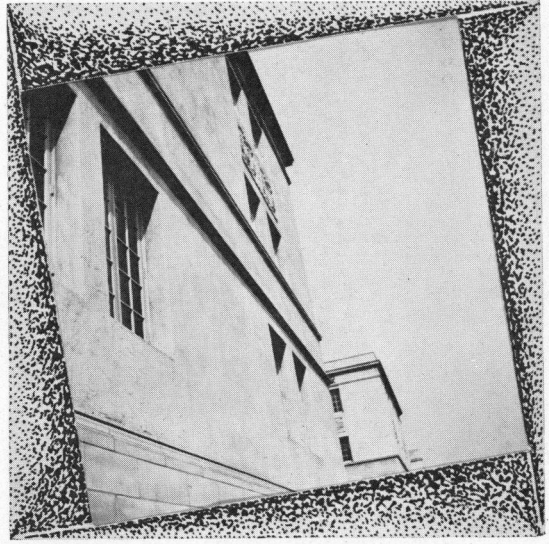
At the present time the graduate students in the applied sciences represent but a small proportion of the total enrollment. However, the recent addition of considerable new equipment and new housing has done much to increase the facilities for graduate work and it is expected that the near future will find great importance attached to engineering research. Wonderful opportunities for interesting research are presented in the many branches of Civil, Electrical, and Mechanical Engineering. Unsolved problems relating to hydraulic structures have interested Civil investigators in the past, as have also many nice problems in high tension transmission and refrigeration and power plant design absorbed the attention of the Electricals and Mechanicals respectively. Study of high voltages is greatly facilitated by the presence on the campus of the Edison high tension laboratory. Research in aeronautical engineering will be greatly accelerated by the addition of the new home for the department which is rapidly nearing completion.

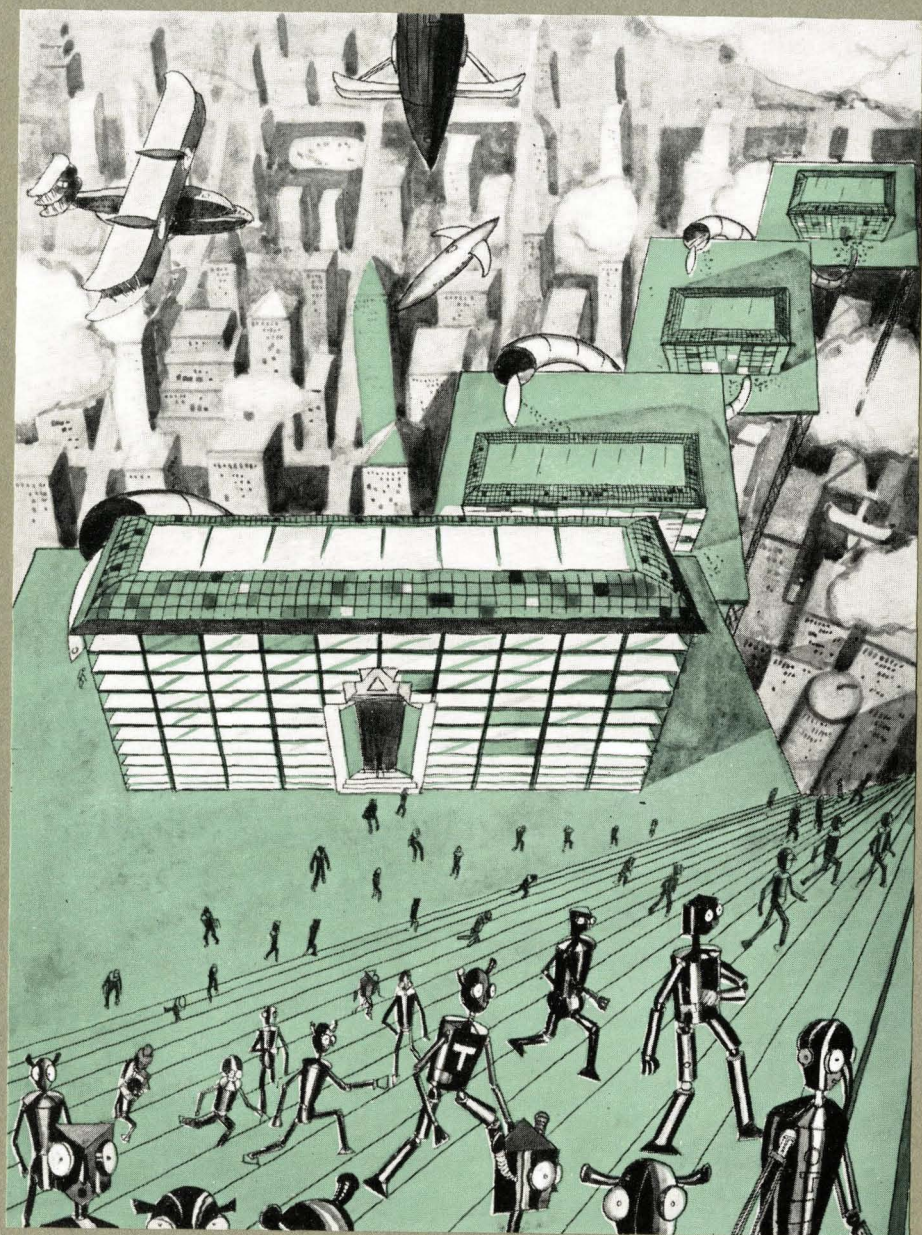
Research of a most interesting nature is being carried on in the laboratories of the Physics and Chemistry departments. Interest in the higher planes of investigation of the pure sciences is heightened by the valuable findings of Doctor Millikan, who is director of the Norman Bridge Laboratory of Physics. Studies are continually being inaugurated which help materially in the establishment of new theories. Special shops provide the research fellows with all necessary materials and assistance for the arrangement of the delicate apparatus which is essential in the work.

Graduate work in geology and the related sciences has received unprecedented impetus during the year, practically the entire group of graduating geologists from the class of 1927 having returned for further investigation. The completion of the Biology building will undoubtedly further accelerate the graduate research of the geology and biology departments.

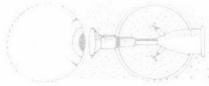


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CLASSES



1928

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SOCIAL

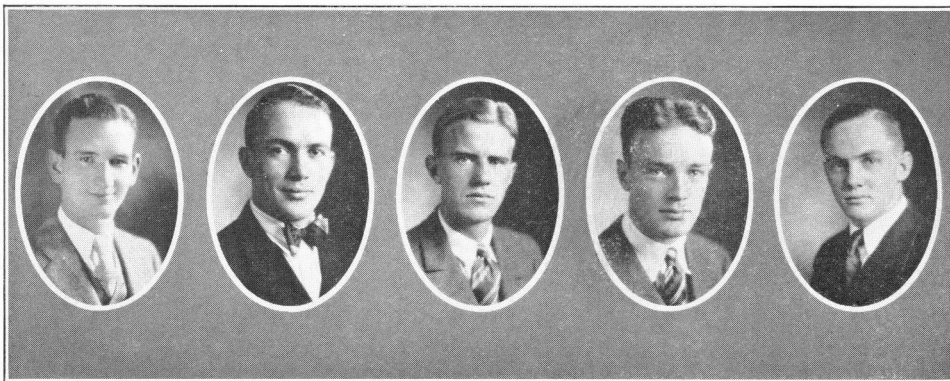
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 Maxwell F. Burke
 Gordon Minkler
 Richard Duval
 Kenneth Crosher

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William Olsen, *Chairman*
 Edward Tuttle
 Charles Lewis

ANNOUNCEMENTS

Gunner Gramatky
 Frank Bell
 Edward Joujon-Roche
 Edward Tuttle



Jacobs

Duval

Jacobson

Brighton

Lombard



HISTORICAL SKETCH

The class of 1928 has the unique distinction of being the first class at Tech to be admitted by means of entrance examinations, and also the first class to become subject to the revised curriculum for the five year courses. During the four years which have followed, more than one fourth of the men who set forth on the perilous path toward the ultimate goal of the Institute diploma have withdrawn to enter other fields. The depleted ranks have been swelled to a slight degree by the return of men who formerly obtained leave of absence, and also by men transferring from other institutions, yet the number of graduates remains far less than the number of men entering in 1924.

In accordance with the precedent established by the faculty several years ago, the leader of the incoming class for the first term of the freshman year was appointed by the Freshman Registration Committee. Kenneth H. Robinson received the appointment in 1924. At the regular freshman election held in the second term, the following officers were chosen:

Kenneth H. Robinson	President
Guy L. Chilberg	Vice-President
William Mohr	Secretary-Treasurer
Robley D. Evans	Board of Control

The second year of the sojourn of the class of '28 brought marked success under the leadership of

Guy L. Chilberg	President
Philip T. Durfee	Vice-President
Elbert Miller	Secretary-Treasurer
William Mohr	Athletic Manager
Robley D. Evans	} Board of Control
Edward Joujon-Roche	

The third lap in the long four year grind found these men at the helm.

Edward Joujon-Roche	President
Ray K. Jacobson	Vice-President
Morton Jacobs	Secretary-Treasurer
Elbert Miller	Athletic Manager
Robley D. Evans	} Board of Control
Douglas Kingman	
Kenneth Robinson	

During the four years which have represented the college career of the class, eleven of its members have been sufficiently active in the affairs of the student body to be awarded Honor Keys. Nineteen men of the class have won distinction in the field of athletics, more than forty-five major and minor sport awards being represented. Six of the sixteen football awards for the current year were won by seniors; five of the nineteen track awards, three baseball awards, and two basketball letters also were earned this year by men of '28.

The fields of scholarship, forensics, and dramatics have also found many able representatives in the graduating class; eight members have already visited Europe as Institute Travel Prize winners; and Kenneth Robinson, of the graduating class, was chosen as one of the two Tech representatives to attend the Pi Kappa Delta convention in April.

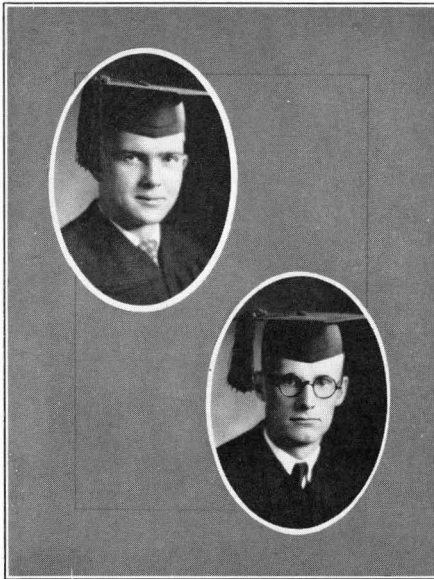
HONOR KEY WINNERS

Maxwell F. Burke
Guy L. Chilberg
Ralph W. Cutler
Robley D. Evans
Richard G. Folsom
Gunner Gramatky
Douglas Kingman
C. Gordon Minkler
William L. Olsen
Kenneth H. Robinson
Edward E. Tuttle

LETTERMEN

Frank T. Bell	Track
Guy L. Chilberg	Football
Robert I. Coulter	Track
Kenneth Crosher	Swimming
Ralph W. Cutler	Basketball
Richard G. Folsom	Football
Moe W. Gewertz	Cross Country, Track
Gunner Gramatky	Track
Ray K. Jacobson	Swimming
Douglas Kingman	Rifle Team
Charles F. Lewis	Football
Albert E. Lombard	Football
Elbert Miller	Cross Country
William Olsen	Baseball
Hampton Smith	Track
Huston Taylor	Baseball
Baker Wingfield	Swimming
Philip T. Durfee	Football, Baseball
Edward Joujon-Roche	Football, Basketball, Track

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RICHARD CARL AUSSIEKER
Chemical Engineering.

Cedar Rapids, Iowa; Born March 6, 1906; Prepared at Cedar Rapids High School; Iowa State College 1924-26; Entered 1926; Chem Club (3, 4).

FRANK WAGNER BELL
Geology.

Pharos, Pi Kappa Sigma.

Santa Ana, Calif.; Born July 9, 1906; Prepared at Santa Ana High School; Entered 1924; Geology Club (3, 4); Track (2, 3, 4); Letterman (3, 4); Announcement Committee (4).

JACK BERMAN
Chemical Engineering.

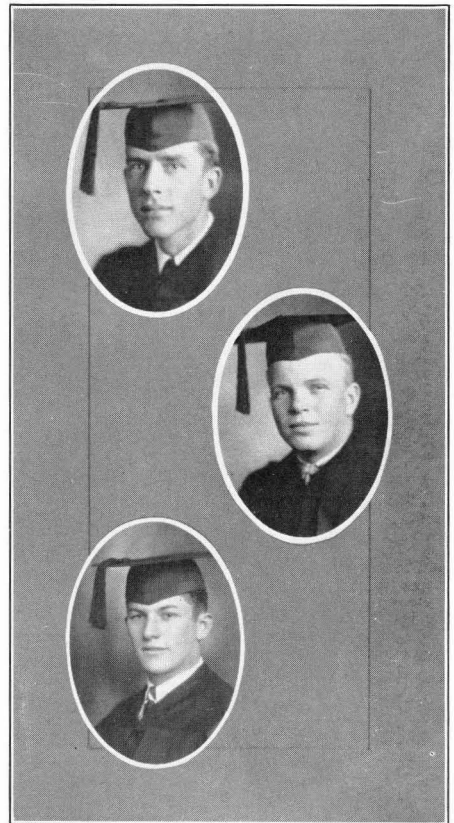
Los Angeles, Calif.; Born October 15, 1906; Prepared at Jefferson High School, Los Angeles; U. S. C. 1924-25; Entered 1925; Boxing Instructor (4); Scrubs (3, 4); Big-T Staff (2); Tech Staff (2); Publicity Staff (2).

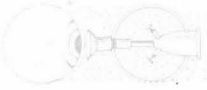
WILLIAM LITTEL BERRY
Civil Engineering.
Pharos, Pi Kappa Delta.

Huntington Beach, Calif.; Born May 31, 1906; Prepared at Huntington Beach High School; Entered 1924; Throopers (3, 4); Football (3, 4); Swimming (3, 4); A. S. C. E. (4); Debate (1, 2).

STRATFORD BRADISH BIDDLE, JR.
Electrical Engineering.

Los Angeles, Calif.; Born June 13, 1906; Prepared at Los Angeles High School; Graduate U. S. Naval Academy; Entered 1927; California Tech Staff.





THOMAS HERBERT BRIGHTON

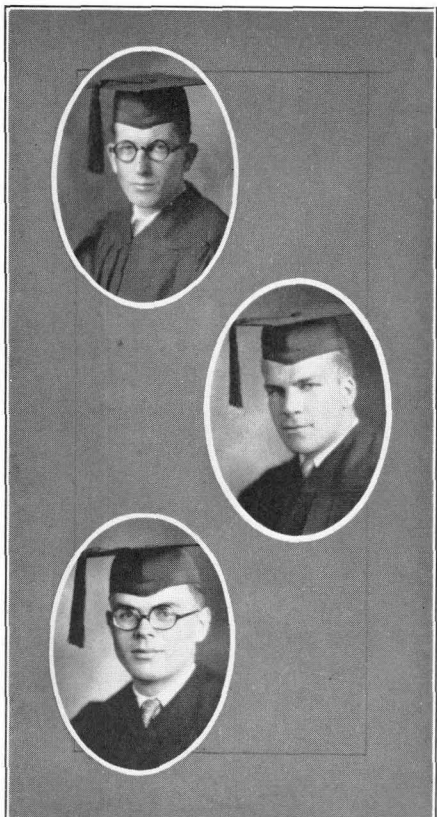
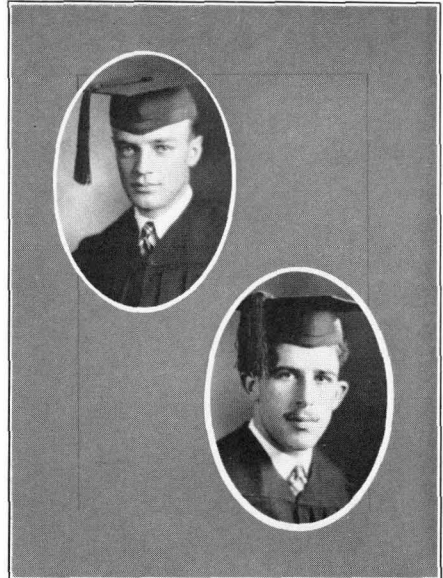
Mechanical Engineering.
Sigma Alpha Pi.

Winnipeg, Manitoba, Canada; Born July 19, 1905; Prepared at Kelvin Technical High School, Winnipeg; Entered 1924; A. S. M. E.; Debating (2); Big-T Staff (2, 3); Class Secretary (4).

ROBERT DUGAN BUCHANAN

Civil Engineering.

Glendale, Calif.; Born October 18, 1904; Prepared at Glendale High School; Entered 1924; A. S. C. E. (3, 4).



MAXWELL F. BURKE

Civil Engineering.

Gnome Club, Pi Kappa Delta, Tau Beta Pi.

Santa Ana, Calif.; Born August 29, 1903; Prepared at Franklin High School; Entered 1923; Press Club (3, 4); Dramatics Club (2, 3, 4); A. S. C. E. (3, 4); Honor Key (2); Basketball (1, 2); Baseball Manager (3, 4); Dramatics Club Plays (2, 3); Greek Plays (2, 3, 4); Debating (1, 2); Board of Control (2); Swimming (1, 2, 3).

GUY LEWIS CHILBERG

Mechanical Engineering.

Gnome Club, Pi Kappa Delta, Pi Kappa Sigma.

Azusa, Calif.; Born July 8, 1906; Prepared at Harvard Military Academy; Entered 1924; Football Letterman (2, 3, 4); Tennis (1); Varsity Club (2, 3, 4); Ex-Committee (2, 3, 4); Board of Control (4); Debate (1); A. S. M. E. (3, 4); Swimming (1); Dorm Club (1); Class Vice-President (1); Class President (2); A. S. B. Vice-President (4); Senior Judge, Court of Traditions (4); Honor Key (4).

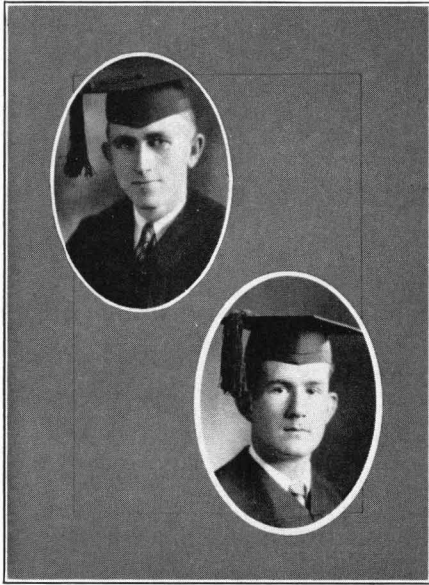
ROBERT ISHAM COULTER

Physics.

Tau Beta Pi.

South Pasadena, Calif.; Born September 7, 1907; Prepared at South Pasadena High School; Entered 1924; Track (1, 2, 3, 4); Letterman (4).





GEORGE RICHARD CRANE
Electrical Engineering.

Gamma Sigma, Tau Beta Pi.

Santa Monica, Calif.; Born May 1, 1906;
Prepared at Santa Monica High School;
U. C. L. A. 1924-26; Entered 1926;
A. I. E. E. (4).

KENNETH ROSS CROSER
Chemical Engineering.

Sigma Alpha Pi, Pi Kappa Sigma.

Los Angeles, Calif.; Born September 8,
1906; Prepared at Pasadena High School;
Entered 1924; Varsity Club (3, 4); Swim-
ming (1, 2, 3); Letterman (2, 3); Foot-
ball (1); Scrubs (2); Tech Staff (1).

ALEXANDER CLARK
Geology.

Kappa Alpha Phi (Whittier College).

Whittier, Calif.; Born December 5, 1902;
Prepared at Coronado High School; Grad-
uate of Whittier College 1926; Entered
1926; Geology Club (3, 4).

RALPH WALDO CUTLER
Civil Engineering.

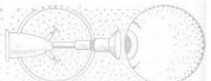
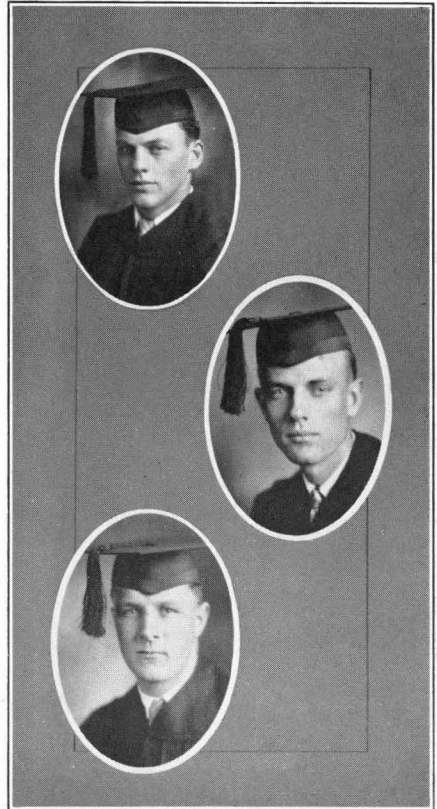
*Pi Alpha Tau, Tau Beta Pi, Omega Xi
Alpha.*

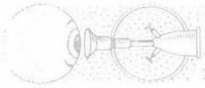
Douglas, Ariz.; Born November 9, 1905;
Prepared at Douglas High School; Entered
1923; Basketball (1, 2, 3, 4); Letterman
(4); Baseball (1); Tech Staff (3); Tech
Business Staff (3, 4); Big-T Staff (3);
Editor-in-Chief (4); Press Club (4); A. S.
C. E. (2, 3, 4); President (4); Varsity
Club (4); Board of Control (4); Honor
Key (4).

PHILIP THADDEUS DURFEE
Mechanical Engineering.

Sigma Alpha Pi, Pi Kappa Sigma.

San Marino, Calif.; Born May 8, 1907;
Prepared at South Pasadena High School;
Entered 1924; Football (1, 2, 3, 4); Let-
termen (3, 4); Varsity Club (3, 4); Class
Vice-President (2); Board of Control (4);
A. S. M. E., (3, 4).



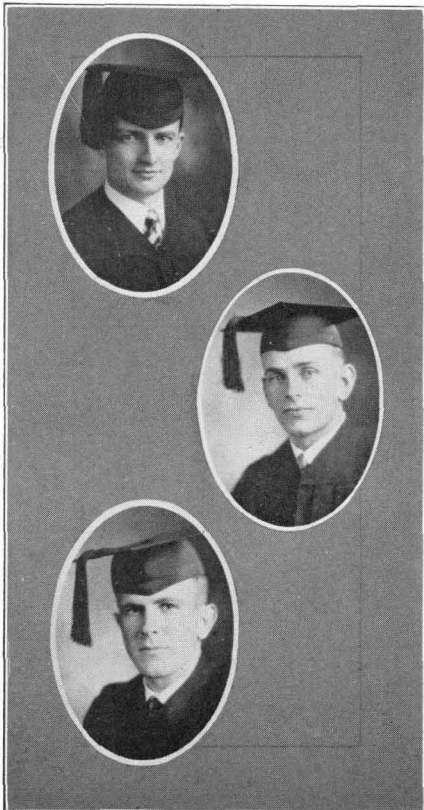
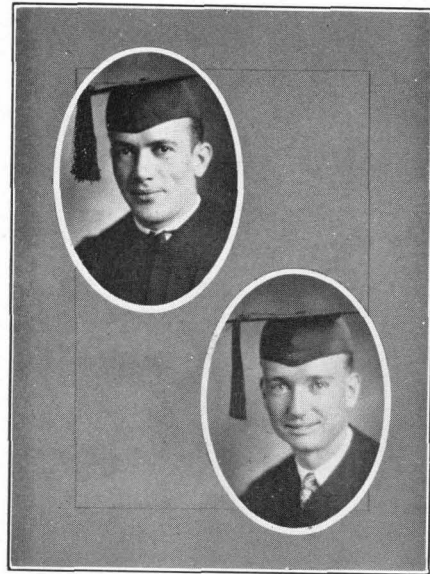


RICHARD HENRI DUVAL

Electrical Engineering.
Pi Alpha Tau, Tau Beta Pi, Pi Kappa Alpha (Beloit College).
Pittsburgh, Penn.; Born February 12, 1906; Prepared at Tracy High School, Tracy, Minnesota; Beloit College 1923-24; U. C. L. A. 1924-25; Entered 1925; Class Treasurer (4); A. I. E. E. (4); Wrestling Assistant (3, 4).

LUTHER JUDD EASTMAN

Electrical Engineering.
Glendale, Calif.; Born October 12, 1906; Prepared at Glendale High School; Entered 1924; A. I. E. E. (3, 4).



ROBLEY DUNGLISON EVANS

Physics.
Gnome Club, Pi Kappa Delta, Tau Beta Pi.
Hollywood, Calif.; Born May 18, 1907; Prepared at Hollywood High School; Entered 1924; Dramatic Club (2, 3, 4); Band (1, 2, 3); Glee Club (1, 2); Basketball (1); Baseball (1); Debate (1, 2, 3, 4); Honor Key (1, 2); Court of Traditions (1); Board of Control (1, 2, 3); Orchestra Director (1, 2); Tech Staff (4); Greek and Dramatic Club plays (2, 3, 4); Freshman Scholarship (1); Blacker Scholarship (2, 3); Junior Travel Prize (3).

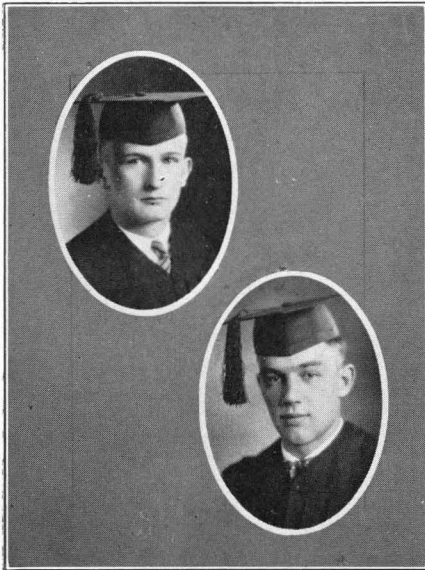
KENNETH MACDONALD FENWICK

Civil Engineering.
Regina, Saskatchewan, Canada; Born November 8, 1903; Prepared at Gardena, Calif., High School; Entered 1922; A. S. C. E. (2, 3, 4); Aero Club (2, 3, 4).

JOSEPH BURWELL FICKLEN III

Chemical Engineering.
Fredericksburg, Virginia; Born April 11, 1902; Prepared at Fredericksburg High School; University of Virginia 1923; Entered January, 1924; Tennis Manager (1); Basketball Manager (1); Tennis Team (4).





MORGAN T. FORNEY

Chemical Engineering.
Leetonia, Ohio; Born May 4, 1905; Prepared at Salem High School, Salem, Ohio; Carnegie Tech 1923-24; Univ. of Southern California 1924-25; Entered 1925.

RICHARD GILMAN FOLSOM

Aeronautics.
Sigma Alpha Pi, Tau Beta Pi, Pi Kappa Sigma.
Los Angeles, Calif.; Born February 3, 1907; Prepared at Los Angeles High; Entered 1924; Aero Club (1, 4); Varsity Club (2, 3, 4); Football (1, 2, 3, 4); Letterman (2, 3, 4); Track (1, 2, 3, 4); Tech Business Staff (1, 2); Business Manager, Tech (3); Athletic Manager A. S. B. (4); Rifle Team (3, 4); Big T (4); Honor Key (3, 4).

MOE WILLIAM GEWERTZ

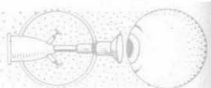
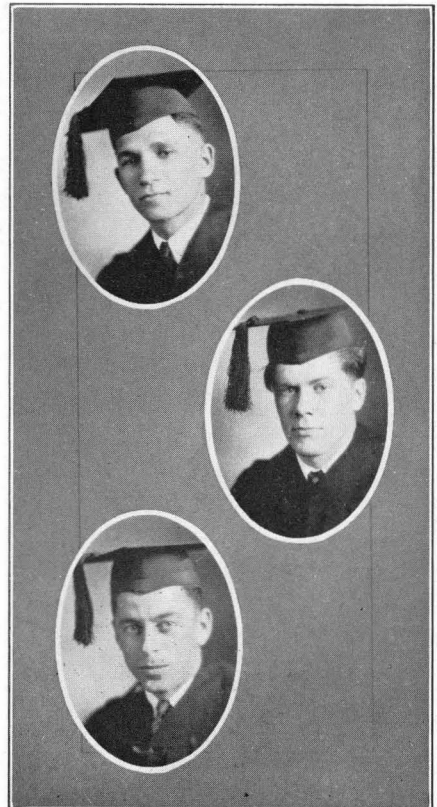
Civil Engineering.
Los Angeles, Calif.; Born May 8, 1905; Prepared at Los Angeles High School; Entered 1924; A. S. C. E. (1, 2, 3, 4); Treasurer (4); Track (1, 2, 3, 4); Letterman (4); Cross Country (1, 2, 3, 4); Minor Sport Letterman (2, 3, 4); Boxing (1); Varsity Club (4).

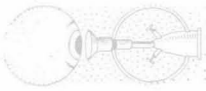
WILLIAM McHENRY GOODALL

Physics.
Beverly Hills, Calif.; Born September 7, 1907; Prepared at Hollywood High School; Entered 1924.

THOMAS C. GRAHAM

Chemical Engineering.
Baxter, Iowa; Born October 19, 1901; Prepared at Whittier Union High School, Whittier, Calif.; Univ. of Southern California 1923-24; Entered 1924.





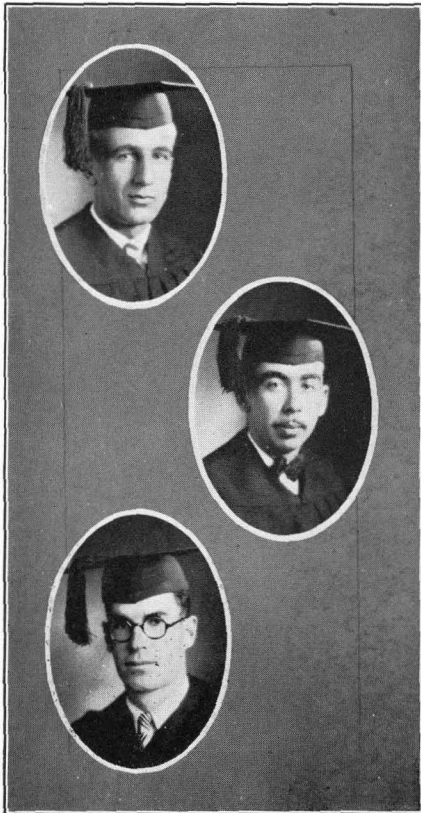
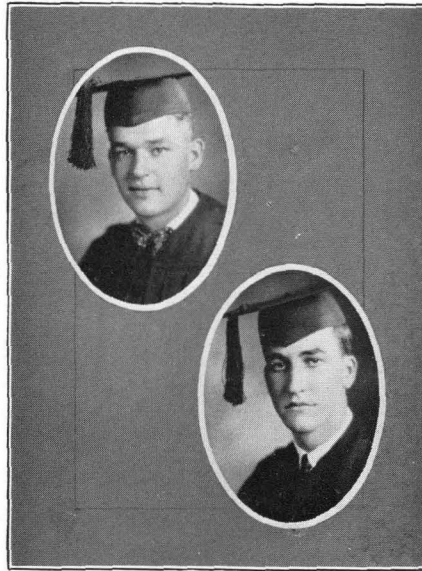
FERDINAND GUNNER GRAMATKY

Civil Engineering.
Gnome Club, Tau Beta Pi, Pi Kappa Sigma.

Wilmar, Calif.; Born March 21, 1906; Prepared at Alhambra High School; Entered 1924; A. S. C. E. (4); Tennis (1); Track (1, 2, 3, 4); Letterman (3, 4); Varsity Club (3, 4); Big T Business Staff (2); Advertising Manager (3); Art Editor (3); California Tech Advertising Manager (3); Business Manager (4); Rifle Team (3); Manager (3); Y. M. C. A. Cabinet (4); Honor Key (3).

GEORGE THOMAS HARNES, JR.

Physics.
Tau Beta Pi, Sigma Xi (Associate).
Galveston, Indiana; Born March 14, 1906; Prepared at Los Angeles Polytechnic High School; Entered 1924; A. I. E. E. (4); Blacker Scholarship (2, 3); Travel Prize (3).



CHARLES ALBERT HISSERICH

Electrical Engineering.
St. Louis, Mo.; Born May 5, 1907; Prepared at Santa Monica High School; Entered 1924; A. I. E. E.; Football (4).

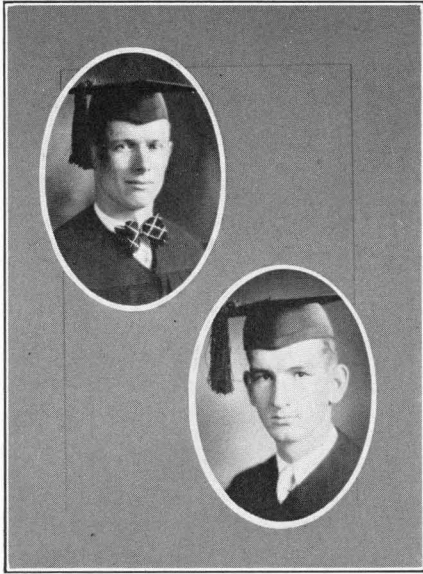
LOZELL CHARLES HOOKWAY

Geology.
Sigma Xi (Associate).
Grass Lake, Mich.; Born February 8, 1905; Prepared at Pasadena High School; Entered 1923; Geology Club (3, 4); Baseball (1).

HUGH ALGER HOSSACK

Electrical Engineering.
Denver, Colorado; Born June 9, 1905; Prepared at Ventura Union High School; Entered 1923; A. I. E. E. (2, 3, 4); Basketball (1).





HAROLD MILTON HUSTON

Mechanical Engineering.

Pi Alpha Tau, Pi Kappa Sigma.

San Fernando, Calif.; Born April 8, 1903; Prepared at San Fernando High School; Entered 1924; Radio Club (1, 2); Basketball Manager (1, 2, 3); Band (1, 2, 3, 4); Manager (3); Librarian (2); Tech Staff (3); Tech Business Staff (3).

WILLIAM MORTON JACOBS

Mechanical Engineering.

Pharos.

Los Angeles, Calif.; Born November 18, 1907; Prepared at Long Beach High School; Entered 1924; Delta Mu Beta (1); A. S. M. E. (2, 3, 4); Geology Club (3); Class Secretary-Treasurer (3); Class Vice-President (4); Throopers (4); Tech Staff (1, 2).

RAY KENNETH JACOBSON

Civil Engineering.

Pharos, Tau Beta Pi.

Gilman, Iowa; Born December 10, 1905; Prepared at Hollywood High School; Entered 1924; Big-T Business Staff (2); Swimming (1, 2, 3, 4); Boxing (1, 2); Class Vice-President (3); Class President (4).

JEAN EDWARD JOUJON-ROCHE

Geology.

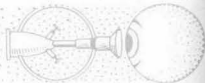
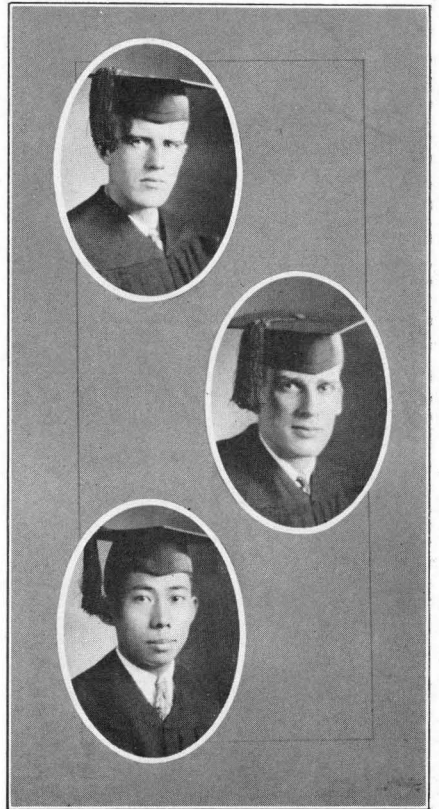
Gnome Club, Pi Kappa Sigma.

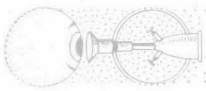
Alhambra, Calif.; Born May 31, 1906; Prepared at Alhambra High School; Entered 1924; Geology Club (3, 4); Varsity Club (2, 3, 4); President (4); Football (1, 2, 3, 4); Letterman (2, 3, 4); Basketball (1, 2, 3, 4); Letterman (2, 3, 4); Baseball (1); Track (3, 4); Letterman (4); Board of Control (2); Class President (3).

GEORGE SHINICHIRO KANEKO

Civil Engineering.

Riverside, Calif.; Born June 16, 1905; Prepared at Riverside Polytechnic High School; Entered 1923; A. I. E. E. (2, 3, 4); A. S. C. E. (4); Cosmopolitan Club (1, 2, 3, 4); Treasurer (2); Vice-President (3); President (4); Dramatic Club (3, 4).



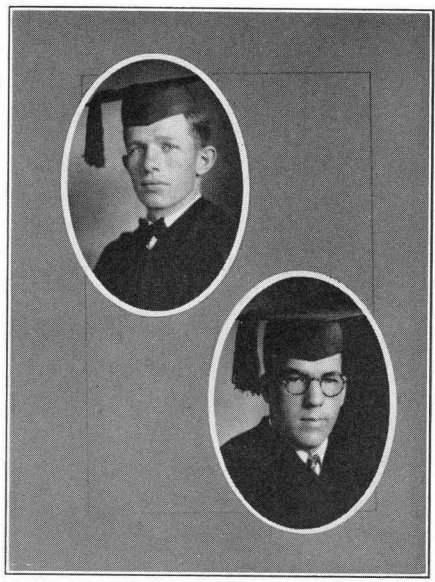


DOUGLAS GEORGE KINGMAN

Mechanical Engineering.
Pharos, Tau Beta Pi, Pi Kappa Sigma.
Alhambra, Calif.; Born September, 1906;
Prepared at Alhambra High School; Entered
1924; A. S. M. E. (3, 4); Secretary-Treasurer
(4); Varsity Club (4); Board of Control
(3, 4); Court of Traditions (3); Tech Staff
(2, 3, 4); Collection Manager (4); Big-T Staff
(2, 3, 4); Rifle Team (1, 2, 3, 4); Captain
(3); Minor Sports Manager (4); Football (1, 2, 3, 4);
Basketball (1, 2); Honor Key (3, 4).

JACKSON G. KUHN

Electrical Engineering.
Santa Ana, Calif.; Born March 31, 1907;
Prepared at Santa Ana High School; Entered
1924; A. I. E. E. (3, 4); Secretary (4);
Football (1, 2, 3).



CHARLES COYLE LASH

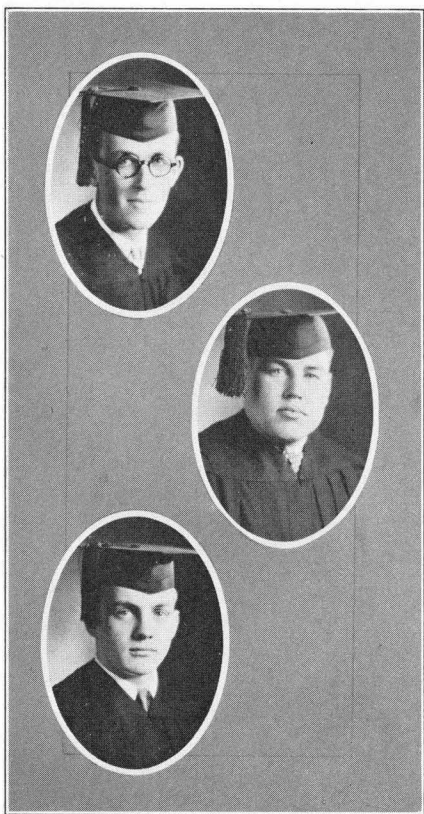
Electrical Engineering.
Tau Beta Pi, Sigma Xi (Associate).
Los Angeles, Calif.; Born March 15,
1906; Prepared at Manual Arts High School;
Entered 1924; Dorm Club (1, 2); Football
(1); Basketball (1); Institute Scholarship
(1); Blacker Scholarship (2, 3);
Junior Travel Prize (3).

CHARLES FINLEY LEWIS

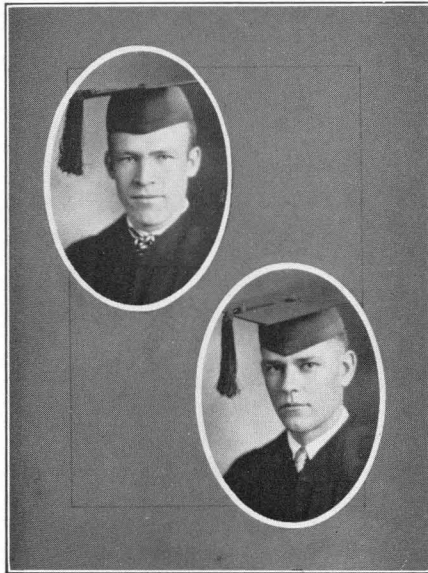
Mechanical Engineering.
Gnome Club, Pi Kappa Sigma.
Alhambra, Calif.; Born November 14,
1905; Prepared at Alhambra High School;
Entered 1924; A. S. M. E. (3, 4); Assistant
Business Manager, Tech (4); Big-T Staff
(4); Football (1, 2, 3, 4); Letterman
(2, 3, 4); Varsity Club (2, 3, 4);
Swimming (1); Wrestling (2, 3, 4);
Senior Track Manager (4); Honor Key (4).

ALBERT E. LOMBARD, JR.

Science and Aeronautics.
Gnome Club, Tau Beta Pi.
Pasadena, Calif.; Born November 25,
1906; Prepared at Pasadena High School;
Entered 1924; Glee Club (2); Aero Club
(4); Football (1, 2, 3, 4); Letterman
(3, 4); Varsity Club (3, 4); Basketball
(1); Baseball (1); Tennis (1, 2); Blacker
Junior Scholarship (3); Junior Travel
Prize (3); Class Athletic Manager (4);
Exhibit Day Chairman (4).



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RUSSELL JAMES LOVE

Engineering.
Pi Alpha Tau, Tau Beta Pi, Omega Xi Alpha.
 Los Angeles, Calif.; Born November 25, 1906; Prepared at Jefferson High School, Los Angeles; Entered 1923; Dramatic Club (3, 4); President (4); Press Club (4); A. I. E. E. (2, 3, 4); Football (2, 3); Big-T Staff (2, 3, 4); Business Manager (4); Swimming (1); Freshman Scholarship (1).

DON EVERETTE MCFADDIN

Mechanical Engineering.
Tau Beta Pi.
 San Dimas, Calif.; Born July 17, 1906; Prepared at Bonita Union High School; Entered 1924; Glee Club (3, 4); A. S. M. E. (4); Scrubs (3); Baseball (1).

ELBERT EDWARD MILLER

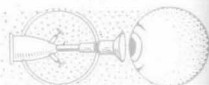
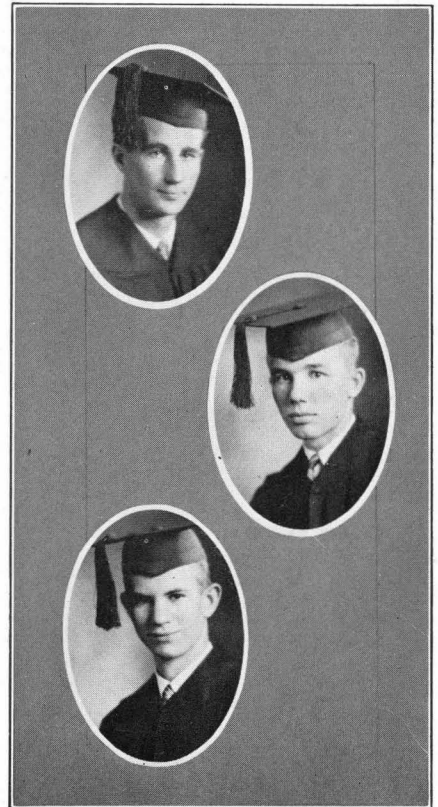
Mechanical Engineering.
Gnome Club.
 Chicago, Illinois; Born March 2, 1907; Prepared at Santa Monica High School; Entered 1924; Press Club (3, 4); Track (1, 2, 3); Throopers (3, 4); Big T Staff (1, 2); Business Manager (3); Honor Key (3); Tech Staff (1, 2); Rifle Team (3); Captain (4); Aero Club (1, 2, 3); A. S. M. E. (3, 4); Cross Country (1, 2, 3); Class Secretary-Treasurer (2); Class Athletic Manager (3).

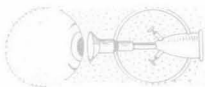
CYRUS GORDON MINKLER

Engineering.
Pi Alpha Tau, Omega Xi Alpha.
 La Grange, Illinois; Born April 11, 1906; Prepared Riverside and Pasadena High Schools; Entered 1923; Press Club (3, 4); Band (1, 2, 3); Tech Staff (2, 3); Big-T Staff (2, 3, 4); Athletic Editor, Big T (3); Associate Editor (4); Advertising Staff Tech (2); Assistant Business Manager (3); A. S. B. Treasurer (4); Ex-Committee (4); Publicity Staff (4); Scrubs (4); Honor Key (4).

EDWIN MATTISON McMILLAN

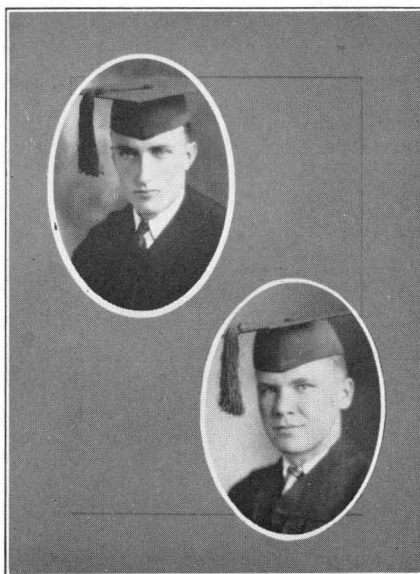
Physics.
Tau Beta Pi, Sigma Xi (Associate), Omega Xi Alpha.
 Pasadena, Calif.; Born September 18, 1907; Prepared at Pasadena High School; Entered 1924; Press Club (3); Chem Club (1, 2, 3, 4); Tech Staff (2, 3, 4); Big-T Staff (4).





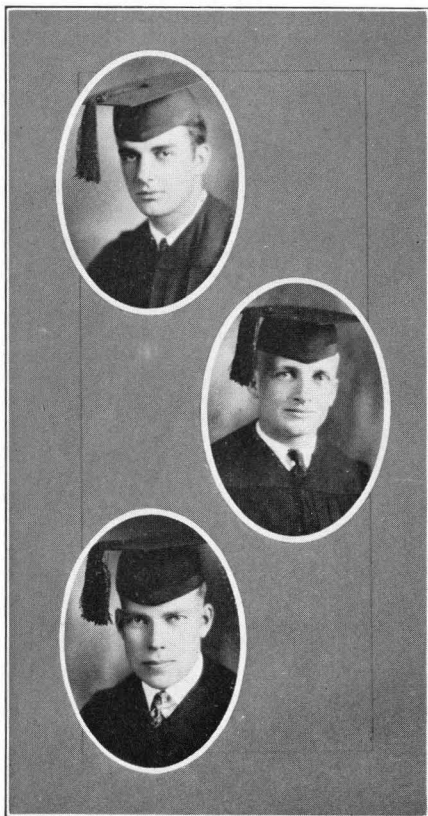
HENRY EDWARD NASH

Physics.
Tau Beta Pi, Sigma Xi (Associate).
Los Angeles, Calif.; Born January 21, 1906; Prepared at Glendale Union High School; Entered 1924.



ALFRED CLIFFORD NESTLE

Chemical Engineering.
Long Beach, Calif.; Born March 19, 1907; Prepared at Long Beach Polytechnic High School; Entered 1924; Chem Club (3, 4); Chorus (1, 2); Basketball Manager (2, 3, 4); Big-T Staff (3); Exhibit Day Committee (4).



DONALD SPRAGUE NICHOLS

Civil Engineering.
Aurora, Mo.; Born August 16, 1906; Prepared at Franklin High School, Los Angeles; Entered 1924; A. S. C. E. (4); Football (1); Track Manager (1).

FRANCIS N. NOEL

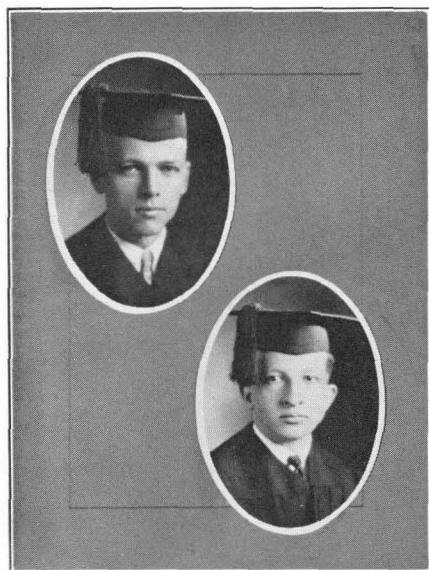
Civil Engineering.
Los Angeles, Calif.; Born October 7, 1904; Prepared at Los Angeles Polytechnic High School; Entered 1924; A. S. C. E. (4); Track (2, 3, 4); Baseball (1).

WILLIAM LEWIS OLSEN

Civil Engineering.
Sigma Alpha Pi, Pi Kappa Sigma.
Sierra Madre, Calif.; Born June 2, 1903; Prepared at Pasadena High School; Entered 1923; A. S. C. E. (2, 3, 4); Glee Club (1, 2, 3, 4); Manager (3); President (4); Radio Club (2, 3); Baseball (1, 2, 3, 4, 5); Captain (1); Varsity Letterman (4, 5); Track (1, 2, 3); Varsity Club (4, 5); Band (1, 2, 3, 4); Drum Major (3, 4); Exhibit Day Committee (3, 4); Radio Contest Announcer (4, 5); Chorus (2, 3); President (3); Chairman Senior Class Day Committee (5); Honor Key (5); Representative-at-large (5).



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BENNETT PREBLE

Chemical Engineering.
Pasadena, Calif.; Born December 10, 1903; Prepared at Pasadena High School; Entered 1924; A. C. S. (4); Chem Club (3, 4); Vice-President (4); Big-T Staff (3, 4); Dramatic Club (3, 4).

EVAN ELLIS PUGH

Electrical Engineering.
Lake Crystal, Minn.; Born November 23, 1904; Prepared at Pasadena High School; Entered 1924; A. I. E. E. (3, 4).

WALTER HAMMOND RIGHTER

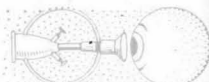
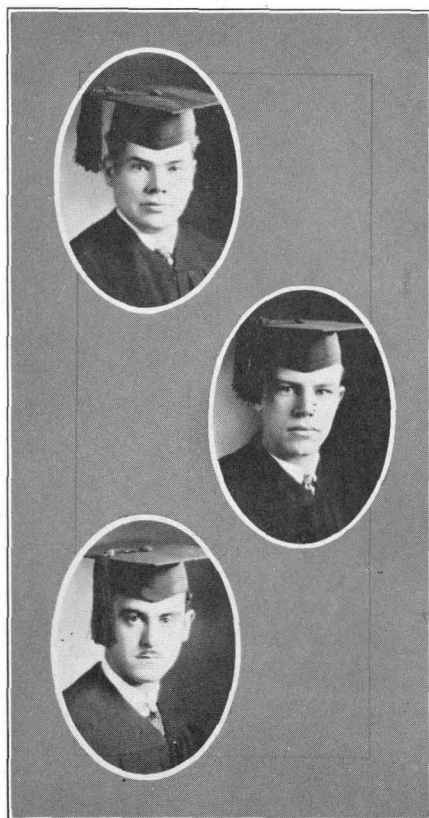
Mechanical Engineering.
Orange, Calif.; Born April 14, 1905; Prepared at Orange Union High School; Entered 1924; A. I. E. E. (3); A. S. M. E. (4).

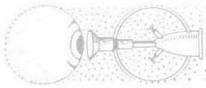
KENNETH HALL ROBINSON

Civil Engineering.
Gnome Club, Pi Kappa Delta.
Pasadena, Calif.; Born August 14, 1906; Prepared at Pasadena High School; Entered 1924; Dramatic Club (2, 3, 4); A. S. C. E. (3, 4); Class President (1); Representative-at-Large (2); Board of Control (3, 4); Track Manager (2, 3); Y. M. C. A. President (4); Glee Club (1, 2); Debate (1, 2, 3, 4); A. S. B. Vice-President (1st term 4); A. S. B. President (two terms, 4); Pi Kappa Delta Representative 1928 Convention (4); Honor Key (2, 4).

ELLWOOD HART ROSS

Electrical Engineering.
Pi Kappa Sigma.
Gardena, Calif.; Born April 26, 1906; Prepared at Gardena High School; Entered 1924; A. I. E. E. (3, 4); Dorm Club (1, 2, 3); Big-T Staff (2, 3); Rifle Team (4).



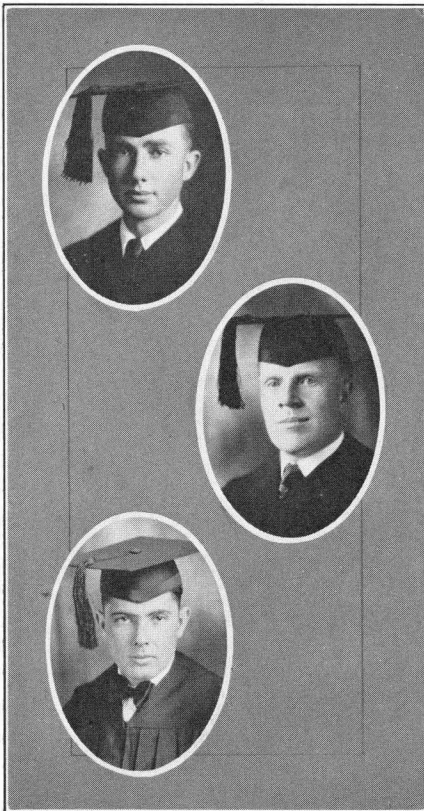
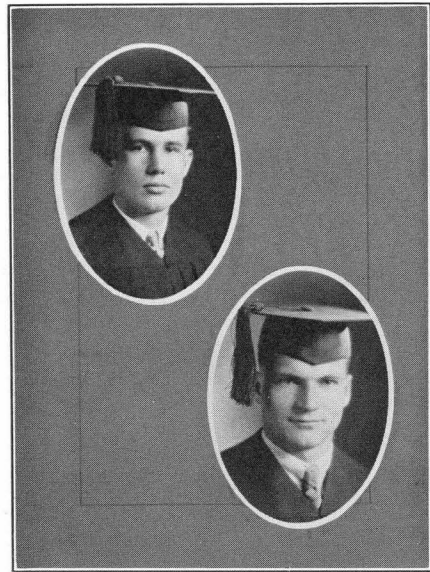


HAMPTON SMITH

Geology.
Gnome Club, Tau Beta Pi.
Monrovia, Calif.; Born July 10, 1907;
Prepared at Monrovia High School; Entered
1924; Geology Club (3, 4); Cross Coun-
try (2, 3, 4); Track (2, 3, 4); Letterman
(4).

JOHN EGON SKAFTE

Civil Engineering.
Nakskor, Denmark; Born March 14,
1905; Prepared at Nakskav Realskole, Den-
mark, and Polytechnic High School, L. A.;
U. C. L. A. 1924-26; Entered 1926; A. S.
C. E. (3, 4); Acrobatics (3).



CARMUN CUTHBERT SHAFFER

Civil Engineering.
Pi Kappa Sigma.
Pasadena, California; Born July 8, 1908;
Prepared at Pasadena High School; Entered
1924; A. S. C. E. (4); Scrubs (3, 4).

NICOLAI KIPRIANOFF SENATOROFF

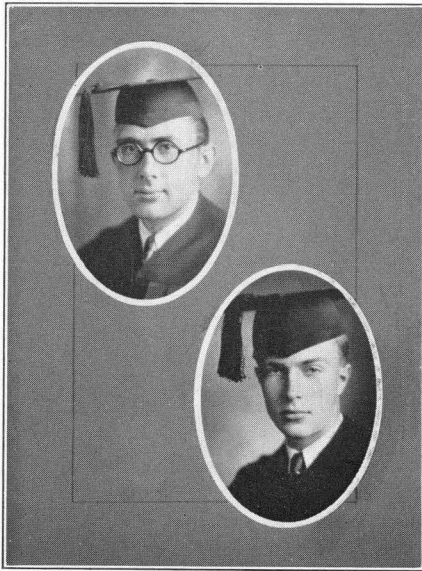
Chemical Engineering.
Tau Beta Pi.
Kazan, Russia; Born December 17, 1895;
Prepared at Polytechnic Institute of Lenin-
grad; Entered 1924; Glee Club (4).

BERTIE HALSEY SHEPLEY, Jr.

Chemistry.
Colton, Calif.; Born February 13, 1906;
Prepared at San Diego High School; En-
tered 1924; Swimming (1, 2, 3).



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GEORGE AUSTIN SCHROTER

Geology.
Denver, Colorado; Born October 5, 1905; Prepared at Los Angeles Polytechnic High School; Entered 1924; Band (1, 2, 3); Baseball (1); Tech Staff (1, 2); Swimming (1); Rifle Team (1); Track (1, 2); Geology Club (3, 4).

ERNEST EDWIN SECHLER

Aeronautics.
Pharos, Omega Xi Alpha.
Pueblo, Colorado; Born November 17, 1905; Prepared at Pasadena High School; Entered 1924; Press Club (3, 4); Vice-President (4); A. S. M. E. (3, 4); Vice-President (4); Tech Staff (2, 3); News Editor, Tech (4).

KENNETH ALFRED SOLOMON

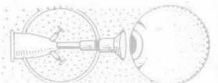
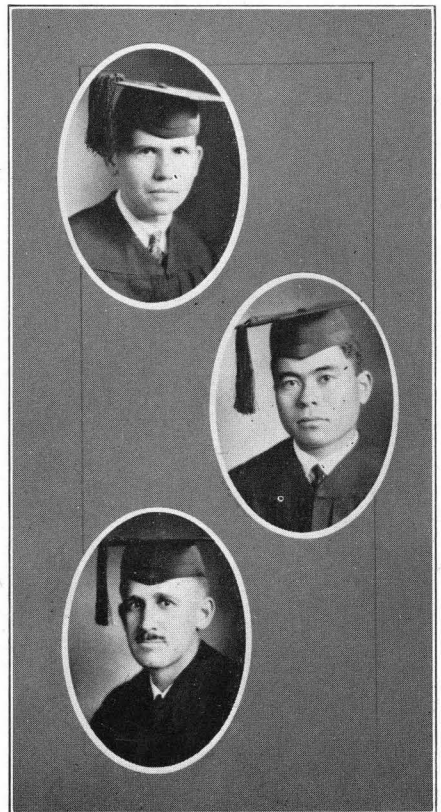
Physics.
Sigma Xi (Associate).
Springfield, Illinois; Born August 20, 1906; Prepared at Glendale Union High School; Entered 1924; Junior Travel Prize (3).

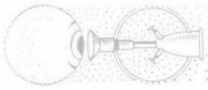
ARTHUR TOMIZO SUZUKI

Civil Engineering.
Taira, Japan; Born November 1, 1903; Prepared at Iwaki High School, Taira, and Manual Arts High School, Los Angeles; Entered 1924; Cosmopolitan Club (1, 2, 3, 4); A. S. C. E. (4).

DONALD TOLMAN TARR

Electrical Engineering.
Kingman, Arizona; Born November 20, 1898; Prepared at Pasadena High School; Entered 1923; A. I. E. E. (4).



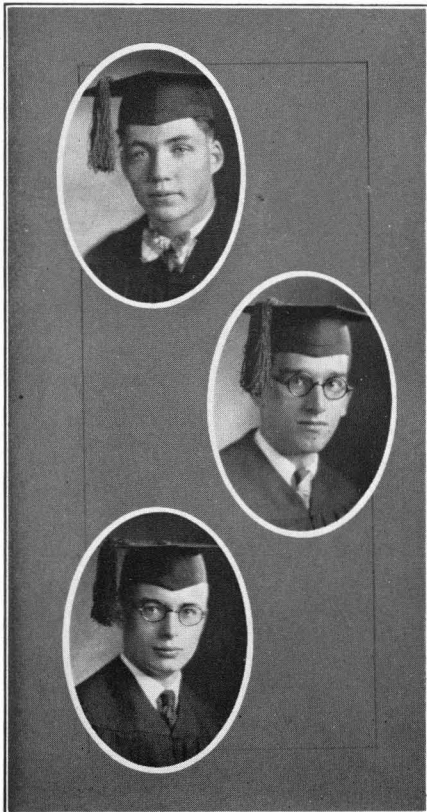
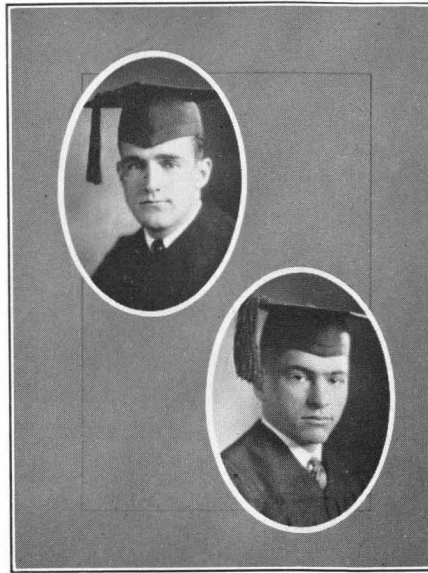


HUSTON WARFIELD TAYLOR

Mechanical Engineering
Sigma Alpha Pi.
Waterville, N. Y.; Born April 28, 1905;
Prepared at Detroit Northwestern High
School; Centre College, Ky., 1923-24;
Entered 1924; A. S. M. E. (3, 4); Fresh-
man Baseball Coach (1); Baseball (2, 3,
4); Letterman (3, 4); Varsity Club
(3, 4).

EDWIN WILSON TEMPLIN

Electrical Engineering.
Tau Beta Pi.
Los Angeles, California; Born January
23, 1906; Prepared at Franklin High
School; Entered 1924; Tech Staff (1, 2);
Big-T Staff (2, 3); A. I. E. E. (4);
Chorus (1, 2).



JOHN WILLIAM THATCHER

Electrical Engineering.
Gamma Sigma, Tau Beta Pi, Theta Tau
(U. of Utah), Sigma Xi (Associate).
Blackfoot, Idaho; Born December 7,
1905; Prepared at Blackfoot High School;
U. of Utah 1923-26; Entered 1926; A. I.
E. E. (3, 4); President (4); Swimming
(3); Football (3, 4); Dramatic Club
(3, 4).

EDWARD EUGENE TUTTLE

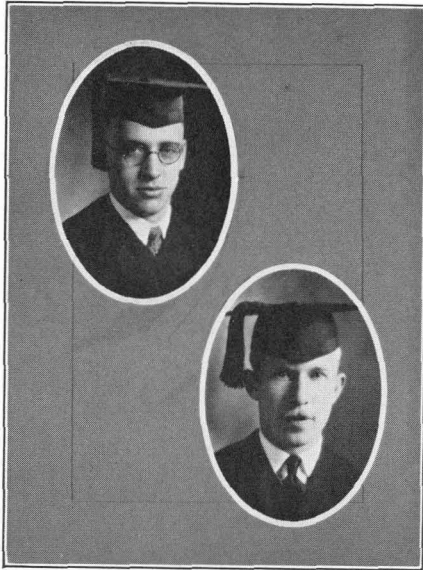
Physics.
Tau Beta Pi, Omega Xi Alpha.
Los Angeles, Calif.; Born October 28,
1907; Prepared at L. A. High School; En-
tered 1924; Glee Club (3); Press Club
(4); Throopers (4); Tech Staff (2, 3);
Assistant Copy Editor (3); Copy Editor
(4); Debate (4); Honor Key (4).

PAUL B. WAGNER

Physics.
Tau Beta Pi.
Schirnock, Germany; Born March 18,
1906; Prepared at Oberrealschule, Heilbronn,
Germany, and Polytechnic Evening High
School, Los Angeles, California; U. C. L.
A. 1924-26; Entered 1926.



826T



RALPH CLARENCE WEBER

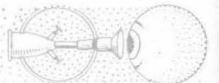
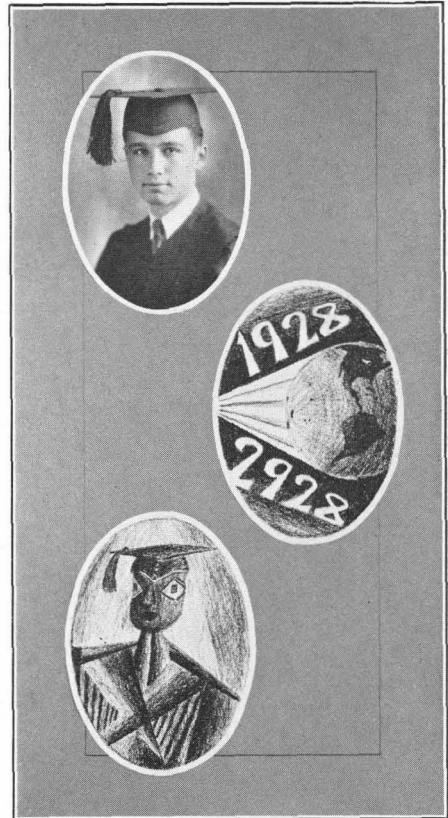
Electrical Engineering.
San Bernardino, California; Born November 19, 1904; Prepared at San Bernardino High School; Entered 1924; A. I. E. E. (2, 3, 4); Dorm Club (1, 2, 3); Basketball (1); Track (2, 3, 4); Greek Plays (4).

BAKER WINGFIELD

Chemistry.
Pharos.
San Angelo, Texas; Born March 31, 1904; Prepared at Manual Arts High School, Los Angeles; Entered 1922; Varsity Club (4); Swimming (1, 2, 3, 4); Chem Club (1, 2, 3, 4).

JOSEPH WILLIAM SCHWEINFEST

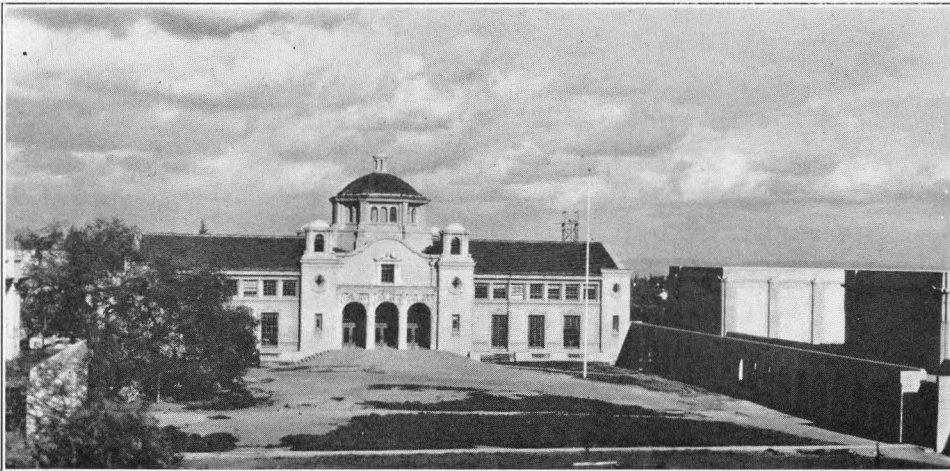
Physics.
Pharos.
Hamilton, Ohio; Born April 22, 1907; Prepared at Anaheim Union High School; Entered 1924; Basketball (1); Baseball (1); Tech Staff (3); Alumni Scholarship (1); Blacker Scholarship (2, 3); Travel Prize (3).



CASUALTIES

CLASS OF 1928

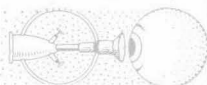
Bannister, Morton W.	University of Arizona
Baustian, Wilbert W.	Now a member of class of 1929
Billig, Harvey E.	Stanford University
Bloedel, William H.	Dropped out December, 1924
Bunker, Evans C.	University of Washington, Law School
Compton, Thomas H.	Now a member of the class of 1929
Corcuera, Carlos L.	Oxford University, England
Davis, Austin L.	Now a member of the class of 1929
de Broekert, Frederick W.	Employee, Yellow Cab Co.
Dickinson, Henry B.	Dropped out June, 1926
Dodge, Howard G.	Now a member of the class of 1929
Fitzgerald, Vincent J.	Dropped out December, 1924
Ford, Frank H.	Working at Porterville, California
Foster, Lawrence E.	Employee, Goodyear Rubber Co.
Fulks, Joe Robert	Dropped out June, 1925
George, Wallace S.	Employee, Brown & Pengilly, L. A.
Gilbert, John G.	Now a member of the class of 1929
Goodwin, John S.	Now a member of the class of 1929
Gray, Anthony W.	University of California
Grimes, Walter B.	Now a member of the class of 1929
Hicks, Franklin C.	Employee, Edison Co.





CASUALTIES

Hilligas, John W. _____ Georgia Tech
 Hollingsworth, Robert B. _____ Stanford University
 Hughes, Alan _____ Employee, First Trust & Savings Bank, Pasadena
 Johnson, Donald H. _____ Now a member of the class of 1929
 Lynn, Lawrence E. _____ Now a member of the class of 1929
 Lyter, Albert D. _____ Now a member of the class of 1929
 MacLane, Glenwood L. _____ Now a member of the class of 1929
 Maddux, Albert L. _____ Ranching in Santa Ana
 Magruder, Edwin C. _____ Working in Redlands
 Malloch, Robert S. _____ Teaching school in Riverside
 Martinelli, Engo A. _____ Employee, Universal Studios
 Mason, Harry S. _____ Now a member of the class of 1930
 Mason, Kingdon L. _____ Working at Santa Monica
 Mauzy, Harris K. _____ Now a member of the class of 1929
 McDonald, Donald E. _____ Dropped out April, 1925
 Mills, Gilbert N. _____ Stanford University
 Mohr, William H. _____ Now a member of the class of 1929
 Morris, James W. _____ Dropped out December, 1924
 Musselman, Philip E. _____ University of Arizona
 Netz, Donald C. _____ Deceased
 Niles, Joe A. _____ Now a member of the class of 1929



CASUALTIES

Parsons, Seth H. _____ University of Nebraska, College of Medicine
 Peterman, Harry A. _____ Employee, Edison Co.
 Phillips, Julien F. _____ Now a member of the class of 1929
 Pierce, Firth _____ Now a member of the class of 1929
 Pohl, Wadsworth E. _____ Now a member of the class of 1929
 Reinen, Otto F., Jr. _____ Now a member of the class of 1929
 Robinson, True W. _____ Employee, Mount Wilson Observatory
 Robinsōn, A. Alan _____ Dropped out December, 1924
 Ross, Dick R. _____ Working in Arcadia
 Rummelsburg, Alfred _____ Now a member of the class of 1929
 Scullin, Conrad J. _____ Employee, Union Oil Co.
 Sperling, Milton H. _____ Employee, Shell Oil Co.
 Sweeting, Howard E. _____ University of California, School of Architecture
 Thompson, Frank W. _____ Now a member of the class of 1929
 von Beroldingen, Linton Paul E. _____ Convalescing from overwork
 Watson, Harvey S. _____ Dropped out June, 1925
 Weego, George W. _____ Employee, Pacific Electric
 Westphal, Richard D. _____ Manager, Southern Territory, Victor Phonograph
 Wheeler, Leavenworth, Jr. _____ Dropped out December, 1924
 Wilmot, Charles A. _____ Dropped out June, 1926
 Wittmer, Charles J. _____ Aviator



1929

JUNIOR CLASS

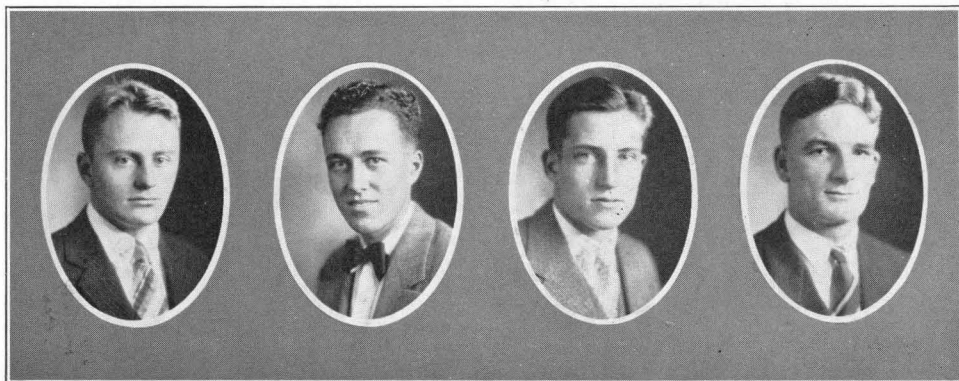
John Daly	.....	President
Clyde Shields	.....	Vice-President
George Weismann	.....	Secretary-Treasurer
Francis Bode	.....	Athletic Manager
Oswald Zahn		
Homer Reed		
Morton Shields	}	Board of Control

Displaying a spirit of enthusiasm and independence from the first, the Class of '29 has turned its energies to good account during its stay at the Institute. As freshmen the class very early showed its mettle in several impromptu encounters with the sophomores, although its defeat in the annual rodeo obliged the men of '29 to treat the second year men to the traditional rodeo dance.

Class elections were held at the beginning of the second term, and Tom Evans, George Watson, Frank Higgins, and Jack Sturgess were elected President, Vice-President, Secretary-Treasurer, and Athletic Manager respectively. Under the supervision of the latter, a blue ribbon freshman interclass football team appeared for the first time in history.

In the second year the incoming freshmen were handled very effectively, and in the pushball contest the sophomores defeated the class of '30 by a score of seven to nothing. With Fred Bewley, Clinton Stickney, Kenny Kingman, and Mickey O'Haver at its head, the class had a very successful year, with many of its men stepping into prominence in campus activities and varsity athletics.

During the past year the good record has been continued. The class was leading in interclass athletics, with but baseball and wrestling yet to come in, and the number of juniors winning honor keys gives evidence of its position in Tech activities.

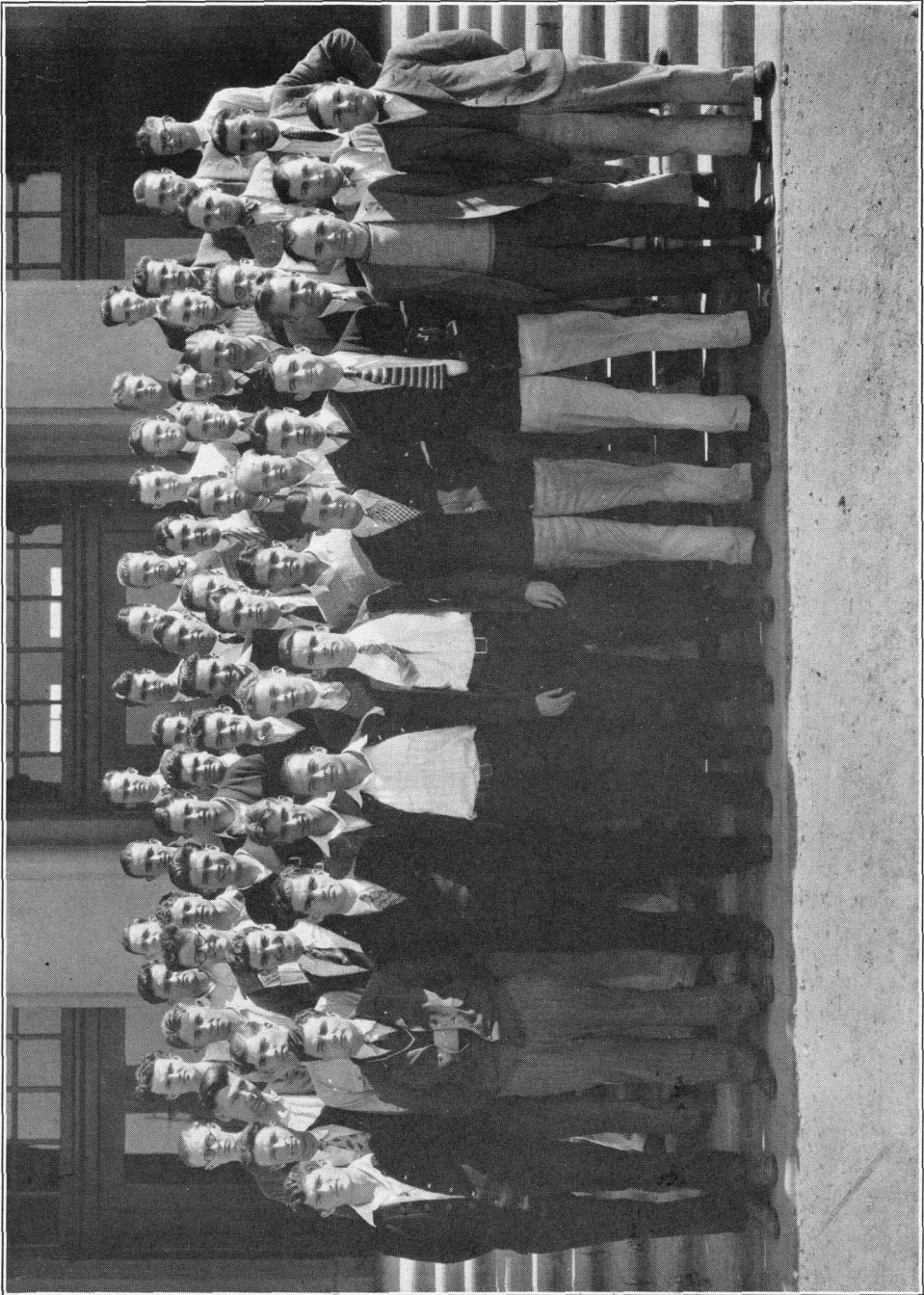
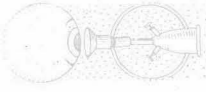


BODE

WEISMAN

DALY

SHIELDS



826T



1930

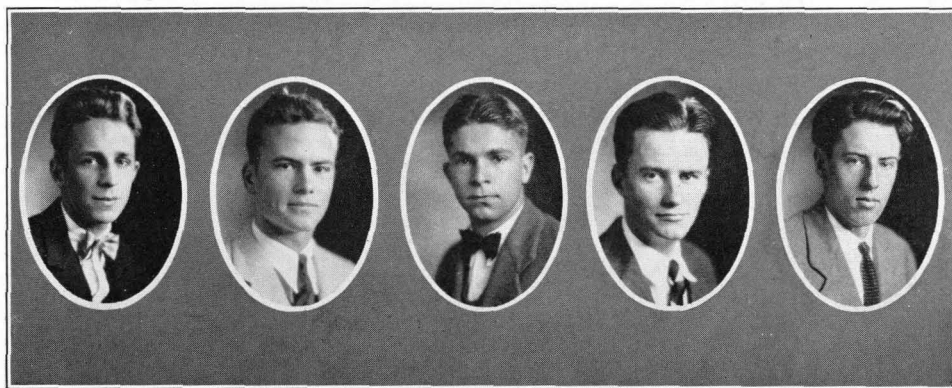
SOPHOMORE CLASS

WILLIAM TOWLER	.....	President
HORACE ALLEN	.....	Vice-President
FRANKLIN CRAWFORD	.....	Treasurer
SIDNEY ZIPSER	.....	Secretary
WILLIAM MORTON	.....	Athletic Manager
AUSTIN STRONG	}	Board of Control
ROBERT OAKS		

Under the capable leadership of Robert Oaks, Charles Herd, William Towler, Franklin Crawford, William Hacker, and Horace Allen, in the offices of president, vice-president, secretary, treasurer, athletic manager, and Board of Control representative respectively, the Class of '30 enjoyed a banner year as freshmen. The men entered whole-heartedly into the spirit of the Institute and worked out many constructive ideas with regard to the Tech traditions.

However, when the freshman year had been completed, there was one tradition it had yet to fulfill—the T on the mountain had not been cleaned. Plans were secretly prepared, announcements were made the final week of the third term, and on midnight after the Prom thirty-five determined sophomores were dragging shovels up the firebreak of Mount Wilson. Several hours later the morning sun shone brightly on the handiwork of the men of '30; a new concrete block inscribed with the numerals of another loyal Tech class rested in a corner of the huge T. Another class had infused its spirit into the great Tech tradition.

During the past year the class has maintained its important position in the campus life with much enthusiasm. The incoming frosh were successfully cared for, and the Rodeo was a complete success from the standpoint of the sophomores. The sophomore student body dance held at the Breakfast Club was one of the classic events of the year.



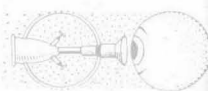
ZIPSER

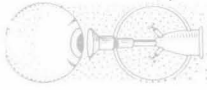
ALLEN

TOWLER

CRAWFORD

MORTON





1931

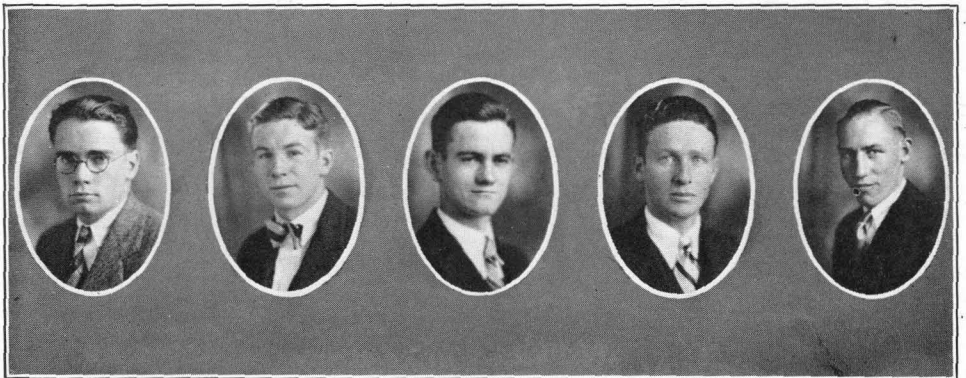
FRESHMAN CLASS

AUBREY HORN	.....	President
JACK MCGARRY	.....	Vice-President
JACK HATCHER	.....	Secretary
ARTHUR BROOKS	.....	Treasurer
LESTER FRICK	.....	Athletic Manager
DON PRENTICE	.....	Board of Control

The history of the Class of '31 was officially begun when the Executive Committee announced the appointment of Aubrey Horn as class chairman for the first term. A week later the first meeting was held, and Arthur Brooks and Jack Hatcher were elected to the offices of treasurer and secretary respectively. The first important activity undertaken by the class was the traditional dance given to the student body at the end of the first term. Howard Finney acted as dance chairman, and won undying fame for the great success of the event. At the opening of the second term the regular elections were held. In addition to the three men selected previously, the Vice-President, Athletic Manager, and Representative were chosen; Jack McGarry, Lester Frick, and Don Prentice received these remaining offices.

The chief social function of the second term was the Rodeo Dance in honor of the sophomores. The dance committee was again headed by Howard Finney, who seems to have a genius for arranging good dances.

Because of the new custom which excludes the two lower classes from the Junior-Senior Prom on June 9, these two classes are planning an informal dance to be held on the same evening. Both classes are looking forward to a friendly get-together in which all class rivalry will be left at the door.



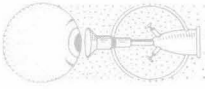
HATCHER

BROOKS

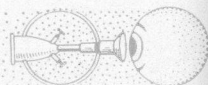
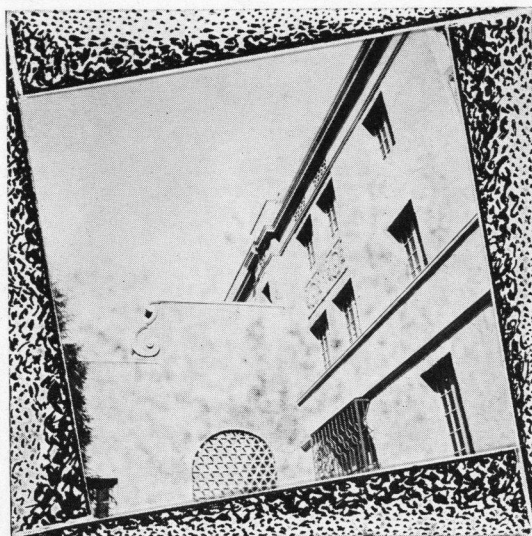
HORN

MCGARRY

FRICK

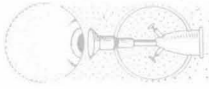


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STUDENT AFFAIRS



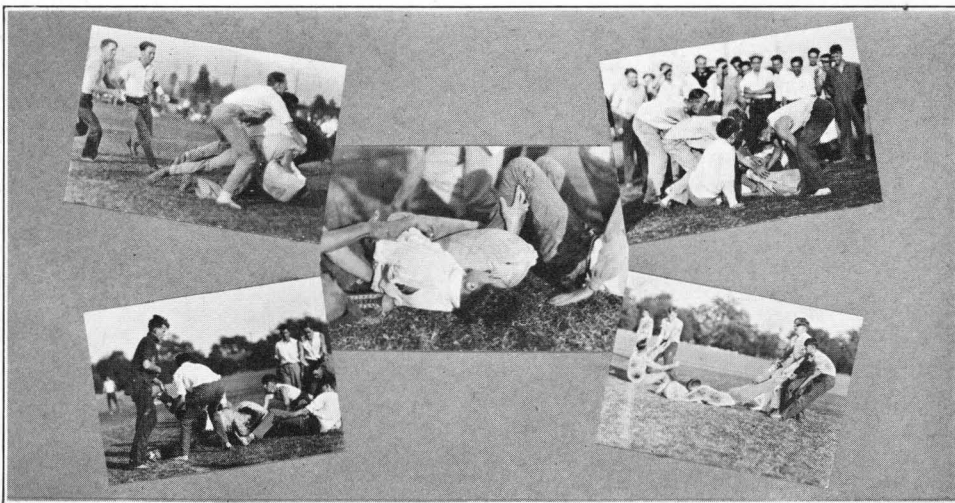
THE RODEO

On that day of all days for the class of 1931, October 7, 1927, the sophomores treated the pea-green newcomers to a hot necking and bending party on the field at Tournament Park. Of the scores of hectic battles which have been staged on the badly maltreated turf of the Park football field, this fray was without doubt the most up-to-date and sensational. Pole rushes, tie-ups, and similar sources of bent, twisted, and cracked limbs have had their day. A new type of outdoor sport has deposed these honored pastimes; a much more scientific means of arriving at the same end has been evolved.

The original plans for the afternoon's entertainment had included a pushball contest. As usual, however, the date had to be postponed several times for the well known reason—the lack of a pushball. It developed that there were but two of the much desired spheres in the sunny southland and further, that these two overworked specimens were both temporarily out of commission. Since the committee in charge of the performance could find no philanthropist or group thereof who felt inclined to take the responsibility for repairs, the proceedings were completely at a standstill. It was at this critical moment that some active mind conceived the brilliant idea which developed into the very latest in rough and tumbles—the sack rush.

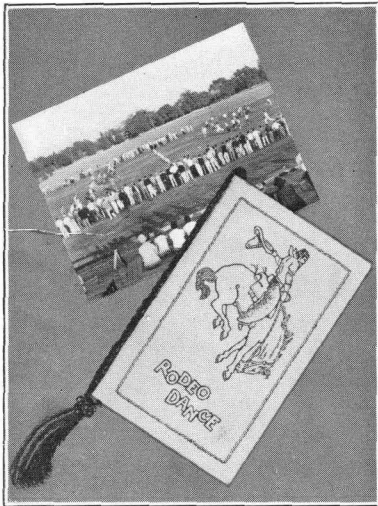
The object of the sack rush is to pull, drag, or carry a sack filled with what seemed to be several tons of sand to one end of the field—it didn't seem to matter much which end—said end being several steps away. To accomplish this feat necessitated the dragging of a few dozen violently resisting opponents together with the aforementioned indefinite number of kilograms of sand.

One of the novel features of the contest was that a sack in order to be counted as a goal, must be kept over the end line, so the struggle was by no means ended when a sack reached the goal. The most bitter battling, however, took place in the middle of the field where huge piles of humanity covered the unfortunate sacks.



1928





The first year men prepared for the battle by painting one arm orange and the other arm white for the purpose of identification, while the more sophisticated sophomores carefully planned their attack. From the opening gun it was apparent that the better organized campaign of the older men was well nigh irresistible. Although the frosh fought valiantly, age once more proved its superiority over mere beauty, and the sophomores found themselves so far ahead in the first of the three periods that the afternoon might well have ended then and there. The hard-working freshmen managed to drag two or three sacks across the line, but the total score was negligible in comparison to the grand total amassed by the second year men. The valuable experience obtained by the frosh, however, is almost certain to bring them victory over the incoming class of 1932.

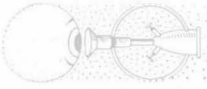
THE RODEO DANCE

As a reward for their successful efforts on the field of battle earlier in the year, the sophomores were the guests of the freshman class on March tenth at Culbertson Hall, on the occasion of the annual Rodeo Dance. It was considered best to allow the scores of weary and aching muscles which resulted from the momentous battle ample time for complete recuperation, and hence the intervening period of five months.

For many years this dance was given by the losers in honor of the entire student body, but for the last two years the losers have been required to entertain only those who administered the defeat. This reduction in the number of eligible Engineers has made possible the introduction of that strange mixture which we call quality in a dance. It would be futile to say further than that the Rodeo Dance of 1928 was very successfully compounded and administered.

RADIO PROGRAM

On the evening of October 22, the student body of California Tech sent through the microphone of the Voice of Hollywood the 1927 Engineers' program in the second annual college radio competition sponsored by the Desmond's store for men. The Tech representatives were competing with the other colleges of Southern California for a share in the thousand dollar prize fund. Those skeptical beings who for some unknown reason entertained the notion that Tech men know nothing but the value of the cosine of some angle or other, received the most agreeable surprise of their lives on the aforementioned evening.



The Tech program enjoyed the distinction of being presented in a novel and interesting manner. The presentation was well effected by using as the theme of the program the experiences of a group of Tech men en route to a football game. Some giant among the intelligencia had developed the sequence to such a degree that it was possible to present, while adhering to the theme, a great variety of the abundant talent which exists on the campus. Bill Olsen was chosen for the second year to represent the Engineers as chief orator, master of ceremonies, and deep-toned announcer.

Both the Tech Trio and the Band were called upon to entertain the boys as the buses theoretically drew near the scene of the big game, each organization clearly demonstrating the proficiency of Tech musicians and entertainers. That an engineer can sing, and sing well, was proved conclusively by Bob Snyder, who rendered several vocal numbers. Johnny Crawford, the indispensable, spread the atmosphere of Tech over many miles with selections on the piano, and the superlative duo, Booth and Allen, continued the good work by way of their banjos. No Tech program would be complete without the presence of the Booth-Allen banjo duet and the jazzy tunes from Crawford's fingers.

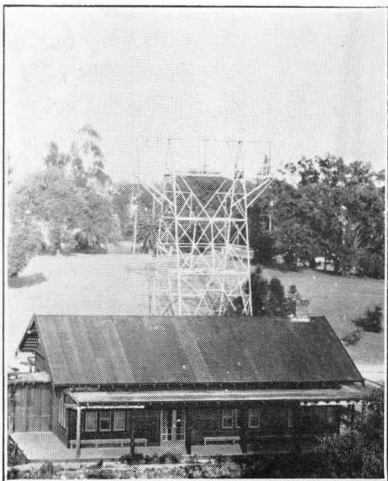
The presence of the fair co-ed among the numbers rendered by other colleges proved the undoing of the Tech aggregation, and the Engineers failed to share in the prizes. It is hoped that more of the talented entertainers on the campus will prepare numbers for the next contest which will be held in 1928, and that the addition of a few more snappy numbers may be sufficient to make up for the lack of feminine talent.

FACULTY STUDENT MIXER

The Dugout, Tech student center and Shrine of Friendship, was the scene of a peppy Faculty-Student Mixer on the evening of Friday, February tenth. The program was begun with a season of song, and a number of yells also aided greatly in driving away the demons of lonesomeness and the thought of studying that must be done. When the air of goodfellowship had been definite-

ly established, the real program was begun with a speech of welcome and a get-acquainted movement. Dean F. W. Hinrichs spoke briefly on the relation between faculty and student at the Institute, making clear the fact that the members of the faculty are at all times deeply interested in the men in their charge. As a contrast to the point he was making, Dean Hinrichs recited a Columbia University student song which in a spirit of fun condemns the faculty to the lower regions.

Several interesting and colorful Italian impersonations were given by Carmina de Lucca, "the senorita," as Kenny Robinson referred to her. From Italy the group then went to Ireland, the land of the belligerents, and sure enough, the fists flew thick and fast. Between the more or



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less bloodless rounds a wrestling exhibition was staged, and the Dugout resounded with the thump of falling bodies. The humor for the occasion was furnished by the casual remarks of the excited group and also by the consternation which prevailed when a water bucket originally intended for the use of the fighters was displaced from its upright position too suddenly to allow certain members of the audience time for escape.

The curfew was long overdue when the staggering freshmen were drinking their fourth glass of cider with evident effort, while the more staid and experienced seniors were arguing over the exact contents and whether the peculiar zest of the beverage was a result of the presence of salt or stronger ingredients. The embers in the great fireplace were by this time growing darker, preparation for the next day's grind was in order, and for these and other reasons the gathering slowly disintegrated and sought other locations, the students with a new respect for the older men, and the faculty with a better understanding of the men of the student body.

WHITTIER EXCHANGE PROGRAM

At the Friday Assembly on January 20th, Whittier College sent a large group of entertainers to Tech in an exchange program which was later returned to our neighbors by some of our own artists. William Sucksdorf, Whittier's student body president, opened the program with greetings from that institution and with an expression of hope that his college should always remain as a "friendly rival" to Caltech. Bob Tomelson was then introduced, and offered two piano numbers taken from the many requests made by the audience.

Next followed some very enjoyable and amusing numbers offered by the Whittier Men's Quartet composed of Berger, Ringland, Cole, and Peel. Miss Alice Myers and Miss Marion Young next offered a violin duet. Miss Cherry McRae, accompanied on the piano by Bob Tomelson, gave several jazz songs which the Tech male audience enjoyed very much.

Possibly the best received of all the offerings was that of Joe Ringland, who entertained his attentive listeners with novel performances on his harmonicas. This versatile young man had different kinds of harmonicas in each pocket and with each new one he took out, seemed to be able to emit even more unusual and eloquent sounds than with the preceding instrument.

Miss McRae, the charming co-ed who had entertained the Engineers earlier in the program, concluded the Assembly with more jazz songs and finished her selections only after she had answered many encores for the delighted Tech men.

TECH AT WHITTIER

Spurred to great effort by the example set by Whittier entertainers on the occasion of their visit to this campus, the Tech exchange program artists journeyed to the Poet institution to perform after the manner of performers.

The ever popular Booth-and-Allen banjo combination exerted themselves successfully and earned great applause. The Trio and the Glee Club presented a variety of songs in such a way as to lead the audience to spontaneous applause at the end of each number. Merrill Tucker was on hand with a complete stock of harmonicas and kindred mechanisms and sufficient wind and ability to operate them successfully. Al Lombard performed with a jug of liquid air, surprising the multitude by transforming weinies, rubber balls, bananas, and other objects into rigid forms.



JUVENILE TROUBADORS

If there is any one thing in the world that will induce the student of engineering to attend an assembly it is the fact that the program is to feature young ladies, in either musical or other numbers. On March 12, the Juvenile Troubadors, an amateur group of Pasadena young people, organized over two years ago by Mr. and Mrs. Fred Walker, entertained the students with song and dance. With seats in the baldheaded row bringing premium prices, the group made itself famous.

Their program included dance, vocal, and other musical numbers. The versatile young lady who performed as leader, induced much applause by her additional talents as singer, whistler, and dancer. The diminutive miss who advanced to the center of the stage to sing the chorus of the songs was catalogued for future reference by enthusiastic listeners.

DORM DANCES

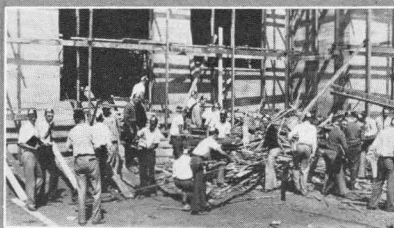
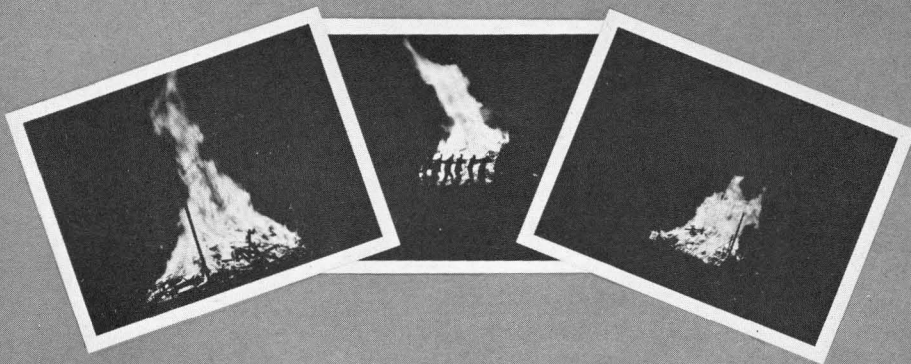
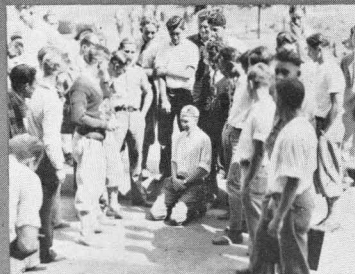
The first Dorm Dance of the year was a very successful affair held on October 26, 1927. This, as a few of the Tech men will remember, was the Wednesday before Hallowe'en and hence the decorations consisted of corn stalks and pumpkins raided from nearby farms. Need it be said that the residents of the dorm had pumpkin pie very frequently immediately following this event?

The dance was given in the living room of the Dorm, which is of ample size and has a remarkably good floor. The orchestra was copiously caloric and the fun was greatly increased by the distribution of vast amounts of confetti and serpentine. Only residents of the Dorm were invited and all of them will agree that this was one of the best dances of the year.

The second Dorm Dance was held in Culbertson Hall on February 11. There was a full moon that night and the orchestra was one of the best. Nearly sixty couples turned out, and that they thoroughly enjoyed themselves both during and after the dance is easily verified by the testimony of every inhabitant of Dormenia.

On the whole, although there were only frosh in the Dorm this year, the dances given left nothing to be desired.







OXY RALLY

Tech tradition lived again in all its glory when, on Friday evening October twenty-eighth, the student body turned out en masse to take part in the big football event of the year, the Oxy Rally. In an effort to outdo all previous freshman classes the men of 1931 presented to the student body a huge pile of wood, boxes, and other combustibles the equal of which has seldom been seen on any campus. Although many hours of hard work had been expended in gathering the mighty conglomeration of materials, the weary limbs were soon restored to normal by the sight of the fiery beacon and by its comforting warmth. The cheering spectacle of the giant flames, symbolizing the Tech disregard for the powers of the Oxy Tiger, served even to distract the attention of the first year men from reflections pertaining to the rapid rate with which the product of their labor was being consumed.

Promptly at seven o'clock the Tech yell leaders took charge of the gathering and the Rally was on. Two former captains of Tech football teams were present at the important meeting and were called upon for speeches. Both of these former leaders had taken part in thrilling Tech victories over Oxy in previous years, and did their best to arouse the pajama clad crew which faced them before the great fire on Paddock Field to the fighting pitch necessary for another victory. After the short but encouraging talks by these guests of honor, other talks were heard from the coaches. The combined effect of the fiery speeches and the fire which blazed on the field was demonstrated by the extreme vociferousness of the yelling under the leadership of the staff of yell kings.

Following the local pep meeting, a serpentine of enormous length around the now excessively warm bonfire was begun, the already grotesque figures receiving an additional weird touch from the play of the flames on the varicolored articles of night attire. Not to be further restrained, the curious looking aggregation soon set forth on the time honored pajamerino through the streets of Pasadena. The pajama clad crusaders pursued a dangerously uncertain path down the main streets of the fair city, utilizing as a marching song the familiar little ditty which has for its main purpose the relegation of certain inhabitants of Eagle Rock to the darker regions. Traffic movement along the various thoroughfares was unusually slow for a considerable portion of the evening, many of the motorists stopping to enjoy the strange spectacle, and many others stopping out of proper respect for the wishes of the paraders. The usual stops were made at the Raymond and Florence theatres, where Connie Scullin and his motley crew attempted to convince the theatergoers that they should be present on the morrow at the Big Game of the year. Citizens of the town were treated to several choice song and yell numbers at the important intersections before the many weary wayfarers wended their way homeward proclaiming the evening as the best Oxy Rally seen in years.

FRESHMAN-STUDENT BODY DANCE

The Hotel Vista del Arroyo was the scene of the annual Freshman dance on December nineteenth, the dance being held in honor of the student body



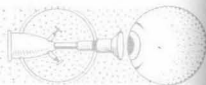
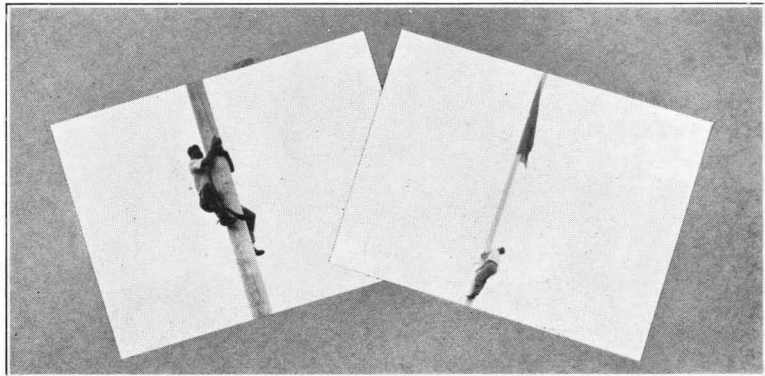
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by the class of '31. Couples began gathering in the garden of this beautifully situated hotel early in the evening and hence the dance was well under way by nine o'clock, which is no mean record for Tech dances. The great aim of the class in preparing for the dance was to present a dance which would be long remembered by all who attended, and the result of its efforts was indeed gratifying. Excellent music did much toward making a huge success of the affair, as good music has a habit of doing. The decorative idea was also in keeping with the avowed intention of creating a distinctive party, notable among the lighting arrangements being a large neon-light T which a number of the men labored long and hard to produce. Two floors were available for the dancers, and plenty of punch had been prepared. The resulting combination left nothing to be desired. Many were the hearty commendations heaped upon the class of '31 for the entirely successful evening.

EMANCIPATION DAY

On Friday, February 24, the class of 1931 announced to the world that the great day of its freedom had at last arrived. In accordance with a long standing, yet lately revised tradition, this day marked the legal and official emancipation of the first year men. The Emancipation Proclamation was read with many flourishes and more or less solemnity on the floor of Culbertson Hall in the regular student assembly, the important document receiving most hearty applause from the vast throng of Tech men who attended the assembly.

Immediately after the reading of the proclamation, the jubilant frosh made haste to discard those remaining vestiges of their former lowly social position on the campus, donned all the articles within reach which contained traces of the heretofore forbidden red hue, and marched en masse through the north door of Culbertson Hall to gaze upon a new and more beautiful world. The next move in the grand rush for freedom and equality was the storming of the main doors of Throop Hall and the north stairs of the same edifice; the above mentioned storming, however, closely resembled the proverbial bloodless revolution, since no enemy save ingrown timidity stood in the path of the conquering host.





FOOTBALL BANQUET

Possibly the biggest function of the college year occurred on November 30th when the fourteenth annual Football Banquet was held at the Masonic Temple in Pasadena, for the awarding of football letters and for an informal discussion of Tech's position in athletics. Professor Royal W. Sorensen, the toastmaster of the evening, kept everyone on the alert to follow his spicy humor and to enjoy his famous "wisecracking."

During the course of the banquet, Bill Olsen led the large group of undergraduates who were partaking of the fine food which our Masonic friends had prepared for them, in a number of humorous songs. A song about "Porky" Cravitz to the tune of Solomon Levi was greatly enjoyed by the audience, while a verse connecting Phil Durfee with the song "Baby Face" caused our fighting center to redden considerably under the collar.

After the repast had been stored where all good repasts are wont to go, the pleasure of handing out letters to the football men, both varsity and freshman, was carried out in an efficient manner by Connie Scullin, our student body president. Speeches came hard to many of the men who received the coveted orange T, but all were applauded vigorously.

Doctor Millikan gave some interesting comments on the athletic situation at the Institute and praised the men on the football team highly for the clean sportsmanship they had shown throughout the season. Les Henry, manager of the East-West football games for the Tournament of Roses Association, was the chief speaker of the evening. Choosing as his subject, "Good Sportsmanship and Clean Playing in Intercollegiate Competition," he cited Tech as a shining example of a college which shows the right athletic spirit and temperament. The speaker went on to discuss his experiences in scheduling East-West football games and concluded by again complimenting Tech on the fine athletic and intellectual qualities of its students.

The banquet ended with a rousing cheer for Captain Bill Mohr, who leaves us this year, and a second cheer for Captain-Elect Elmer Muff, who we feel sure will lead us to just as successful a season in 1928 as was experienced in 1927.

TECH STAFF THEATER PARTIES

The Tech staff abandoned typewriters and all scientific pursuits on the evening of November ninth to enjoy its first Theater Party of the year. The entire staff, from editor-in-chief to cub reporter, moved in a body to see the Community Playhouse presentation of "The Admirable Crichton," a comedy dealing with the remarkable engineering achievements of a shipwrecked butler. On leaving the theater after the performance, the journalists were forced to contrast the beautiful desert moonlight of the play with the rain that was falling in Pasadena. The rain, however, failed to dampen the general success of the venture.

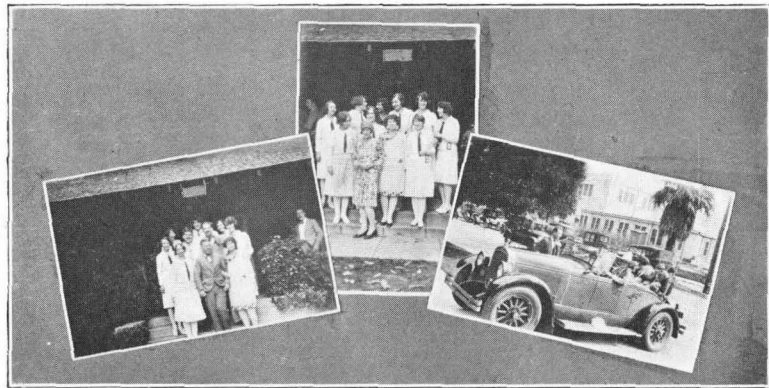
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BASKETBALL LUNCHEON

A luncheon in honor of the 1928 basketball lettermen was given by the Throopers in the Dugout on Wednesday noon, March 7. "Eat, drink, and be merry" were the watchwords of the large group of students present, as they entered into the spirit of the event. Food, speeches, awards, gifts, and fun were all so happily mixed in this modified banquet that it is practically certain that this event has now become a tradition as deep-seated as the Big Football Banquet.

Eight varsity men and the senior manager were each awarded the coveted T. Captain Ed Joujon-Roche and Captain-Elect Al Cramer made short speeches, thanking the student body for the awards and what little support the men had given the team during the season, and pleading for better support of basketball teams in the future.

Nine freshmen, including the manager, received their numerals for the season's work on the basketball floor.



OXY GIRLS' GLEE CLUB

One of the most popular of the many entertainments given in the student assemblies, is the annual exchange program brought to Tech men by the Girls' Glee Club of Occidental College. At the assembly of February 24, the dirty Engineers were favored with the 1928 edition of this annual affair. Seldom are entertainers received with more enthusiasm and real appreciation than were the members of the Oxy Glee Club on this occasion, for the feature numbers were of the very highest quality. In addition to several excellent numbers by the entire Club, special numbers were presented which well deserved the applause received. A Spanish dance offering made an especial hit with the Tech men, as did also the recitations, piano selections, and the clever skit. Solo numbers were also well received. A return program was presented by the Tech Glee Club and entertainers at Oxy, the men outdoing themselves to equal the quality of the Oxy girls' selections.



GLEE CLUB CONTEST

Winning the third place was but one of the pleasures enjoyed by the Tech Glee Club, when it invaded Redlands on February 24 to participate in the Annual Southern Conference Intercollegiate Glee Club contest. After a banquet at the First Methodist Church in Redlands, the Combined Glee Clubs journeyed to the University of Redlands' Auditorium where the contest was held.

Pomona and Redlands, winning first and second places respectively in both the men's and women's divisions, were the others scoring in the contest, in which each Club sang three selections—the contest number which was "The Broken Melody"; a special number, for which Tech chose "Carmina"; and a medley composed of the respective college songs. In order to enliven the passing of time, the combined women's Glee Clubs sang "Hymn of Thanksgiving," the combined men's Glee Clubs sang "Bells of St. Marys," while the judges were compounding their fateful decisions.

After the closing of the contest, at an hour very near midnight, the troubles of the Tech men began, resulting in a broken down bus, which none of the "engineers" were able to fix. The warblers finally reached home, but not without hardship which did much to counteract the effects of the previous good time.

TAU BETA PI DANCES

In keeping with the custom long observed by the Institute chapter of Tau Beta Pi of providing a dance and entertainment in honor of each group of initiates, two memorable formals were held this year in Culbertson Hall. The first of these was held early in the first term in honor of incoming senior members of the organization; the second was held during the second term, with the new junior members in the position of honor. Culbertson Hall was transformed on each occasion by means of beautiful palms and streamers consisting of the seal brown and white recognized as the colors of the society. The hanging of the lighted bent of Tau Beta Pi at the entrance to Culbertson Hall is always welcomed by the men on the campus, for the high quality of Beta chapter dances has made them very popular.

NEW YEAR'S PARADE

The Tournament of Roses! An event which dwells in the minds of Pasadenans as one of the greatest events of the entire year! It was an especial distinction for Tech's band to be called upon to march in the world famous parade. With their many elaborate steps the band members proved one of the outstanding features of the day and their ability placed them among the leaders of the parade.

Snappy orange and white uniforms added to the color of the occasion and although the Band was small in numbers, it made up for lack of strength many times over in pep. After the parade was over the members who marched received tickets to the big Stanford-Pittsburgh game in the Rose Bowl, a treat that more than made up for tired feet and fagged lips.

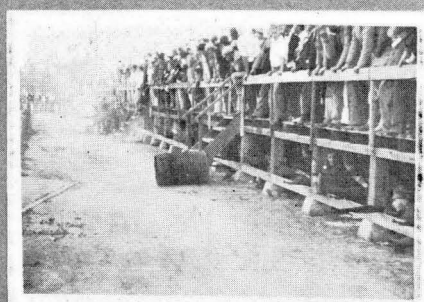
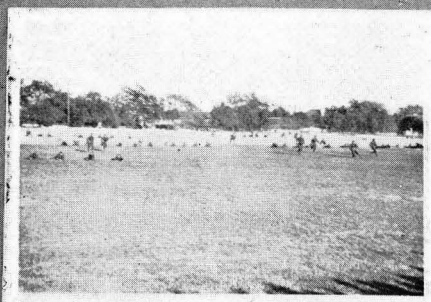
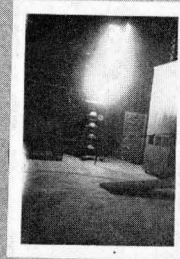
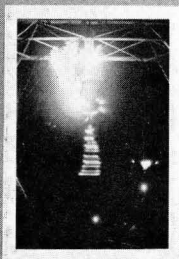
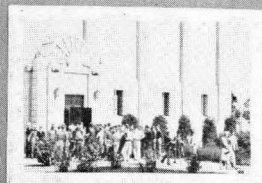
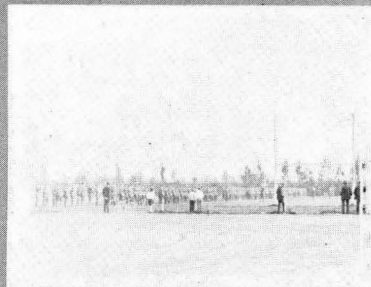
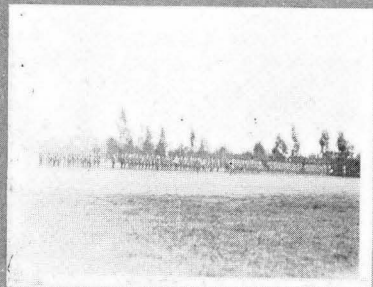
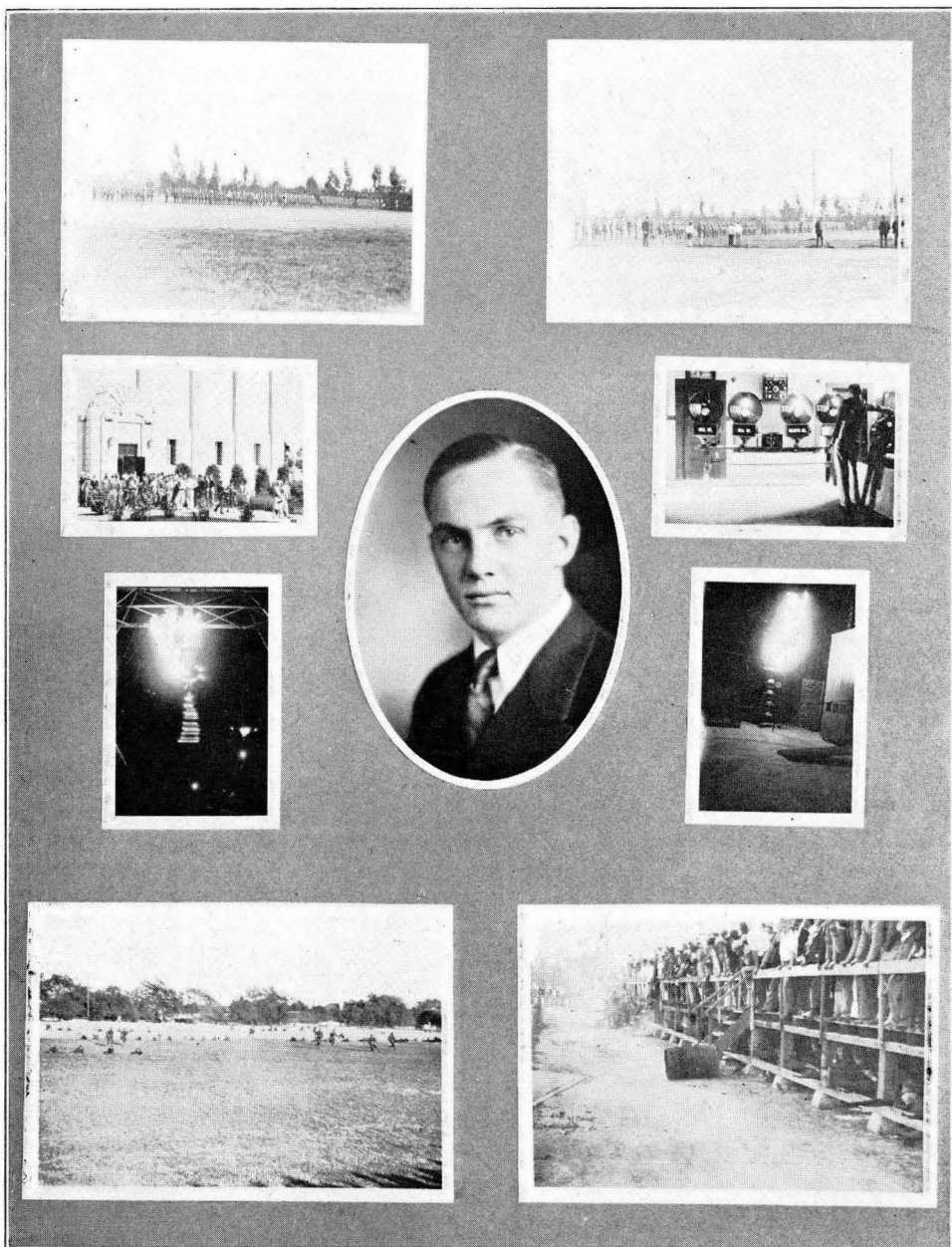


EXHIBIT DAY

The Annual Exhibit was held this year on April 13 and 14. The Exhibit is organized each year with the object of better acquainting high school science students with the type of work, and the opportunities for study offered at the Institute. It represents, in addition, an exceptional opportunity to the general public to inspect the Institute facilities. The research work carried on at the Institute is oftentimes of so delicate a nature as to make it impossible to permit the public to visit the departments except on these designated days, at which time every effort is expended to thoroughly display them.

Having once registered, the traffic was divided into small groups, each under the direction of a competent guide. The various exhibits, each characteristic of the work of the department in which it was being conducted, were in charge of students.

The Edison High Voltage Laboratory, as in past years, proved to be a powerful drawing card with its demonstrations of electrical phenomena conducted at voltages ranging up to one million. The importance of the experiments carried on in the Laboratory is being recognized by many people, and an opportunity to inspect both the laboratory and its equipment is eagerly taken advantage of.

The Norman Bridge Laboratory, with experiments being conducted in both graduate and undergraduate laboratories, and demonstrations in the Lecture Room, appealed to a correspondingly large group. Of especial interest was the liquid air demonstration. The fact that people were able to view many applications of air in the liquid state in addition to viewing its manufacture made it doubly appealing. The Millikan oil drop experiment, greatly simplified for the purpose of the exhibit, the singing sewer pipes, Brownian movements, and the many others all attracted their quota of astonished and incredulous visitors.

The newly organized department of geology and paleontology, with comprehensive exhibits relating to invertebrate and vertebrate paleontology, physical and economic geology, mineralogy and petrology, found itself to be highly popular with the crowds.

In the departments of Chemistry and Chemical Engineering, exhibits were provided revealing the nature of the work engaged in by both the undergraduate and research students. The groups were conducted through the buildings in such a manner as to introduce them to the experiments in ascending order of complexity. The hereditary synthetic punch bowl was so generously patronized as to press the supply to capacity. The experiments on coal-tar derivatives, fixation of nitrogen, colloidal solutions, manufacture of paper from wood, drew perhaps the largest groups, due to their prominence in commerce today.

Inspection of the Hydraulics and Mechanical Engineering laboratories revealed the diversity of types of experiments carried on in the department of mechanical engineering. In addition to the laboratory exhibits, the visitors were given an opportunity to view examples of the theoretical work undertaken by the department.

The Civil Engineering Department, with its wealth of computing apparatus, its field equipment, its structures used for theoretical discussion and investigation proved to be the drawing card it has always been. The Testing

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Materials laboratory with its torsion, tension and compression tests on metals, woods and concrete gave experimental basis for the design work conducted by the department.

Particularly extensive were the exhibits of the Military Department. In addition to displaying the equipment in actual use by the department, the Committee was so fortunate as to secure the use of a 1,340,000,000 candle power army searchlight, the powerful beams from which were played over the surrounding country all evening. The light was obtained from Fort MacArthur. A review, a parade, and a sham battle completed the display of this department.

Over three thousand visitors inspected the Institute during the two days of the exhibit. The fact that the crowds were handled efficiently, and that the exhibits were so arranged as to make it possible to show the entire campus without hurry or without missing anything reflects great credit upon the Exhibit Committee, headed this year by Albert Lombard. Working with a large group, Lombard so divided the work as to give each committee man a definite part to perform.

The Exhibit is under the direction of the students, working with the faculty. Professor Clapp was the faculty representative on the committee, and his timely and mature advice was of great benefit. Professor Clapp has been interested in the work of the students for many years, and it has always been his desire to conduct the exhibition in such a way as to attract the best of the graduates of the various high schools.

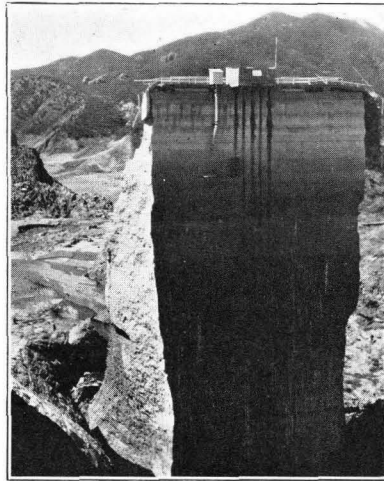
ENGINEER BLOWOUT

The entire Engineering contingent of the Institute undergraduates, in order to revitalize their failing health in preparation for the term finals, spent the evening of Saturday, May 19, at a peppy beach party. Starting with a bang, the "dirty" engineers enjoyed the troubled surf for two lively hours, the number of splashing couples being a fairly high percentage of the total number in the group in spite of the late hour. Then, as yet untired by the rigors of the struggle with the elements, the doughty followers of the path to freedom by way of truth invaded en masse the Belmont school of the dance and trod the polished floor until eleven. With the music of the dance still ringing in their ears, the Engineers and their girl friends quitted the bright lights and answered the call of the shifting sands and incidentally of the hot dog. A new kind of science then occupied the attention of the hard-boiled revellers for a brief time, this greatly condensed course of scientific investigation leaning dangerously toward the domestic arts. Although not all of the men demonstrated that they could qualify as finished chefs, they managed to attain sufficient dexterity to brown an occasional "weenie" without complete annihilation of those particular portions of the moonlight repast. The city authorities of Seal Beach had provided a very unmistakable moon for the use of the Tech group, and the deep appreciation of this forethought caused the hours to slip away unnoticed. Came the wee small hours, and time for even engineers to retire, hence the evening of enjoyment was brought to a much regretted close.

INSPECTION TRIPS

The year just passed has been by far the banner year of all time at Tech with regard to inspection trips of every kind. To the geologists go the honors for the greatest number of tours of investigation taken by any of the professional societies. Trips were taken to the Santa Barbara mountains for the study of faults and formations, to Randsburg for a consideration of ore deposits, and to Lower California and Mexico.

The electrical and mechanical engineers, co-operating with industrial plants and municipal authorities throughout the surrounding territory, have taken a number of very instructive trips for the purpose of studying methods and organization and equipment used industrially. The Pasadena Power and Light Plant, Axelson Company, Standard Gasoline Company, Standard Oil, battleship Medusa, and a host of other points were included in the year's itinerary.



The civils took several trips to the offices and plants of various engineering organizations, including the Edison Company, Union Iron Works, Pacoima Dam, and others.

The most important trips of the year, however, were those taken by the societies to the site of the St. Francis Dam. Practically every man on the campus visited this scene of failure. Never before have young engineers been offered such an outstanding object of study.

PROFESSIONAL SOCIETIES

Of especial interest to the civil, mechanical and electrical engineers were the meetings held at the Institute with the Los Angeles chapters of the national organizations. Dinner meetings in the Dugout were staged by the student chapters. More than two hundred members of each organization were present at these interesting discussion groups, the largest attendance being recorded by the A. S. C. E. when 240 plates were accounted for. Analysis of the St. Francis Dam disaster followed the dinner.

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SOPH STUDENT BODY DANCE

As guests of the sophomore class, the entire student body spent the evening of March seventeenth at the Breakfast Club in enjoyment of a notable dance. Owen Fallon's orchestra provided the finest in music. The dance fell on Saint Patrick's Day, and consequently the decorations were in keeping with that occasion. The Breakfast Club is a newly completed structure, and has a splendid ball room that amply provided for the space requirements of the number present. The programs were cubist in design, the punch modern in content, and the evening full in enjoyment.

CHEM CLUB DANCE

Seven-come-eleven! What's the next dance? A pair of huge dice were thus utilized to determine the order of the twelve dances in the Chem Club Frolic on May 12. Held where all good dances are held, in Culbertson, it was nevertheless unique among Tech dances, not only in the novelty dances introduced, but in the whole program from start to finish. Being a chemical affair, the famous synthetic punch was dispensed through a miniature distillery composed of flasks, condensers, and other well known chemical apparatus.

And then the orchestra, and the programs—they are too well remembered by all those in attendance to be again described, if describing were at any time possible; they had to be heard and seen to be appreciated.

Of course the moon entered into the occasion, as moons will, and some sat out dances, as some will, but wondering what would happen next kept most of the couples at hand, for they did not want to miss anything.

The Chem Club wishes to thank Dr. and Mrs. J. E. Bell, Dr. and Mrs. Lacey, and Mr. and Mrs. J. O. Beckman, who were the patrons and patronesses, and who thus aided in making the occasion successful.

TECH STAFF DANCE

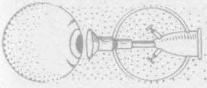
Programs done in true cave man style were the big feature of the annual Tech Staff dance held on May 18 in Culbertson Hall. This enjoyable dance has now become a necessary part of the campus life, and bids are eagerly accepted by men of Tech. Journalistically inclined members of the staff of the Tech predominated in the group attending, but many other members of the student body made a particular point of being present and adding to the festive spirit of the occasion. Good music and delicious refreshments added their bit to the success of the event.

BASEBALL LUNCHEON

The annual Baseball Luncheon in honor of the baseball lettermen took place late in the third term of the year, the Dugout again serving as the banquet hall. Sweaters and letters were awarded the following men for their work on the diamond: Captain Muff, Cramer, Olsen, Reed, Pritchett, Taylor, O'Haver, Boyle, Hillman, Dickerman, Folckemer.

Awards for the swimming team were made at the same time, minor sport letters being conferred upon: Wingfield, Berry, Crosher, Bode, MacDonald, Grimes, Keeling, Shields, Cline, and Dunham.



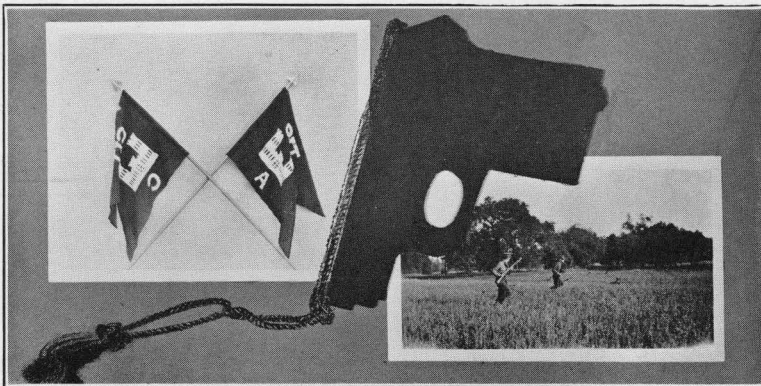


PI KAPPA SIGMA DANCE

On the evening of April seventh, Pi Kappa Sigma, honorary military fraternity, entertained with a formal dance in Culbertson Hall in honor of its eleven newly acquired pledges. Members of the fraternity were resplendent in brass buttons and Sam Browns, and those fortunate enough to receive guest cards appeared in the standard formal accoutrements.

Culbertson Hall, under any conditions a decorative place, was further embellished with unloaded rifles stacked in corners, and a machine gun facing the dancers from a point on the stage immediately in front of the orchestra. The exterior decorations consisted of a formidable-looking trench mortar, which partially blocked the entrance to the hall, and a most inspiring collection of stars and moonlight.

The programs were of novel design, and expert execution. Fashioned after the lines of a service automatic, the cover was black with the fraternity crest in gold. The committee was fortunate in its choice of orchestra and punch, both of these important items contributing much to the evening.



POMONA EXCHANGE PROGRAM

Culbertson Hall was crowded to capacity by undergraduates of the Institute for the third time this year when the Pomona College entertainers visited the Engineers on Friday, May 11, and presented one of the best exchange programs ever witnessed on the campus. Fifteen members of the Pomona Glee Clubs made up the party, nearly all of whom also took part in the program. A feature of the program was the performance given by the two soft shoe artists. This number was an entirely new one in the history of local exchange programs and was very well received by the slower moving Engineers. A song and dance offering by the girls' chorus was also a big hit, while the violin and vocal numbers left nothing to be desired toward the completion of a perfect program. The Tech Glee Club members were unanimously agreed that this program far eclipsed their own program presented at Pomona, thus leaving a very unbalanced situation as regards exchange program features.

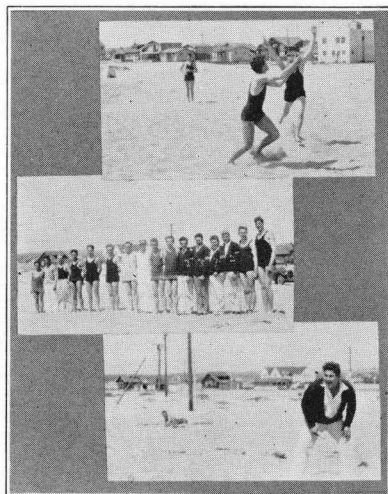




SENIOR DITCH DAY

Taking advantage of their partially exalted position on the campus, the high and mighty men of '28 observed the annual walk-out day on April 25. The remaining portion of the student body was greeted early on this day by a scathing denunciation and general burning-up in the form of the traditional proclamation relating to the hereditary privilege of the seniors to declare a holiday for themselves when and as they choose.

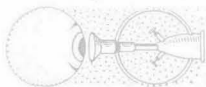
The scene of action for this particular Ditch Day was Balboa-bay, and beach. The day turned out to be one of those read about,—clear, warm, and typically "sunny." The latter characteristic of the day left its well-nigh flaming imprint upon many a member of the illustrious group, more than thirty of the frolicsome ones presenting a strangely flushed countenance for several days after the event. Not even the thought of future uncomfortable tightness of formerly loose fitting clothes could induce the men to provide covering for the relatively large exposed areas, and old Sol took unfair advantage of the irresistible opportunity to brand these tender hides.



The program for the day's enjoyment began with the inevitable game of baseball, following which came several hours of swimming and water sports. Many parts of the bay and channel were traversed and retraversed by the enterprising swimmers, some of whom so far defied the elements as to breast the raging torrent which swept through the inlet.

Boating proved to be very popular with the ditchers, none of whom displayed any signs of seasickness while cruising around over the briny deep which was admittedly briny but not so deep. One or two adventurous souls preferred to spend the day out in deeper water, and whiled away the hours at deep sea fishing. No report was submitted as to the results of the day's effort.





INTERFRATERNITY DANCE

Moonlight, music, beautiful girls, invariably transform the engineer into a highly social animal, but never was the change more complete than on the occasion of the 1928 Interfraternity Ball, held at the Huntington Hotel on the evening of May fifth. More than two hundred active members and alumni of the five Tech social fraternities were present at this exclusive and wonderful affair.

It would have been impossible to make a more fortunate choice of location than the Huntington Hotel. The floor was excellent, the orchestra skilled, the moon at its best, the garden in bloom. Bud vases for the ladies and card cases for the men were carried home to serve as remembrances of this memorable evening.

TRACK LUNCHEON

The awarding of twenty track letters was the most momentous feature of the Annual Track Luncheon, held on May 4 in the Dugout. The hard work of the track season being over, sore limbs banned for the future six months, and forever for the Seniors, the occasion was therefore the more enjoyable. As seniors are allowed to purchase the standard Tech blanket, advantage of the opportunity of acquiring a blanket was taken by several of the men, and of course each senior told how four years of Track developed him from the punyness of his "Frosh" days, to the superb strength which he now possesses. The frosh, too, received their numerals, with admonition that this was but the start of an athletic career, and that real trackmen must continue to work till the last day of their senior year.

Doug Perry, the new track captain, and Larry Lynn, the retiring captain, added to the seriousness and importance of the banquet with their words of wisdom. And then, when this was over, the Luncheon was given that final touch, so necessary for the success of any Tech athletic meeting, a word from "Fox" Stanton. We must not say a speech, for Coach Stanton never gives speeches; what he says cannot be contained in a mere oration, but must be said as man to man. And so the Track Team, with this message to spur them on, took with them the burning resolve to fight to the last millimeter.

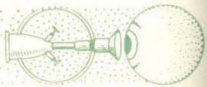
JUNIOR-SENIOR PROM

The sophisticated juniors and the proud and happy recently graduated seniors combined their resources and energy in staging the annual Prom at the Friday Morning Club on Saturday evening, June 9. The stress and nervous haste of the final examination period over, and a most successful commencement just observed, the members of the two classes were doubly light-hearted and free; the Prom was again welcomed by all as the grand finale to the college year. For the first time in the history of Tech, the Prom was a strictly exclusive affair; the two under classes were conspicuous by their absence. It was intended by the upper classes that a new tradition should be thus established, and that the most magnificent dance of the year should henceforth be recognized as belonging exclusively to the juniors and seniors. The added dignity and splendor of this particular experiment clearly indicated that the decision was justified. The event will long be remembered by the couples who attended as the wonderful crowning event of a wonderful year.



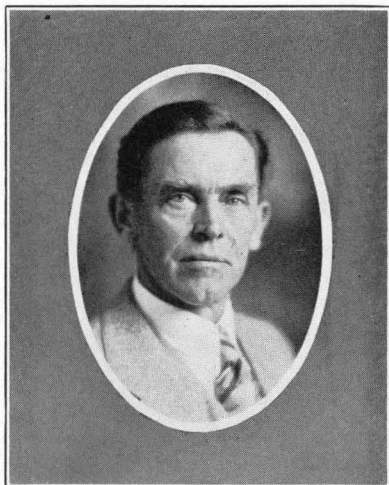
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ATHLETICS



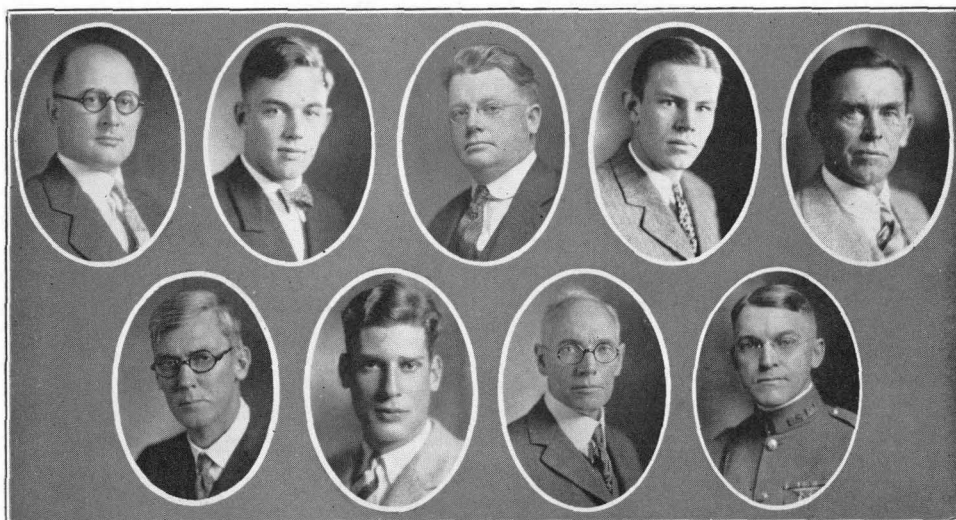
W. L. STANTON

Sometimes we win, and sometimes we lose; athletic stars rise and are forgotten; brilliant plays, exciting finishes are forgotten; but above and behind them all stands Coach "Fox" Stanton, who will never be forgotten. Coach Stanton is head of the Physical Education department of the Institute; he should also be a member of the psychology department, for his words "mind over matter" are echoing always in the hearts of Tech men who have worked under his direction. A prominent member of the Athletic Council once said that some of the most valuable training courses offered at the Institute are those under the direction of Coach Stanton.

A large part of Coach Stanton's success as head coach at Tech may be attributed to his extraordinary ability to create athletes and develop them entirely in his own way. A great many of the Engineer athletes have come to Tech without the slightest degree of experience in athletic competition. Coach Stanton has "found" them and developed them into outstanding competitive performers.

The Coach was faced last fall with a deplorable lack of experienced candidates from which to develop a football team worthy of the name. All Tech men witnessed the accomplishments of the clean-cut, hard-fighting team which he sent onto the field. The track season began in the same manner, but Tech had a potently dangerous team by midseason. Tech teams are always dangerous; they are always feared by conference rivals, and are always expected to "upset the dope." It is Coach Stanton who builds the driving spirit which characterizes these Tech teams. This fighting spirit which he inspires in the individual athletes will be invaluable to them in after life. The helpful spirit with which he trains athletes will make a lasting impression on their lives.

ATHLETIC COUNCIL



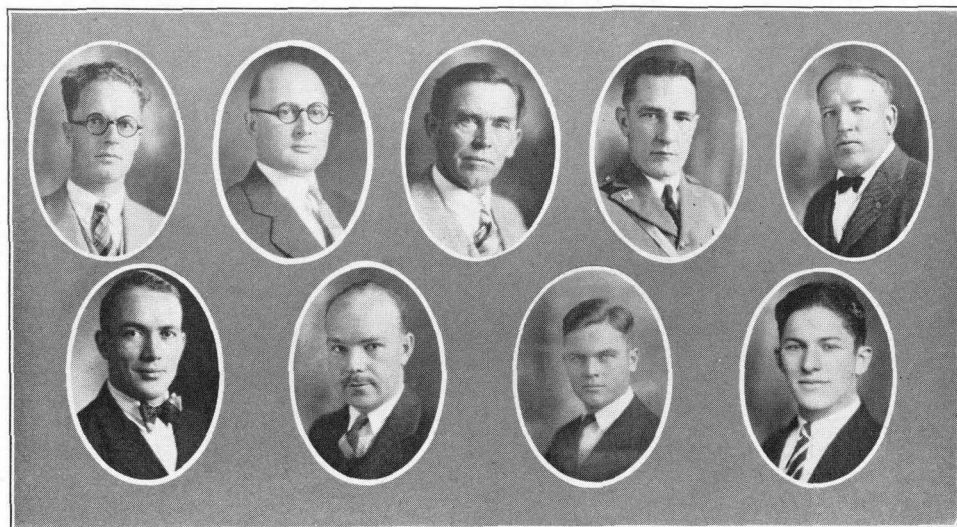
Musselman Folsom Sorensen Robinson Stanton
 Hinrichs Joujon-Roche Clapp Adams

Presiding over the athletic affairs at Tech is the Athletic Council, having ten members, six of whom are representatives of the faculty, and the remainder are from the student body. The faculty members of the Council are Professor Sorensen, who is chairman of the group, Colonel Adams, Graduate Manager Musselman, Coach Stanton, Dean Hinrichs, and Professor Clapp. The student body is represented by the student body president, the athletic manager of the current major sport, and one outstanding athlete chosen by the president. To this body belongs the credit for the far reaching and vigorous athletic policy of the college.

One function of the Council is to have one of its members present at all Southern California Conference meetings. All athletic questions and policies of the conference are taken up at these meetings, including the important task of arranging schedules for all the sports engaged in by conference members.

The Athletic Council, working with the coaching staff, urges every man to take part in either intra-mural or inter-collegiate competition. Athletics at the Institute are given hearty support by the faculty because of the interesting fact that the scholarship record of the competing athletes is usually higher than that of the student body as a whole. The relative importance of athletics here at Tech shows how successful has been this policy of the Council, and the type of competition resulting from the policy justifies its continuation. The function of the Physical Education department has been extended to the point where it increases the physical efficiency of every man at Tech. The benefits derived from such an extensive, yet inexpensive, physical education program may be seen in the noticeable improvement in the general physical condition of the student body. May the Athletic Council ever hold to its policy of improving the physical well being of all, instead of just a few students, and of sponsoring "sport for the sake of sport."

COACHING STAFF



MacLaren
Duval

Musselman
Richardson

Stanton
Stanton, Jr.

Claterbos

Griffith
Berman

Varsity football and track are under the direction of Coach "Fox" Stanton. Coach Stanton's reputation goes beyond the southern conference; for many years he has given his time to physical development of men. His teams are the result of his peculiar ability to build men into athletes. He does not confine his attention to a small group of varsity men, but seeks to encourage the entire student body into athletics.

Coach Musselman ably divides his time between a multiplicity of duties connected with the Tech athletic department. As varsity baseball coach, he has gained a reputation for developing effective teams. In addition to handling the duties of graduate manager, he prepares men for varsity football and basketball work through his positions as Scrub coach, and freshman basketball coach.

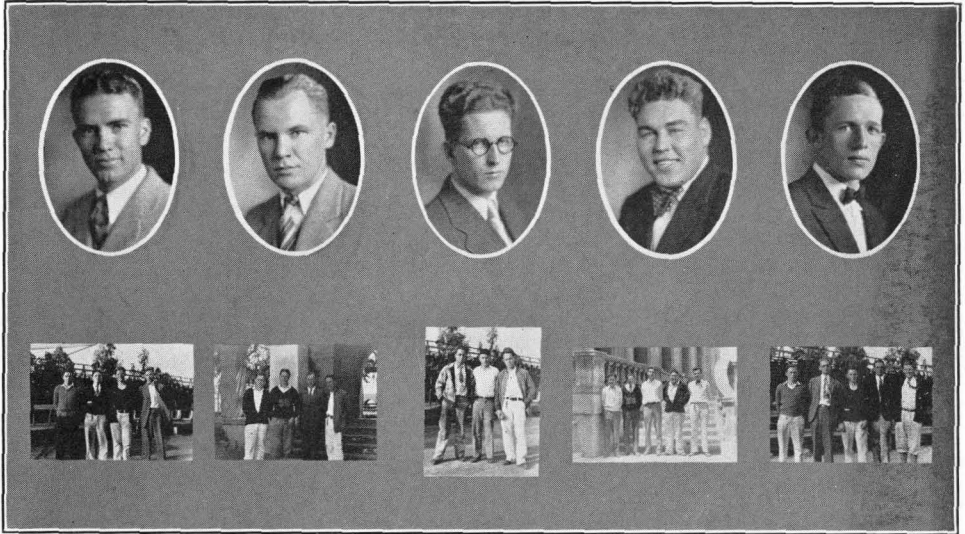
Lieutenant Claterbos was assigned to the Institute Military Department three years ago. Since that time he has been actively connected with the athletic department. Himself an athlete, he has been greatly interested in Tech athletics. He coaches the line in football, and is varsity basketball mentor. He has initiated a new type of play in this latter sport, and his efforts have earned for him both the respect and admiration of the student body.

In his undergraduate days, Layton Stanton gained a reputation as an outstanding athlete. Since graduation, he has directed his efforts no less effectively as freshman football, track, and baseball coach. By his efforts, next year's varsity candidates will include a good number of this year's freshman class.

The Tech swimming team is under the direction of Coach MacLaren, a graduate of Princeton, now a research student at Tech. He is ambitious for aquatic victories, but no less ambitious for the physical development of the entire student body. Boxing and wrestling are handled by Coaches Evjen, Griffith, and Duval. The fact that the number of students enrolling for this type of endeavor increases yearly is evidence of the value of the department.

816T

MANAGERIAL STAFF



Sperling

Nestle

Burke

Lewis

Kingman

The present high standard of efficiency maintained in all the departments of Tech athletics is in large part a result of the existing practical system of training undergraduate managers. Since its inauguration three years ago, the present managerial system has more than justified its existence. Competition for the various positions has become very keen, as is shown by the increasing number of applicants for the managerial offices, and as a result of the three year elimination round the head manager of each sport is always a man of experience and ability.

Under the present system, the applications of all sophomore aspirants to the managerial positions are carefully considered and three men are chosen from the group, these men acting for the current year in the capacity of sophomore managers. In the junior year the number is cut to two, while the sophomore positions are filled once more from the following class. Further elimination takes place in the third year, when the most deserving of the two former junior managers receives the appointment to the senior managership. In addition to the introduction of the competitive system in the realm of major sports, the minor sport managers have been centralized under the supervision of one senior minor sport manager. This plan has proved fully as successful as the plan adopted for the major sports, and has done much toward the coordination of minor sports at the Institute.

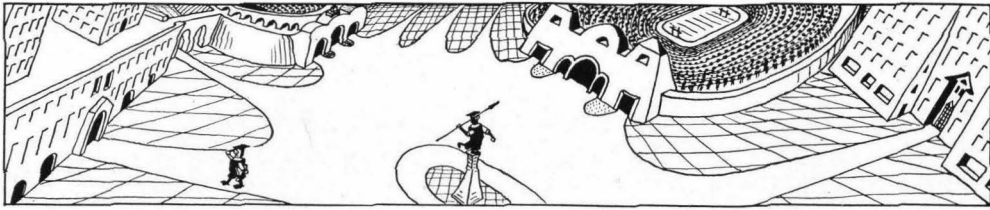
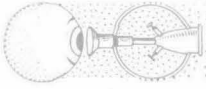
FOOTBALL: Sperling, Manager; Weismann, Lynn, Whitman, Hacker, Uecke, assistants; Ingham, freshman.

BASKETBALL: Nestle, Manager; Cline, Hatch, Wern, Herd, assistants; T. Folsom, freshman.

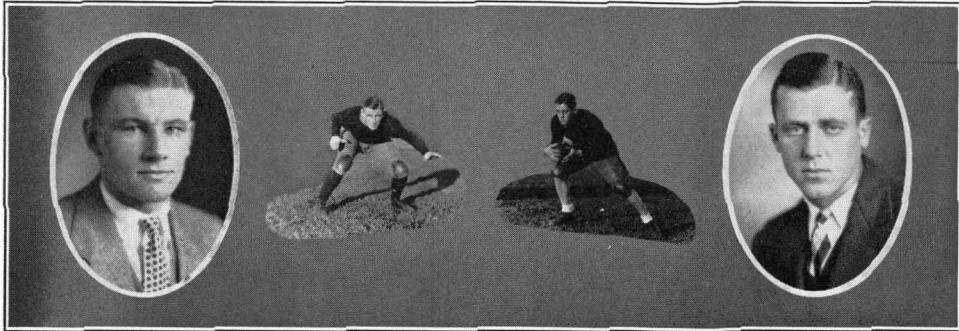
TRACK: Lewis, Manager; Ganssle, F. Crawford, Reynard, assistants; Grafman, frosh.

BASEBALL: Burke, Manager; Hatch, Atwater, F. Crawford, assistants; Lehman, frosh.

MINOR SPORT: D. Kingman, Manager; Terry, Lynn, F. Scott, K. Kingman.



FOOTBALL



MOHR

MUFF

THE LEADERS

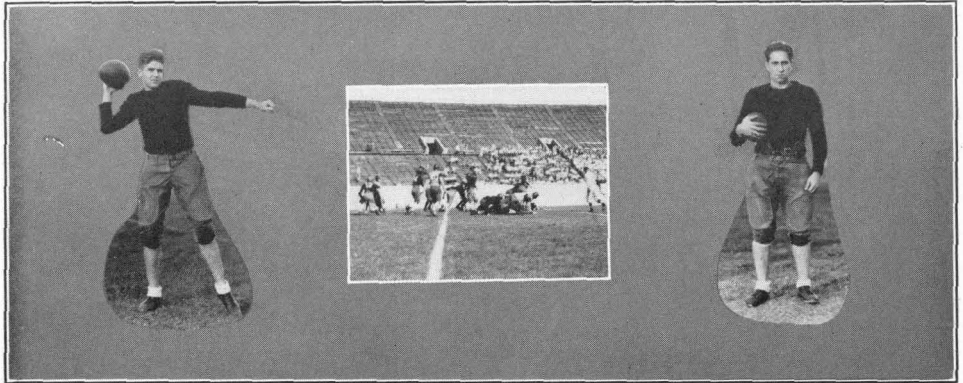
Captain Bill Mohr led Tech's football team through a tough season this year, to a close that was really successful in the light of Coach Stanton's definition of true football. In his position at tackle, Bill has been an integral part of all Tech fighting machines for the past three years. Bill put forth the best he had, whether on defense or offense. Dependable and consistent, he was a fighting captain. He has played his last for Tech, and he will be mightily missed.

Elmer Muff has been chosen as captain of next year's team, and a better man could not have been chosen. Elmer wears a two stripe sweater, and has gained the respect and confidence of all who play with him as teammates or who cheer for him from the bleachers. He was a star this year and did more than any man could be expected to do. His open field running was remarkable and his tackling was absolute. What few men managed to get by the line this year were sure to be stopped by him, our safety man. He is a real sportsman, a clear-thinking field general, and impossible to stop. We wish him success next season.

Tech had a team this year to be proud of. Most of the men are now wearing three stripe sweaters and this year closed out their term of service on our team. They played hard all season, were noted for their sportsmanship and received victory and defeat the same. There are teams in the Southern California conference who beat them in point of scores, but there are none who surpassed them in energy and enthusiasm. Coach Stanton has been at Tech for seven years for the purpose of producing football players who are willing to play for the sake of playing, and he has never been more successful in his object than this year.



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OLSON

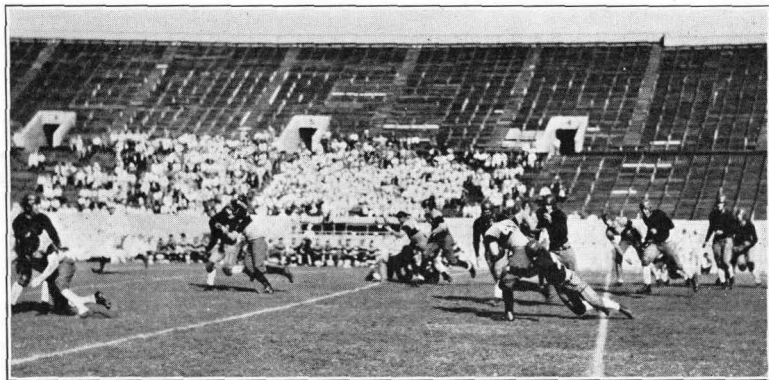
CRAVITZ

POMONA 19—TECH 6

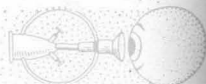
Pomona visited Cal-Tech at the Rose Bowl on October eighth, and emerged victor to the tune of 19-6. It was a very pleasant day for the Sagehens in spite of the efforts of the Engineers, but victory was no easy task.

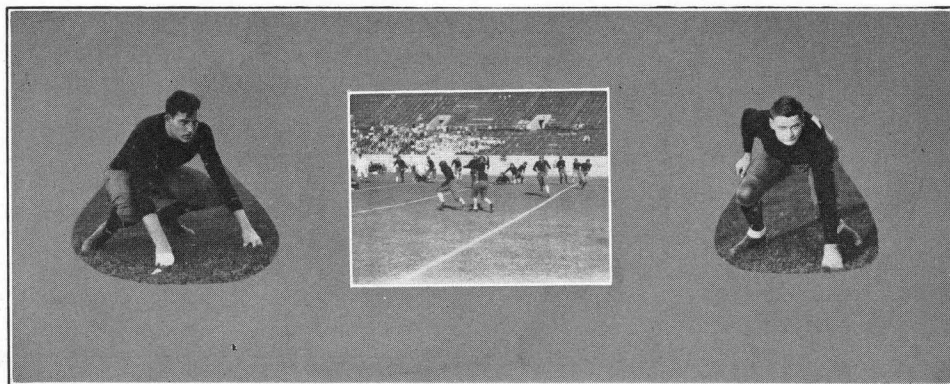
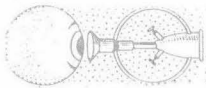
The visitors brought a beautiful backfield with them that outclassed the Engineers' in every department except Muff's ball packing. By determined fight and by taking advantage of every break Tech was able to keep on even terms with the Sagehens during the first half. The secret of Tech's defeat lay in not having a punter equal to Pomona's man. Pomona discovered this weakness and used it to advantage early in the second half. They were unable to gain much by driving, but by punting consistently they could make fifteen to twenty yards on an exchange.

Both teams were in the mood for real football, and both teams held for downs when within easy scoring distance. Tech lost, but not because she did not fight. Hartman of Pomona was invaluable to the winners, but Muff was no less valuable to Tech.



Fight, Men, for California Tech!





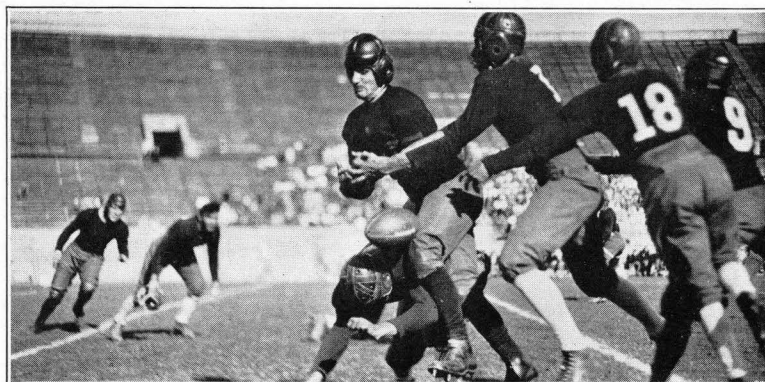
DALY

KEELEY

REDLANDS 0 -TECH 46

Cal-Tech started the conference season right this year by downing the Redlands Bulldogs by a score of 46-0 in the first conference game of the year. There was no overconfidence, and the team went into the game determined to prevent the visitors from scoring. The end of the half showed the Beavers leading by twenty-six points and the Coach sent in his second string to carry on from there.

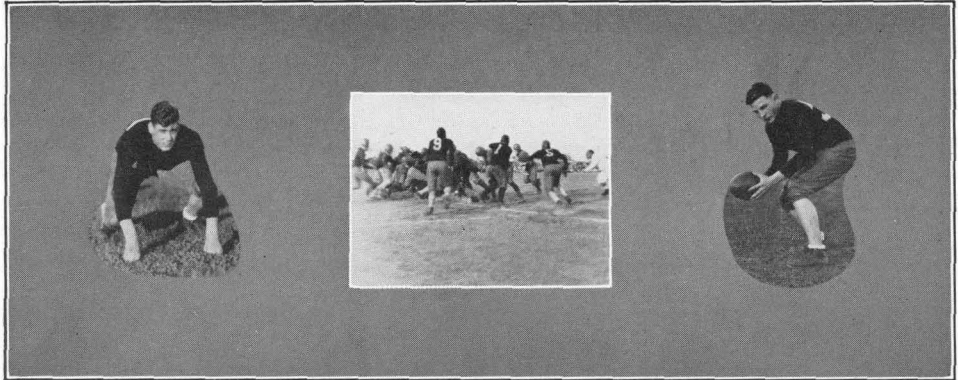
The Redlands team put up a good fight, but the Engineers were too much for them. The Tech victory of a year ago broke the spell that Redlands had formerly cast over the Cal-Tech team, and this year the score was even more decisive. The backfield spent the afternoon making brilliant open field gains and the line busied itself with opening up holes to make gains possible. Scoring was not limited to the backs, for two of the seven touchdowns were made by linemen who moved fast enough to intercept passes intended for the enemy. Team cooperation was good, spirit was good and scoring was better.



Fight, fight, and win!

1928





JOUJON-ROCHE

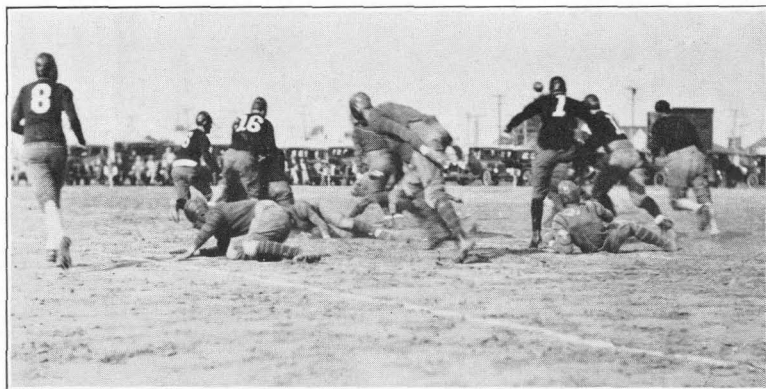
KINGMAN

SAN DIEGO STATE 13—TECH 17

This year the student body traveled to San Diego in every manner possible to watch the team down the Aztecs. The game took place on October fifteenth; though the Beavers were victorious, 17 to 13, it was not until the final whistle that they were at all sure of their victory. The excitement was intense throughout the entire game, for it was nip-and-tuck at all times.

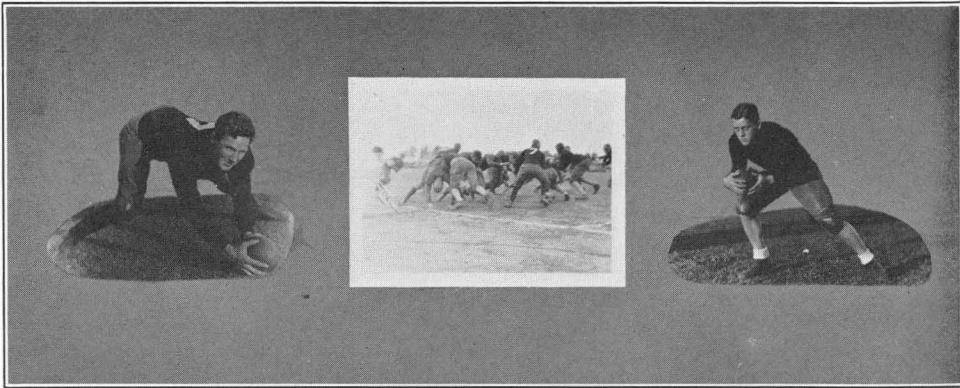
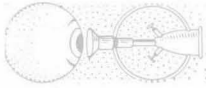
Both teams made their first touchdowns on long drives down the field. The Beavers' second touchdown came as the result of a recovered San Diego fumble, which showed that the team was awake and taking advantage of every opportunity. The line was in splendid shape, stopping the Aztec drives time and again. It was Tech's big day both on offense and defense.

San Diego put a fine team into the game, and the fact that they lost throws a great deal of credit upon the Engineer squad. It was a true Tech line that held the Southerners for four downs under the shadow of their goal.



Win, men, for California Tech!





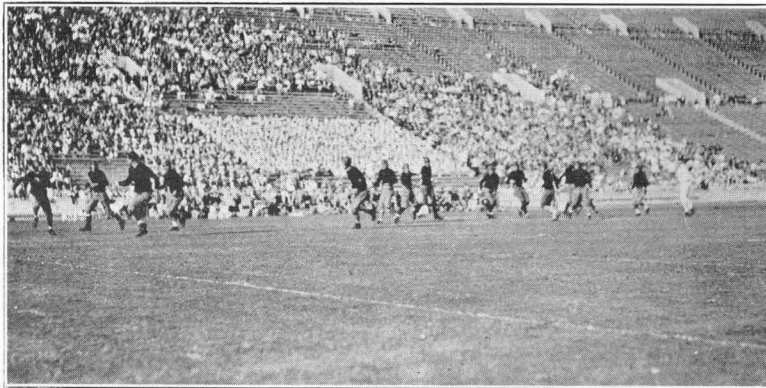
DURFEE

MUFF

OXY 28—TECH 7

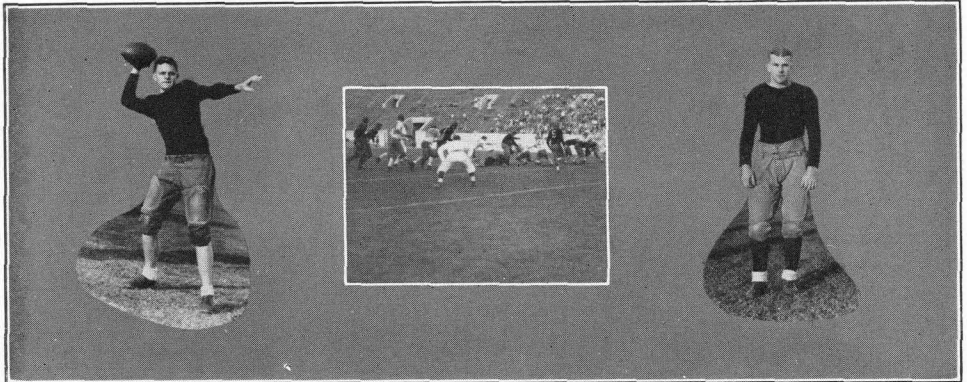
Oxy turned the tables this year and defeated Tech 28-7 on Occidental's field. The Tiger did not let history repeat itself, for Tech's first drive was stopped successfully. Nor did Oxy put in the second string men at the first of the game as they did last year. The game was fairly even and not one-sided as the score might indicate.

The first quarter was scoreless with neither team having any decided advantage, but during the second, Oxy managed to push across the goal line twice. The Beavers tightened up during the third quarter and again no score was made. Oxy scored again at the beginning of the fourth and then Tech woke up and went through to a touchdown. Muff caught a long pass from Cravitz and carried it to the one yard line—a beautiful play. Oxy made the final score just before the end of the game. The team fought hard and steadily but were unable to stop a triumphant Tiger eleven.



Rush the foe again!





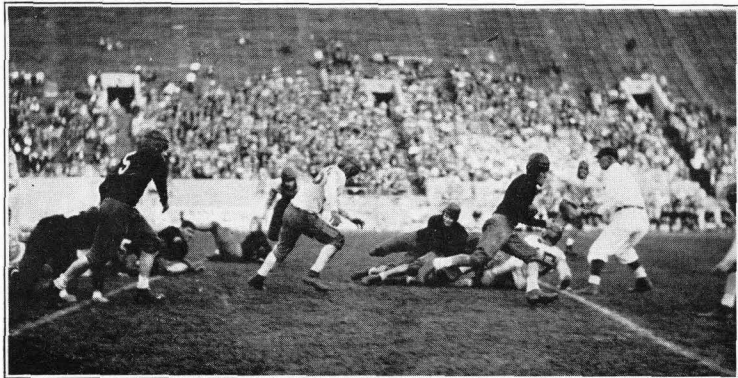
REED

CHILBERG

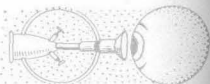
U. C. L. A. 13—TECH 0

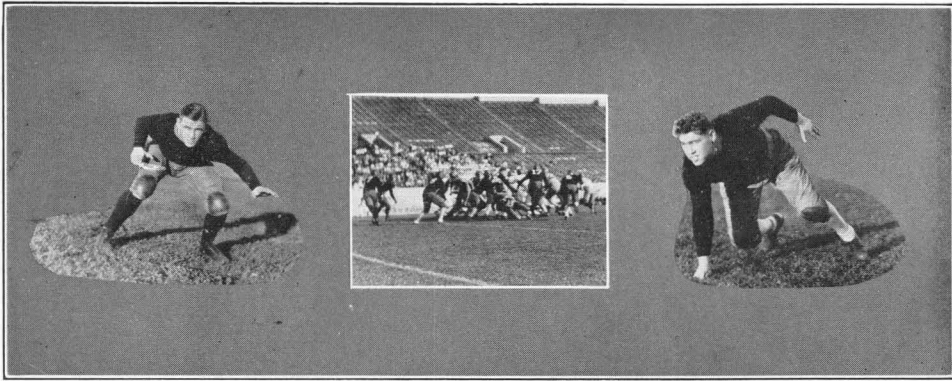
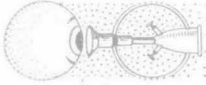
For the first time in conference football competition, U. C. L. A. defeated Tech! The Rose Bowl was the scene, and the battle that took place there was a credit to both teams. The 13-0 score does not tell the whole story. The rooters for both sides were nervous all the while, for any trick of fate might throw the game the other way, and victory was never settled until the end of the game.

The game was a series of drives with first one team moving down the field and then the other. The Bruins, however, managed to carry two of their drives to completion, one starting at their own nine-yard line, and going clear down the field. Shields and Muff were directly responsible for most of the yards for Tech, but that does not dim the glory of the other men for it took team-work to push the Bruins back. The Bruin won, but the Beaver upheld his honor by playing his best.



Smash the line of our old enemy.





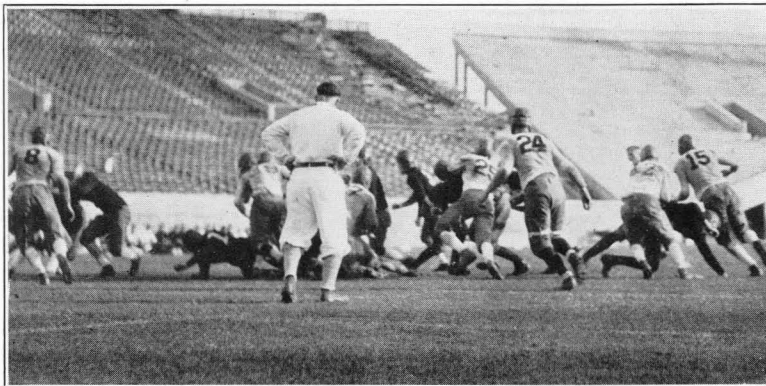
MOHR

LEWIS

WHITTIER 6—TECH 6

In the final game of the season, the Quakers came over to the Bowl to repeat last year's performance and nearly succeeded. The game finally ended 6-6 after much discussion at the end of the game, for Whittier scored just after the battle ended.

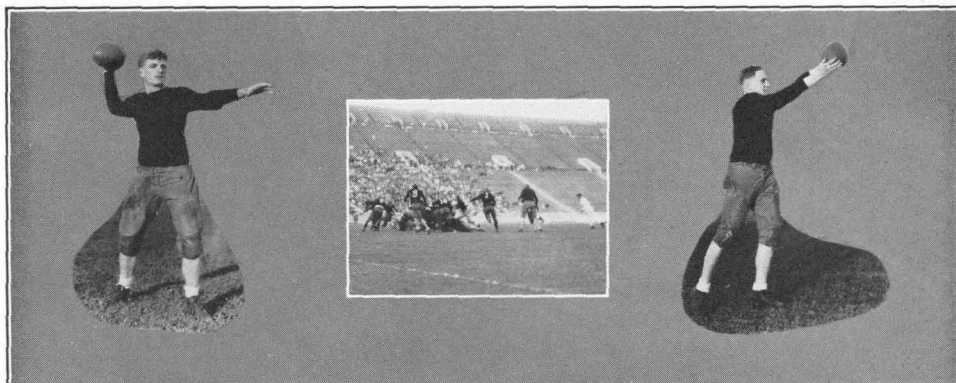
During the first half neither team scored, but Tech was outplaying its rival. The Engineers started down the field in the second half and pushed across for their one score. Then Whittier drove down the field for a touchdown. After the kick-off Whittier started down the field again but the Beavers held long enough to keep the score even. It was in this game that Fox Stanton's famous lateral pass was demonstrated to better advantage than in any other. Often a pass from Cravitz to Muff resulted in substantial gains. Reed stood out as a star with Muff, for he made several long runs. This final game saw more spectacular playing than any other of this year.



Bring home the victory.



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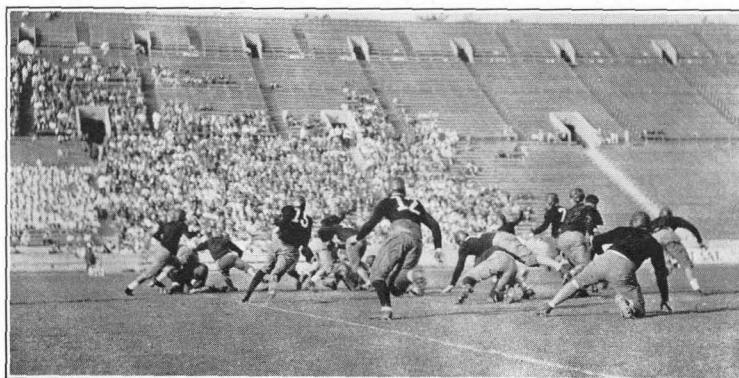
SHIELDS

LOMBARD

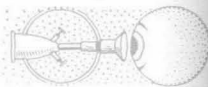
U. S. C. 51—TECH 0

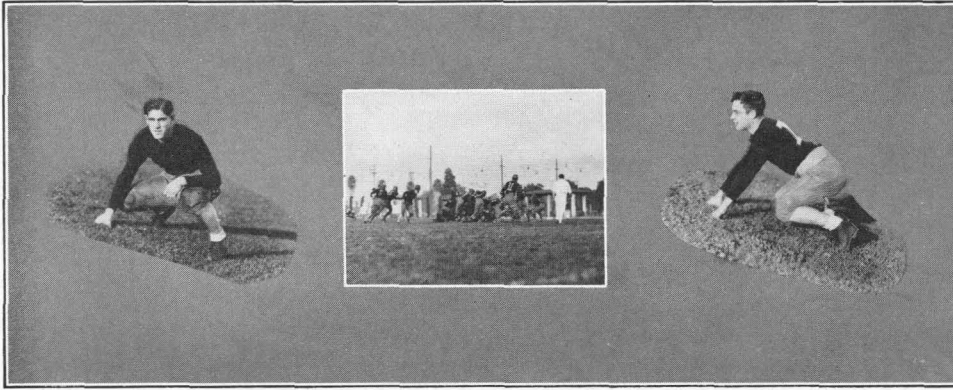
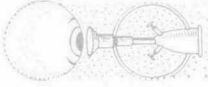
On October twenty-second Tech played the Trojans in a practice game at the Coliseum. The Beavers came out on the short end of the score, 51-0, but Tech may be proud of them for they played hard and well.

During the first quarter Southern California was unable to score against Tech's first string, and this speaks well for its playing. As the following week was scheduled for a hard game against Oxy, substitutes were sent in, and then the Trojans started running around end to pile up the score. In the fourth quarter the Beavers learned to stop the run with some effectiveness and for the first time they worked down near the center of the field. It was there that the line showed up, for it required alertness from every man to hold the heavier S. C. line while the backfield worked to gain yardage. The team was at a decided disadvantage for it was outweighed nearly twenty pounds to the man, but this could not kill its fighting spirit.



Fight, men, for California Tech!





EXLEY

FOLSOM

CALIFORNIA CHRISTIAN 29—TECH 7

On November fifth, California Christian College journeyed to Tournament Park and defeated the Beavers by a score of 29-7. Coach Stanton had taken his first string men to Los Angeles to watch the U. C. L. A. team, leaving the second string and scrub men to defend our name at home.

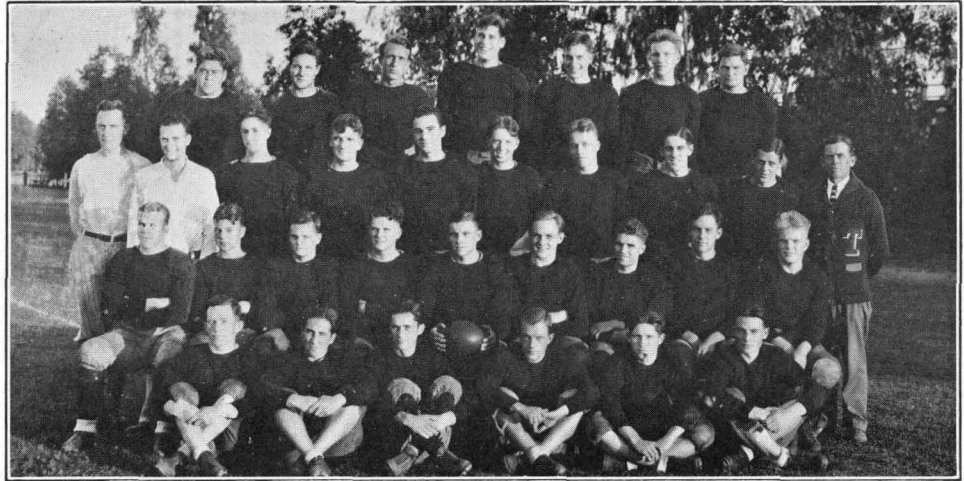
The C. C. C. Panthers started with a strong drive, and scored three touchdowns and a place kick in the first half. The second string Beavers were not running in good form and the fast start of the visitors was too much for them. Just before the end of the half, the scrubs were sent in to have a taste of real football and to relieve the second string. They made a good showing, even better than those they replaced.

At the beginning of the second half it was a fighting second string that went back in, and some nice field running, backed up with real line work, produced the lone Engineer score. The work of the last half indicated some real strength to be drawn upon next season.



For noble C. I. T.





VARSITY

Capt. Mohr
 Capt.-Elect Muff
 Chilberg
 Cravitz
 Daly
 Durfee
 Exley
 Folsom
 Joujon-Roche
 Keeley
 K. Kingman
 Lewis
 Lombard
 Olson
 Reed
 Shields

SECOND VARSITY

Alderman
 Ayres
 Berry
 Boyle
 Dodge
 Herd
 Hisserich
 D. Kingman
 Kuhn
 Lee
 Liedholm
 Stroud
 Wern

SCRUBS

Capt. Thatcher
 Atwater
 Austin
 I. Berman
 J. Berman
 Cline
 D'Arcy
 Effmann
 Fenwick
 Hesse
 Janssen
 Levine

Lyter
 Mason
 Miles
 Minkler
 Newcomb
 Patterson
 Phillips
 Ramey
 Riggs
 Sass
 Shaffer
 Wilmot



THE WHEATON TROPHY



ELMER MUFF

At the close of the 1924 football season, Mr. Wheaton, of the T. V. Allen Company in Los Angeles, and formerly of Yale, presented the California Tech student body with the beautiful silver trophy which has since been known as the Wheaton Trophy. Being an ardent follower and supporter of collegiate sport, and also being a close friend of Tech, Mr. Wheaton sought to heighten interest in the greatest of collegiate sports by furnishing added incentive to athletic achievement in the form of this mark of recognized superiority. Each year a man is chosen from among the Tech football men who is considered by his teammates as a leader in sportsmanship and moral influence upon the team as a whole, and who is also recognized by the faculty as a high ranking student.

The existence of this trophy and the ideals for which it stands have done much toward improving the all-important mental attitude of the players. The keen competition which has been fostered by the presence of this coveted trophy as a goal has undoubtedly placed athletics at Tech on a higher plane of clean sportsmanship.

The winner of this highest of awards for football men for the year just passed, is Elmer Muff. Elmer has been one of the outstanding backfield men in the Southern California Conference for two years. His steady, consistently good playing has gained for him an enviable reputation among men of other colleges, and his value as a leader and a gentleman on the playing field is evidenced by the fact that he has been elected to captain the 1928 squad.

Elmer Muff is the fourth man to have his name inscribed on the trophy, and the first to receive the honor while a two stripe man. The award of the Wheaton Trophy has already become one of the most important events in the athletic life at Tech. The inspiration to higher standards which the trophy furnishes has certainly fulfilled the highest expectations of the donor. Men of Tech may well be grateful to Mr. Wheaton for his lively interest in Tech athletics.



826T

FRESHMAN FOOTBALL

The class of '31 turned out for football in unusual numbers this year, and built up a team particularly worthy of mention. More than forty men completed the season, scoring a percentage of games won which was higher than the usual result of frosh seasons. As usual, there were no former high school stars on the squad, and yet Coach Layton Stanton, in his first year as freshman coach, developed a very creditable team.

The first contest, which was with Pomona, was a poor indication of the real power of the Tech squad, as the early date prevented proper training. The eight imperfectly mastered plays available to the Tech men were insufficient, and the Pomona men had an easy time.

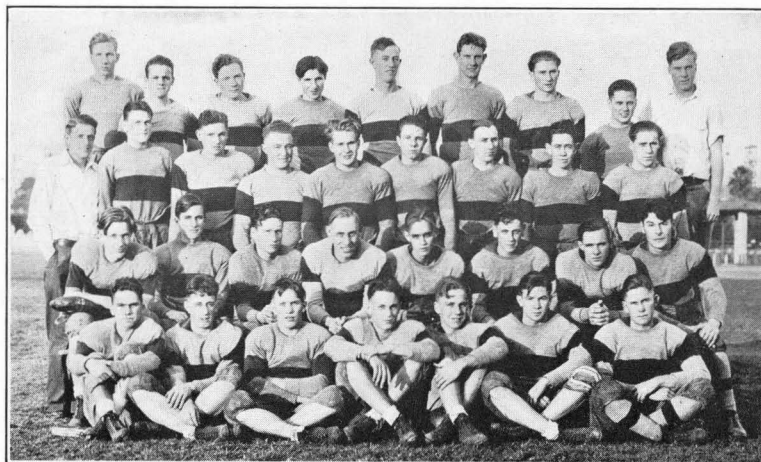
A great improvement was manifested on the following Saturday when the strong Oxnard High team succumbed to the Beaver Frosh by a 7-0 score. That the Oxnard team was no mean opponent is evidenced by the fact that these boys later won the Ventura County championship.

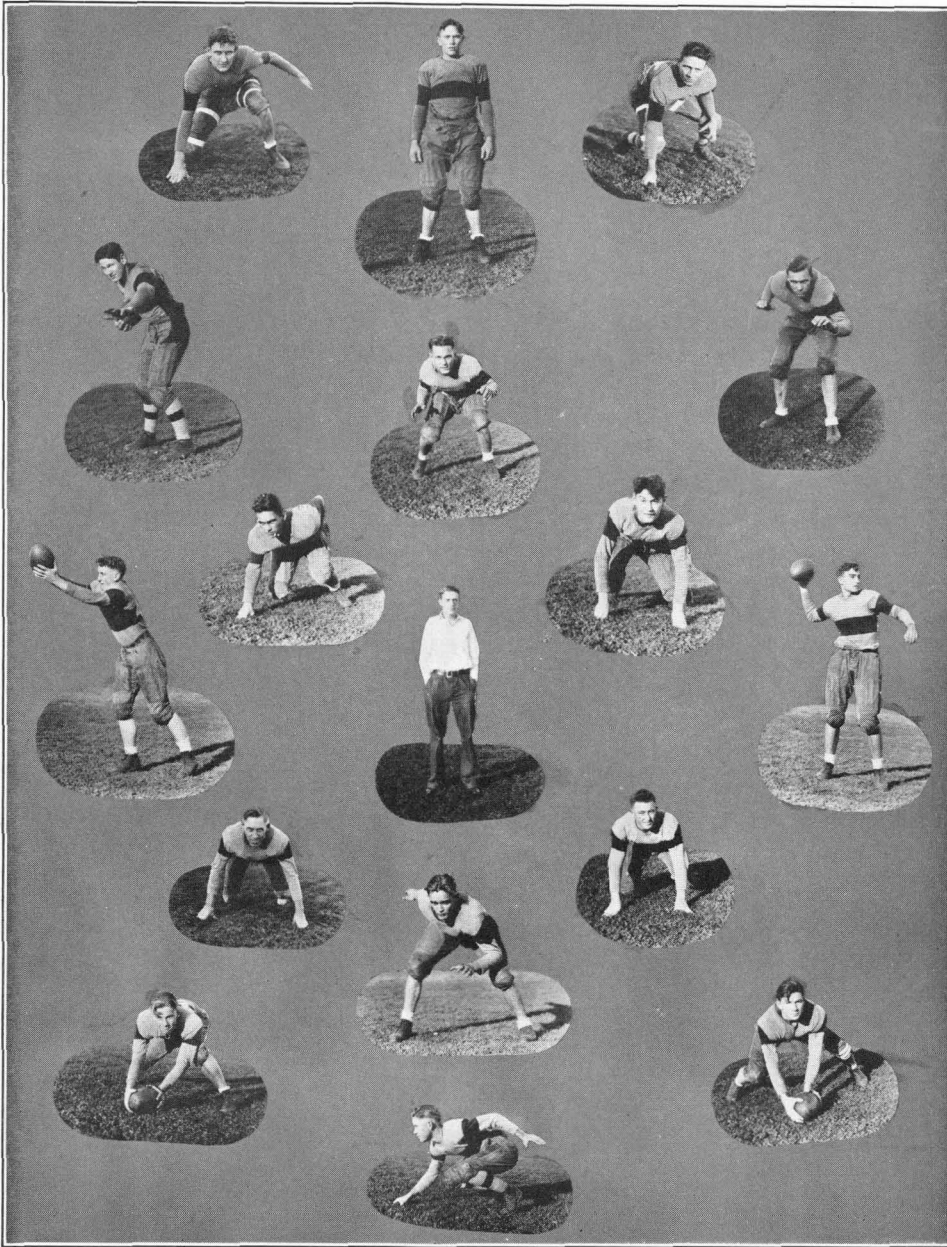
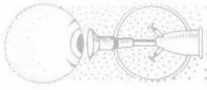
The next two games, played at Tournament Park, resulted in a defeat at the hands of the San Diego Army and Navy Academy and a victory over the fast Santa Barbara High team.

On Nov. 5, the young Beavers had a glorious day at the expense of the La Verne freshmen. A strong comeback in the second half proved the deciding factor; hard driving and pure fight turned the tide in Tech's favor.

The season was brought to a close by a defeat at the hands of the U. C. L. A. first year men, who proved far superior to the Engineers in all departments of the game.

The following men earned numerals for their work on the 1928 freshman squad: Bennett, Brooks, Crawford, Dickey, Eastman, Finney, Frick, Gardner, Labory, Lehman, McGarry, Morris, Murdock, O'Melveny, Prentice, Young, Butler, Matison, Newby, Folsom (captain), and Ingham (manager).





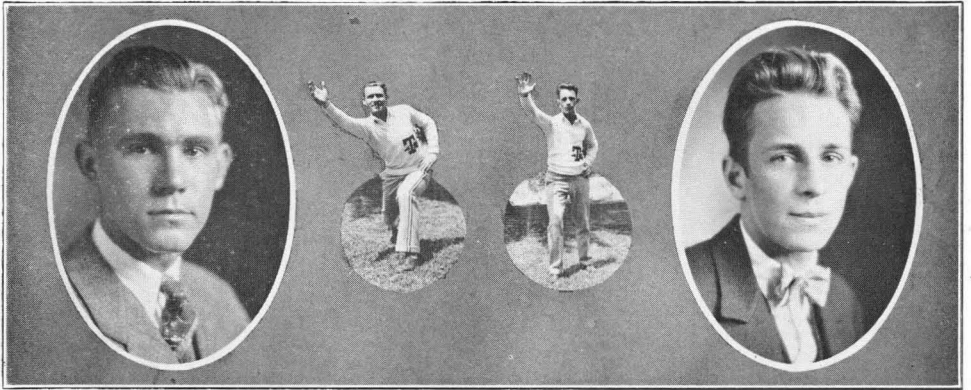
Labory
 Dickey
 Frick
 Crawford
 Young
 Newby

Bennett
 Lehman
 Ingman
 Folsom
 Prentice

McGarry
 Finney
 Morris
 Brooks
 Murdock
 Eastman



8267



WHEELER

ZIPSER

THE YELL LEADERS

In conducting a successful athletic season it is a matter of record that the rooting stands play a highly important part.

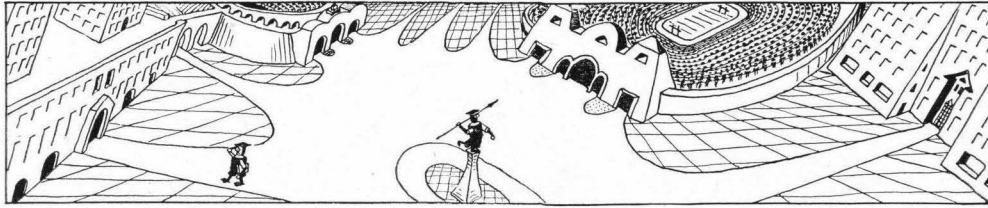
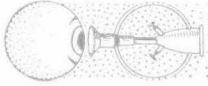
The part played by the yell leaders in conducting a successful athletic season is more than important. We all realize that a team is greatly aided by the efforts of an enthusiastic and coordinated rooting section. There are times when a certain yell is particularly appropriate; moments when the time for a yell is going to be limited; times when the success of a play depends upon the stands being momentarily quiet. It is insufficient, therefore, that a rooting section merely be on hand. It must be a coordinated unit, and this coordination must have as its source a skilled group of yell leaders.

This past year, Fred Wheeler and Sidney Zipser have been the yell leaders. Elected last year on the basis of demonstrated skill, they have maintained and improved that skill throughout the year. Their leadership also entered into their choice by the student body. That property has been evident throughout their term of office. They started the year with the finest type of enthusiasm, and they had enough of that follow-up spirit to finish the year in the same fashion.

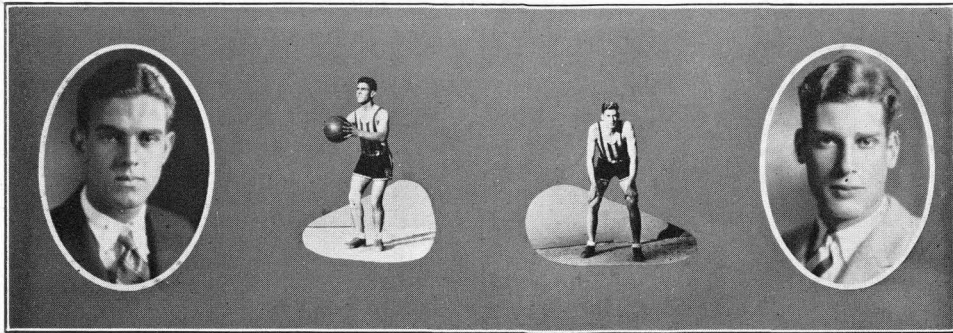
In addition to the old tried and tested yells of our forefathers, Fred and Sid produced and worked up some good new ones. To go further, they very successfully made use of rooting cards at some of the more important games. It took no little work to get the grandstands marked off for the card events. Again, it took no little skill to direct the rooting sections in the proper use of the cards. It is a source of satisfaction to the students and to the yell leaders that the stunts were successful, for no time was available for previous practice.

Working in conjunction with the Throopers, the yell leaders arranged for rockets, use of which was made between halves on several occasions.





BASKETBALL



CRAMER

JOUJON-ROCHE

CAPTAINS

This past year Ed Joujon-Roche, playing his third and last year of varsity basketball, made a great Captain. As a player, and leader, Ed stands head and shoulders above his fellows, both figuratively and literally speaking.

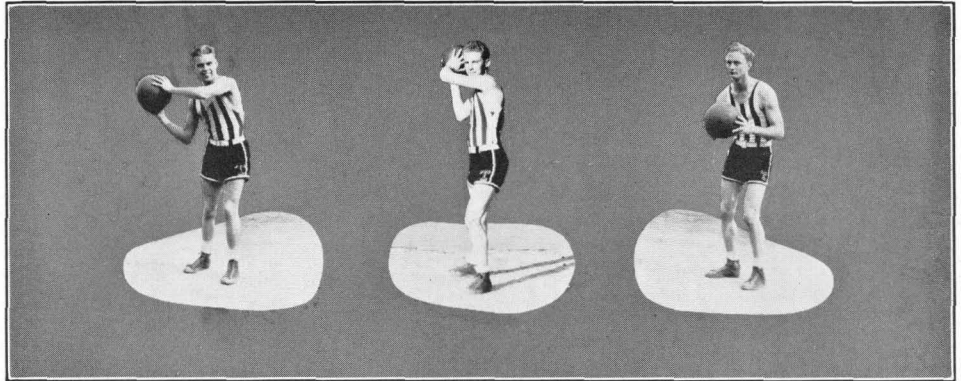
He has been varsity center for three years, and during these three years, he has worried every opponent in the conference with his peculiar property of being able to be where the ball is going, just before it gets there. On the tip-off he has been infallible; when an extra point or two was needed, he could be counted on for either a long or a short shot. At all times he was a sportsman. He holds the respect and admiration of our own and other student bodies for these qualities of ability and sportsmanship. He was a captain in every sense of the word.

When the conference season was over and the selection of the man to lead the 1929 team was to be made, it was apparent that Al Cramer was the man. No man ever served his team more diligently than Al has during the past two years; no man was ever more ambitious for a succeeding year's team. Al has been playing a great brand of basketball at the forward berth for two years, and this year won a two stripe award. He is an accurate passer, and has a fine ability for team work that makes him invaluable.

In addition to his skill as a player, Al is definitely a leader. He has a way of bringing out the best that is in his team mates. He realizes the value of sportsmanship, of team work—in short, of the good old Tech fight.

1928





DICKERMAN

SINRAM

BERNHARDI

The second season of the "new system" introduced by Coach Claterbos, found the Tech team woefully slow in starting but hard to stop when going at full speed. The Beavers dropped game after game with amazing regularity, with each successive score becoming closer to that of the enemy, until with a great burst of fight and pep the real strength of the squad was discovered. Two out of nine games were recorded as Tech victories; nine out of nine bore testimony to a fighting Tech team. The unusually strenuous season forced the men to their best. The Varsity sweaters awarded to Captain Joujon-Roche, Captain-elect Cramer, Olson, Sinram, Folckemer, Cutler, Dickerman, and Bernhardt were well earned through the hardest of work. Tech has every reason to be proud of these men who have given their best in spite of the handicap placed upon them by lack of a practice floor which might be called their own.

The fact that the basketball team seldom receives as enthusiastic support as do football teams is the result of two causes, one of which follows directly from the first. To begin with, the basketball team is hampered, as has been suggested, by the lack of a practice floor. Although the McKinley High School floor, used this past season, was a good one, it was too inaccessible to enable the men to put in enough practice. As a result, our team had to depend more upon the fight that the coach could inspire in it, rather than the efficiency brought by continual practice, to win games. A new gymnasium at Tech would doubtless enable the team to add many victories to its list.

WHITTIER 49, 42—TECH 25, 12

Tech opened the conference season this year with Whittier. The Poets emerged easy victors, 49 to 25, their experience enabling them to outclass the Tech men. Better floor work and more accurate passing by the Whittier men gave them an early lead which gradually increased. Both first and second string men were rushed into the game to help, but the Whittier men were not to be stopped. Coach Claterbos started the Tech second team, but although the boys worked hard they were unable to hold the opponents. The first team had no less trouble.

The season ended as it had begun, the Poets again administering the defeat; this time by a 42 to 12 count. The Tech squad lacked the confidence and coordination which had shone so brilliantly in the Redlands game the week previous, and no amount of the traditional Tech fight was enough to stem the tide. Spurts of speed and teamwork showed that the team had something to show, but the good spots were all too brief and scattered.

POMONA 38—TECH 25

In the second conference tilt the Pomona Sagehens downed the Beaver team by a 38 to 25 score. Although Tech played in familiar territory, self-confidence was lacking. The game was fast and furious, and at times very closely contested, but the inconsistency of the Engineer team brought defeat. A great improvement over the performance against Whittier was apparent, but the shooting was still erratic and the team work was negligible during frequent periods. Coach Claterbos tried numerous combinations but none seemed to function as a unit.

OXY 33, 35—TECH 24, 25

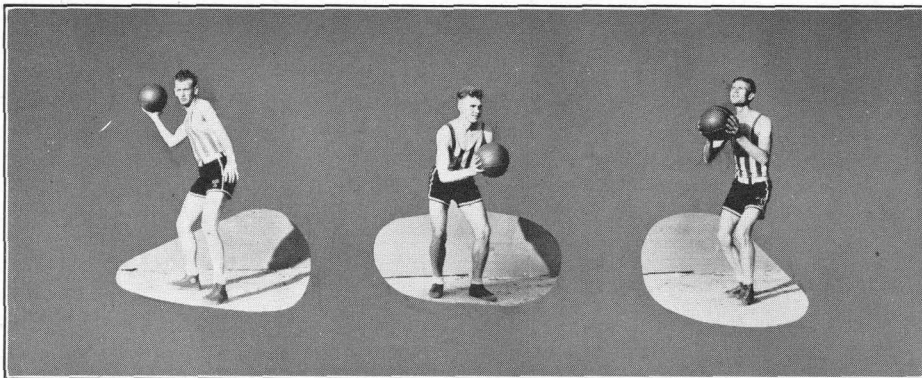
On January 8 the Beavers received their third setback at the hands of the Occidental Tigers. A decided improvement over earlier games was displayed, but the old jinx still hung over the basket and refused to let the ball drop through. Flashes of brilliance together with generally improved team co-ordination made the Oxy men extend themselves to the limit to pull out with a 33 to 24 score. The old inconsistencies were present again to prevent the Tech men from overcoming the six point lead held by Oxy at half time.

A week later, the Tigers again furnished the opposition, and had an even harder time in winning 35 to 25. The play of both teams was much better than that which they had shown in the first game. The Engineers were slightly handicapped by sickness, but put up one of the best fights of the season before succumbing. Again the score at half-time showed Oxy six points ahead.

LA VERNE 46, 37—TECH 31, 21

After outscoring and completely outplaying the LaVerne Leopards in the first half of the first game of a two game series, the Tech basketball blew up and allowed a half-time score of 25 to 15 in Tech's favor to be changed to a 46 to 31 count for LaVerne. The first half furnished plenty of thrills, the Beavers working smoothly and steadily to smother the Leopards, but over-confidence and complete neglect of defensive tactics brought ruin during the final period.

The return game began in much the same way as the first. Tech jumped to an early lead and trailed by only two points at the end of the half. After



FOLCKEMER

OLSON

CUTLER

1928



Fredendall, Johnson, Oaks, Hodder, Joujon-Roche, Bernhardt, Folchemer, Cramer, Nestle, Claterbos, Liedholm, Sinram, Dickerman, Olson, Cogen, Cutler, O'Haver

starting strongly in the second half the Tech men tired appreciably and were unable to stop LaVerne's attack. The final score was 37 to 21.

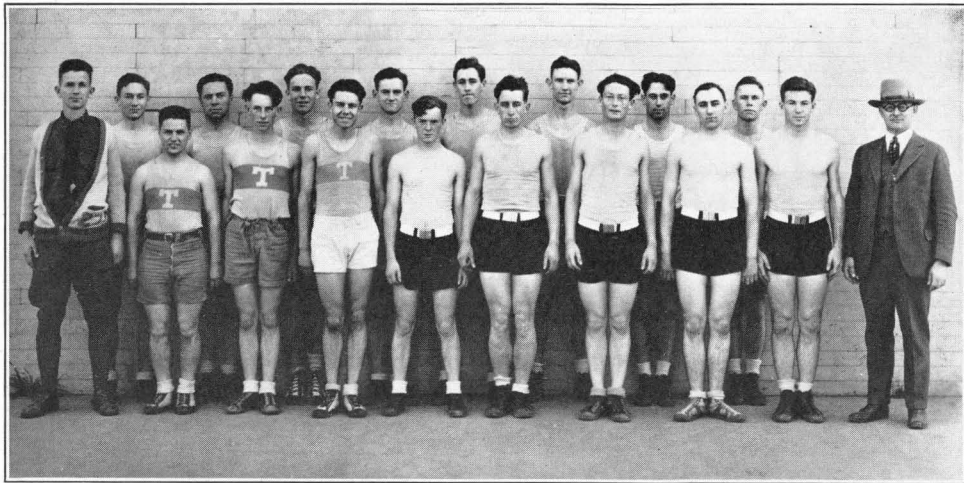
SAN DIEGO 28—TECH 42

After tasting defeat six times in a row, the Tech squad finally hit its stride and swamped the strong San Diego representatives by a 42 to 28 count. A well organized offense kept the score very even throughout the first half; the Beavers hit the basket much more regularly than ever before. At the end of the half a tie score of 15 to 15 resulted. A changed Tech team then took the floor and the forwards literally ran through for goals while the defense remained airtight.

REDLANDS 31—TECH 34

Burning for more worlds to conquer, the Engineer team met Redlands in a hectic battle on the home court. For pure excitement this game was the best of the year. Redlands managed to maintain a slim lead until the last few minutes of play, when the Beavers sank five goals in a row, to win 34 to 31. The highlight of the game was the strong defense of both teams. The final outcome was in doubt until the gun put an end to the battle, the last Tech basket dropping through thirty seconds before the final gun.

This game marked the climax of the season for Tech. A sudden slump brought disaster at the hands of Whittier in the final game.



FROSH BASKETBALL

Starting the season with about fifteen men, the Frosh basketball team developed into a fairly good outfit, with worlds of fight. The season was unsuccessful in so far as winning games is concerned, but that is not the principal object of the game as it is played at Tech. Athletics are to help the men, and along with that some very good varsity material has been developed to aid the future varsity teams. Considering the short season and lack of gymnasium for practice the playing of the frosh was quite remarkable. The improvement throughout the season showed that all of the men worked hard in spite of handicaps.

Captained in alternate games by Leland Pratt, Aubrey Horn, and Art Brooks, the Frosh finally elected Pratt to the honorary captaincy after the season had closed. The regular starting line-up was usually composed of Pratt and Horn, forwards, Brooks and Crawford, guards, and Labory, center.

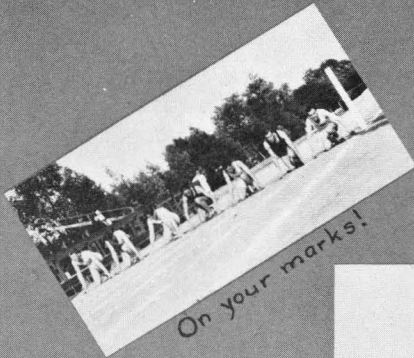
Fourteen practice games and four conference games were crowded into the eight week season and most of these were lost. However, the team later showed considerable improvement and held Glendale J. C. to a 16-11 score at the close of the season, while losing to the same team by a 44-17 score during early season. The best game was with Citrus Union J. C. and was won by the Engineer Babes with a score of 39-38.

After losing to La Verne by decisive scores in the first two conference games the frosh outfit surprised the championship Redlands team by holding them to a tie score at half time. However, the effective passing attack of the Redlands crew finally decided the issue and they won by a final score of 26-14.

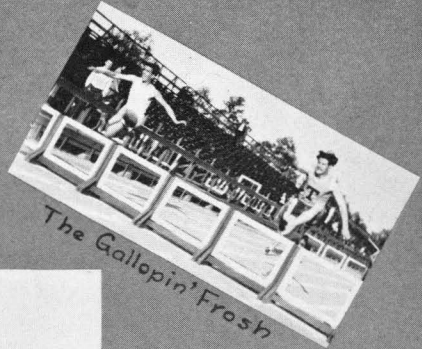
After playing superior ball throughout the game the frosh lost the final game to Whittier by a 12-11 score. The basket was too elusive for the forwards and the good guarding of Crawford and Futcher was for naught.

Eight men were awarded numerals at the basketball dinner for their hard and consistent playing. They were: Pratt, Horn, Futcher, Crawford, Prentice, Labory, Kanaster and Brooks.

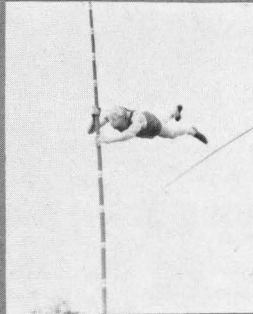




On your marks!



The Gallopin' Frosh



"Too bad!"



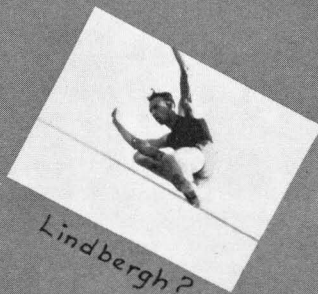
Last one?



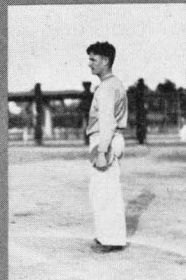
Pull!



Guess Who



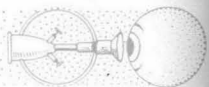
Lindbergh?

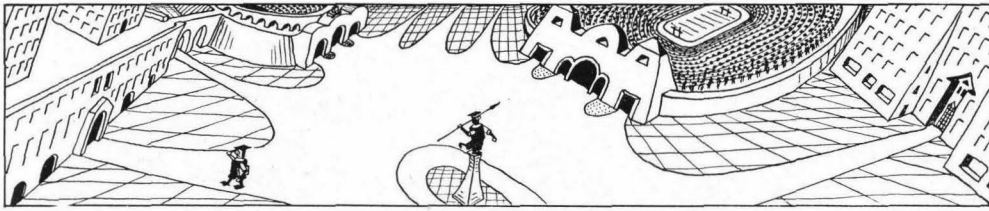
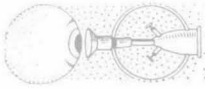


Fore!

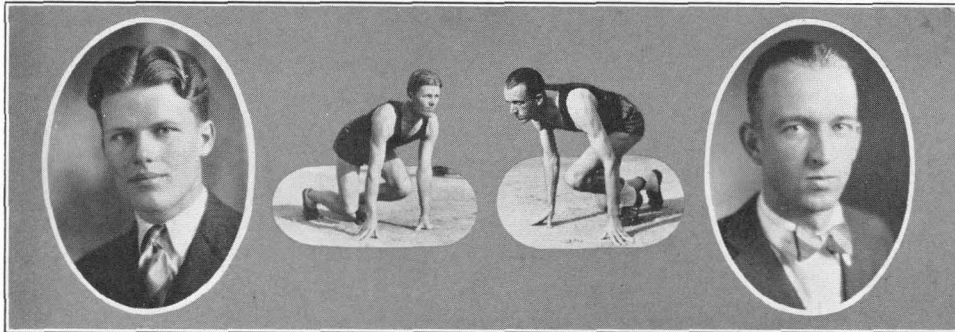


Whee-e!





TRACK



LYNN

PERRY

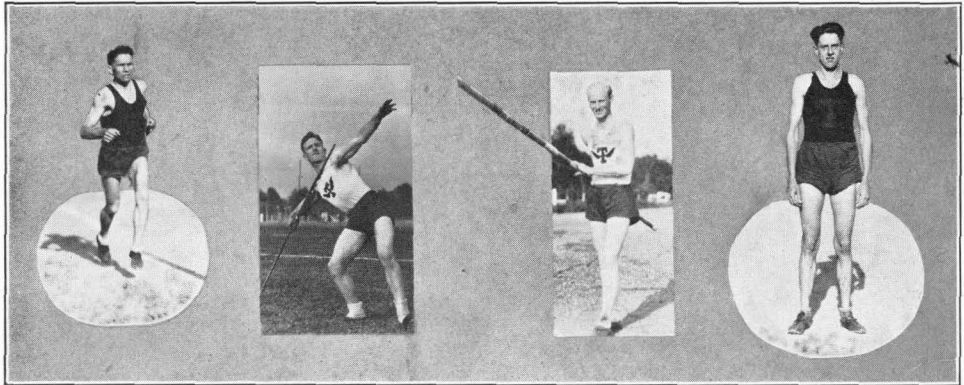
CAPTAINS

Captain Lynn, running his third year on the varsity, led the Beaver cinder artists to fourth place in the conference in 1928; the graduation of eleven letter-men last year greatly handicapped the squad and made necessary the development of new material this season. "Larry" began his brilliant athletic career at Tech as a freshman, placing third in the quarter in the conference meet. In his sophomore year he set the college record in the quarter and ran a lap on the starring relay team. He repeated his winning performances in 1927, alternating his efforts between the half and quarter-mile and the relay. Selected captain by his team-mates, Lynn proved the mainstay of the inexperienced 1928 squad. On Schultz's graduation, he took up the sprints where he was a consistent victor in the dashes in the early season meets. Lynn is a typical Tech product of the "Fox's" coaching, a real leader, a fighter, a good loser, a splendid athlete, and a sportsman.

Captain-elect Doug Perry was the outstanding performer of the 1926 frosh team. He won the low hurdles in the freshman conference meet, set a new Tech high jump record, and wound up his first year by defeating all comers in the first annual intramural decathlon. He also made Beaver freshman marks in both hurdles and the high jump. Doug's sophomore year was hampered by a badly sprained ankle which held him back all season. However, he managed to finish fourth in individual points scored, and hung up a new Tech record in the low hurdles. This year Doug fulfilled the promise of his former showing, taking fifty points in four meets for high point honors, as well as breaking his own high jump and low hurdle records. Perry is expected to lead the 1929 Engineer trackmen to a big year.



876T



GEWERTZ

C. SHIELDS

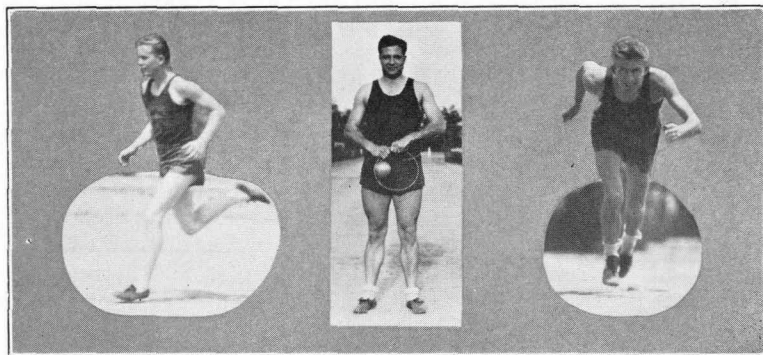
BELL

MORTON

Following Annual Home Field Day, which was won by the Class of '29, Glendale High School, Pasadena High School, and Pasadena Junior College were defeated by Coach Stanton's rapidly developing tracksters, and on February 18, the Beaver varsity piled up twelve points in the A. A. U. Relays at the Coliseum.

Journeying to Patterson Field, the Engineers took the short end of a 97 1-6—42 5-6 score in the initial dual meet of the year with Oxy. Lufkin and Alderman led off by placing one-two in the hammer throw, and Perry copped both hurdle events. Clyde Shields performed creditably by taking first in the javelin. Captain Lynn was second in the century and, in winning the furlong, he made a mark which was not surpassed before the all-conference meet. The victory was a costly one, however, for he unfortunately dislocated a bone in his foot which kept him out of regular practice for the remainder of the season. The Tigers, who had existed on a diet of humble pie for two years, finally gorged themselves on Beaver meat.

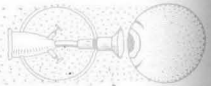
Pomona was the scene of the Beavers' second defeat, this time to the tune of 101 1-3—38 2-3. In spite of his injury received in the Oxy meet, Captain Lynn ran in the two sprints, taking first in the century and following Coulter

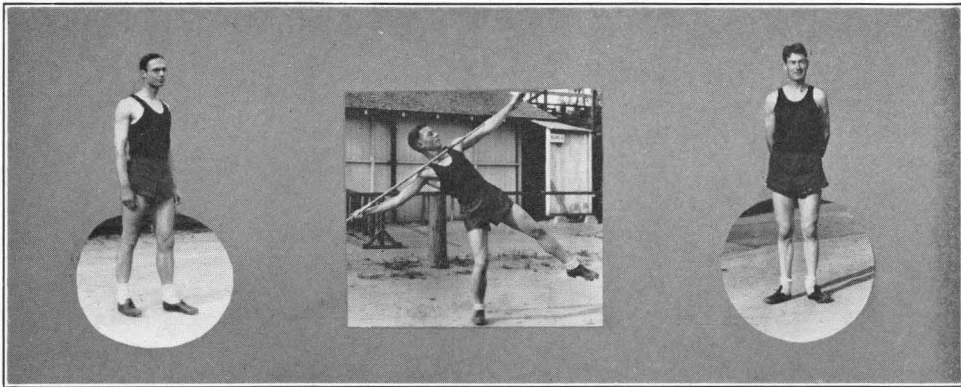
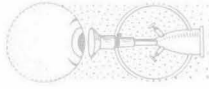


SMITH

LUFKIN

EVANS





KIRCHER

KINGMAN

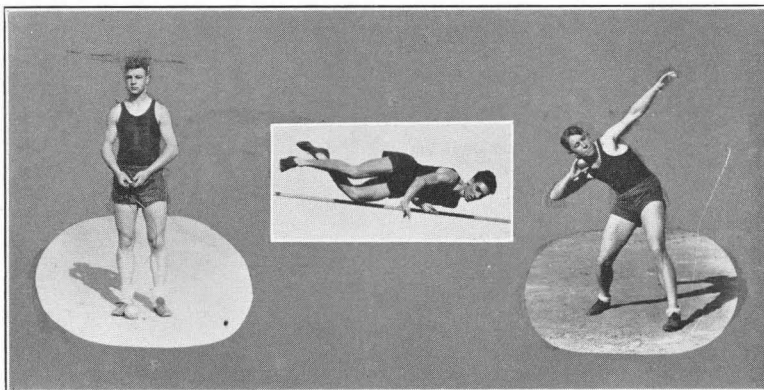
M. SHIELDS

to the tape in the furlong. Lufkin again threw the hammer off the lot to grab points. The better-balanced 1927 champions swamped the Engineers by registering clean sweeps in five events.

Climaxing exam week, the Tech men engaged the Redlands Bulldogs on Paddock Field. Baustian broke the college half mile record of three years standing, and Perry took his usual three firsts. Coulter and Joujon-Roche each accounted for a pair of firsts to swell the Engineers' 90-50 triumph.

After a week of vacation the Beavers returned to wallop Whittier 101 2-3 —38 1-3. Nearly every Tech man broke into the point column. On March 31, the Engineers were downed for the first time by a U. C. L. A. track team, losing by a 96-35 count. With Captain Lynn still out of the running, Perry was again high point man of the day.

In the Conference meet the Engineers finished fourth with sixteen points. The men placing were: Lufkin, first in the hammer throw; Kircher, third in the broad jump; Joujon-Roche, fourth in the shot, and Perry, second in both

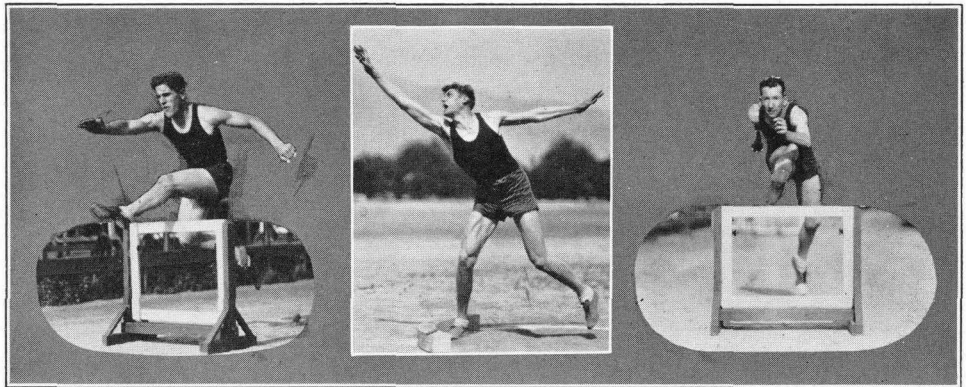


ALDERMAN

MAUZY

WESTLUND





EXLEY

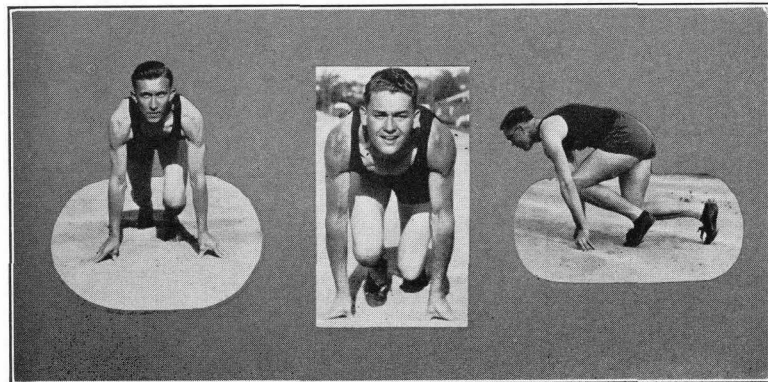
JOUJON-ROCHE

SCOTT

hurdles and fourth in the high jump. The relay team composed of Evans, Baustian, Gewertz, and Gramatky took fourth.

Perry, Kircher, and Lufkin went north with the all-conference team to compete against Stanford, April 14, where Lufkin tossed the hammer for third place. In this meet Stanford proved her superiority over the best in the Southern California Conference by a ratio of about 2 to 1.

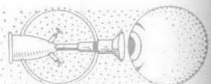
Captain Lynn, sprints; Captain-elect Perry, hurdles and high jump; Joujon-Roche, shot and discus; Gramatky, 440, broad jump, and relay; Baustian, 880 and relay; Evans, 440 and relay; Exley, 100 and low hurdles; Lufkin, hammer and discus; Coulter, sprints; Gewertz, 440 and relay; Clyde Shields, javelin; Mort Shields, mile and two mile; Westlund, hammer and shot; Kircher, broad and high jumps; Bell, pole vault and javelin; Morton, two mile; Smith, mile and two mile; Mauzy, high jump; Kingman, javelin; and Alderman, hammer, were all awarded their well-earned track letters this year. Although lacking experience, the 1928 team displayed that unconquerable Tech fight, which the "Fox" instills into his men, finishing fourth in percentage standing.



BAUSTIAN

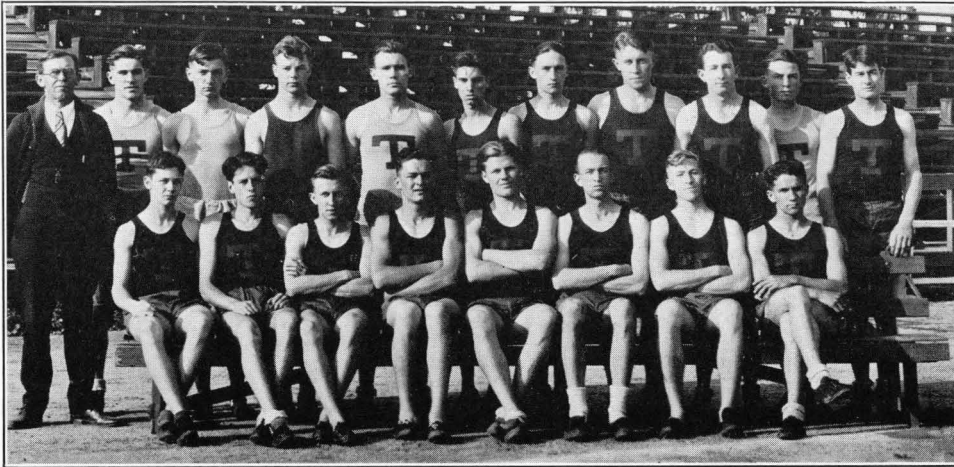
GRAMATKY

COULTER



COLLEGE TRACK RECORDS

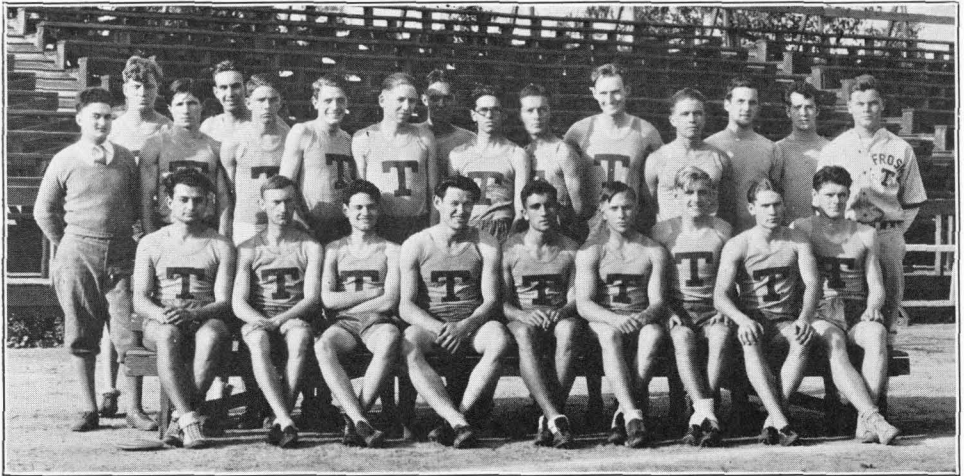
EVENT	HOLDER	RECORD	YEAR
100	Schultz	9.7	1927
220	Schultz	21.3	1926
440	Lynn	51.5	1926
880	Baustian	2: 3.7	1928
Mile	Keech	4:31.4	1924
Two Mile	Keech	9:52.2	1924
High Hurdles	Pomeroy	14.8	1926



VARSITY SQUAD

Low Hurdles	Perry	24.6	1928
High Jump	Perry	5' 11 1/2"	1928
Broad Jump	Kircher	22' 4 3/4"	1928
Pole Vault	Graham	13' 2.16"	1926
Hammer	Moyse	146'	1924
Shot	Edwards	43' 6 3/4"	1926
Discus	Edwards	124' 6 3/4"	1926
Javelin	Hoover	189' 11 1/2"	1927
Relay	Meserve, Schultz, Lynn, Pomeroy.	3:25.0	1926

1928



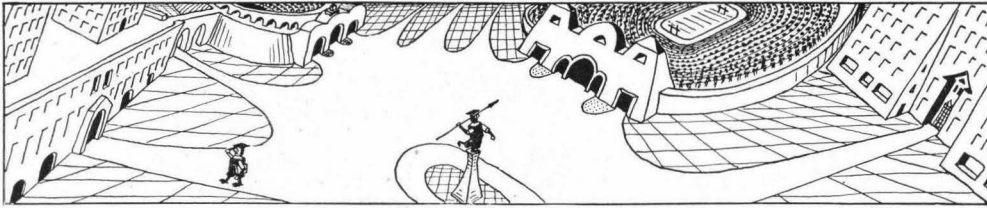
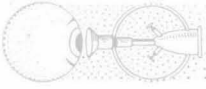
FROSH TRACK

Although the record of three dual meets won and three lost is not particularly impressive, the fact that six former frosh track records were broken by the men of '31 is an indication that some valuable material is at hand for future varsity teams.

Pier, the diminutive distance man, shattered two of the old records when he brought the time for the mile down to 4 minutes 54.1 seconds and that for the two-mile to 10 minutes 34.4 seconds. Robbins set a new record when he heaved the shot 33 feet 6 inches. Peer made another new mark of 102 feet in the discus throw, and Frick tossed the hammer out 96 feet 6 inches for a new mark in this event. Captain "Iron Man" Dickey was not entered in the pole vault until the season was half gone, yet he succeeded in topping Glenn Graham's mark by clearing 11 feet. Dickey was high point man for the season, placing repeatedly in the high and low hurdles and the broad jump as well as the pole vault.

In the interclass meet, the young tracksters upset the dope by taking three times as many points as had been expected of them. The strong Glendale High School team defeated the Tech frosh by a score of 78 to 39, but the first year men came back to smother Alhambra High by 76 to 34. Oxy nosed out a three point victory over the Tech men, following which another defeat was administered by Pasadena High School. Again the frosh came back fighting and gained victories over Monrovia High School and the Redlands first year men. As a fitting climax to a successful season the Tech men finished third in the conference despite the loss of Graff, sprinter.

In reward for their hard work and long training the following men were awarded numerals: Dickey, Graff, Pier, Frick, Maes, Smith, Peer, Jurling, Kinsler, Butler, Anderson, Van Reed, Mason, Stipp, Eastman, Keenan, Holzman, and Graffman for his work as manager.



BASEBALL



ELMER MUFF

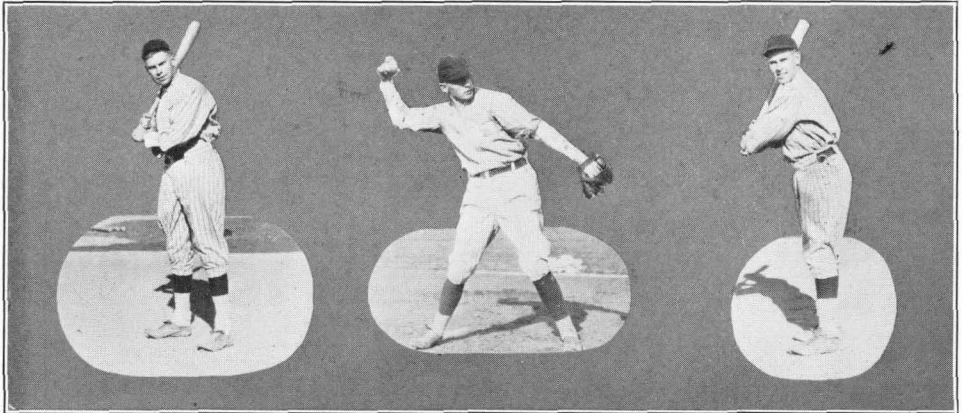
CAPTAINS

To win the respect of both teammates and members of the Athletic Council to such an extent as to convince them of his right to the highest award given to Tech baseball men in his first year of varsity competition is no mean accomplishment for any man. To further win the confidence of his fellows to the extent that they should choose him to captain the team during his second year of competition is a feat which has never before been equalled in the history of Tech athletics. Elmer Muff, winner of the coveted Rawlings Trophy in 1927, has just played through his most brilliant season of baseball as captain of his team, and Elmer is just finishing his junior year.

Muff has been one of the bright spots in Tech baseball history in several departments of the game. His batting has marked him as one of the most consistent players in the conference, while his fielding has at all times been above reproach. Elmer has proved on many occasions that his abilities are not limited to any one position on the field; in his first year of varsity play he demonstrated his ability first as a second baseman and later as one of the best catchers Tech has ever turned out. Throughout the past year, Elmer has been stationed at his old post on second base and has played the position with a skill comparable to that shown by any man in the conference.

Playing ability alone, however, has not won for Muff the captaincy nor the Rawlings Trophy. He has displayed those rare qualities of leadership and sportsmanship which are so essential to the true competitive athlete, and he has shown on innumerable occasions that he possesses a fighting heart which is the pride and joy of his coaches.





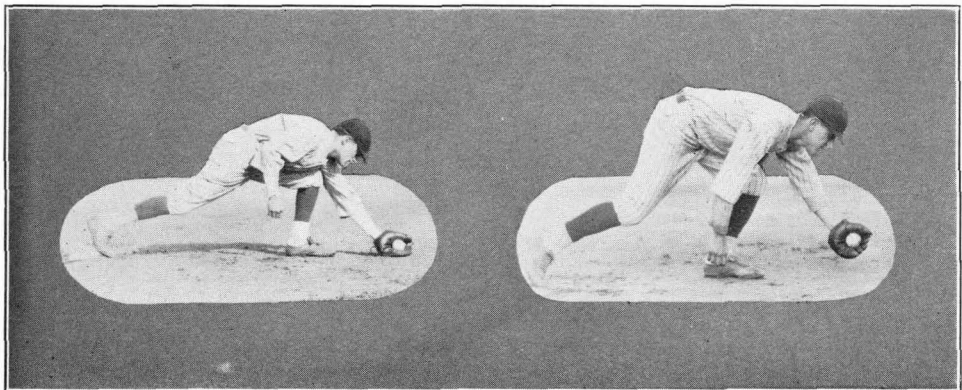
OLSEN

REED

DICKERMAN

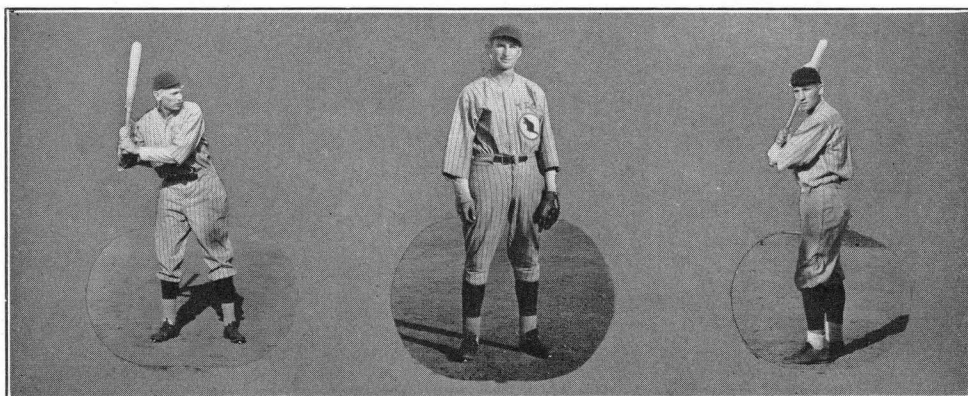
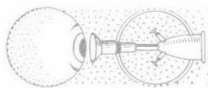
Starting with a rather small turnout, the Tech baseball men developed themselves into a first class diamond organization. With the aid of six returning lettermen and several of the last year's frosh team, Coach Musselman has built up one of the most efficient teams ever assembled at Tech.

Several good men had been lost by graduation, and several more failed to return this year. At the beginning of the season the men around whom it appeared likely that the team would be built were Muff, catcher; Reed, pitcher; Cramer, shortstop; O'Haver, left field; Taylor, right field. After the first two weeks of practice Muff was shifted to his old post at the second bag, with Pritchett, a transfer, replacing him at the plate. Taylor was moved to first base, and Olsen and Folkemer filled the remaining outfield berths. Les Boyle and Ernie Hillman, sophomores, filled in admirably at third base and pitcher respectively. Scharf, Dickerman, Oaks, Towler, Wheeler and Stevenson showed up well as second string men.



TAYLOR

CRAMER



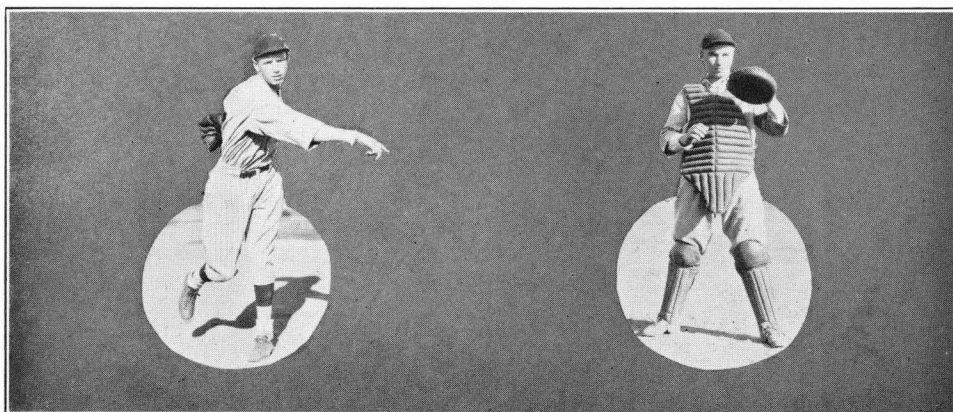
FOLCKEMER

O'HAYER

BOYLE

Eight practice games were held before the conference season opened, and most of them turned out to be Tech victories. Hollywood High, California Christian College, Fullerton Junior College, and Santa Ana Junior College numbered among these early victims. During the conference season, two more practice games were scheduled, and won; California Christian College later won a return game.

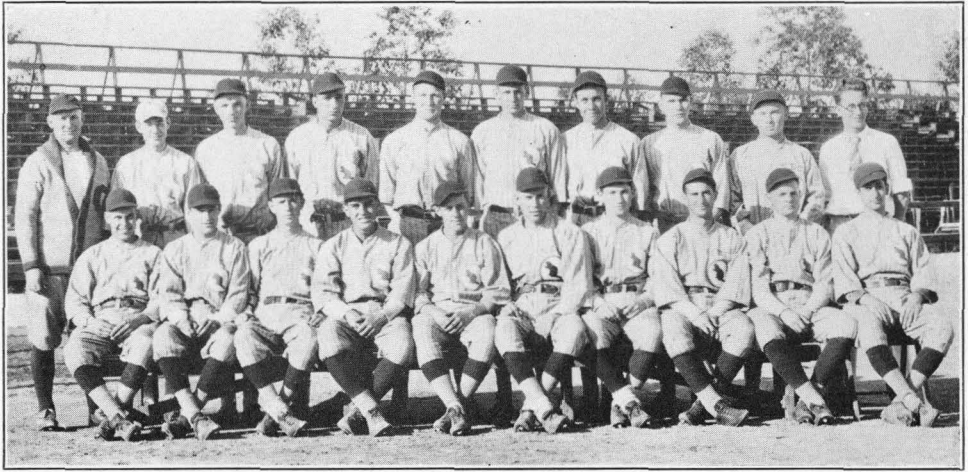
The first conference game of the season, with San Diego State Teacher's College, was won by Tech by a close margin of 11 to 9. The Engineers were in a hitting mood, Muff knocking a homer, O'Haver a three bagger. Hillman featured the game by his relief pitching in the eighth inning when he retired the opposition with two men on bases. Pritchett played a fast game in spite of an injured ankle. Boyle was taken from the game with an injury, and O'Haver replaced him at third, Folckemer going into the field to relieve O'Haver. The playing of some of the newer material gave great encouragement for the continued success of the season. The change of pace afforded by using both Reed and Hillman on the mound proved valuable in later games.



HILLMAN

PRITCHETT

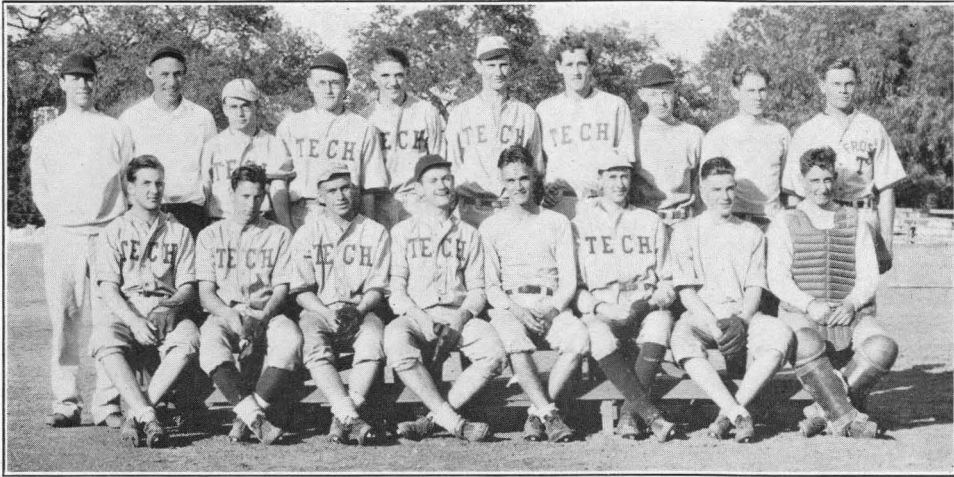
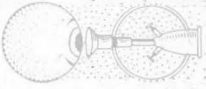




The strong La Verne team with its eight returning lettermen proved too good for the home team, and was victorious 14 to 8 in spite of a seventh inning rally staged by the Tech varsity. Errors in the field gave the visitors a lead which could not be overcome in the latter periods. The game evidenced a general improvement on the part of Coach Musselman's men, but they were unable to cope with their stronger opponents. Hillman was sent in again to produce some of his relief pitching, and held the Leopards down for the last two innings. In Kreps, La Verne has one of the best pitchers in the southern conference. Shirk, also of La Verne did some fine batting, knocking four balls out of the lot. Muff and Pritchett garnered the Tech batting honors by knocking three safeties apiece.

Without doubt the most exciting and best played of the conference games was the one with the Occidental Tigers. Tech was forced to take a 10-7 beating, but it was necessary to go ten innings to do it, the score being tied 7-7 at the end of the ninth frame. Reed did some nice work, holding the Tigers to an intermittent scoring. Our hitting was fairly regular. In the eighth inning Tech knocked three Occidental pitchers out of the box, tying the score. The tenth inning netted Oxy three runs, including DeHoag's second homer of the day.

In another thrilling game, the Pomona Sagehens emerged on the long end of an 11 to 8 score after nine innings of heavy hitting and clever base stealing. Three home runs by Cramer of Tech and Hansen and Williams of Pomona featured the game in which Pomona was credited with twelve hits and Tech with nine. For eight innings the game was anyone's game, with neither team showing superior strength. A last minute flash begun by the Tech men was successfully smothered by Pomona and Hansen's homer in the ninth completed the afternoon for the Sagehens. Reed and Hillman again handled the mound work in good style, while O'Haver enjoyed a perfect day at bat with three hits in three times up.



FROSH BASEBALL.

In keeping with the enthusiasm shown for other major sports, the frosh turned out in good style for frosh baseball. As is usually the case, practically all of the positions had to be filled by men with little or no previous experience. Layton Stanton, the man who this year coached three freshman teams, very soon had a remarkably well balanced team rounded into shape from the large number of candidates available. He stressed particularly the need for team work. His problem was complicated by the fact that the men had not played together before, but the results bear witness to his and the team's spirit.

The first outside game of the season was scheduled with Pasadena High School. Although the frosh were unable to adequately meet such experienced competition, they gave a creditable account of themselves. A certain amount of individual skill was demonstrated by the frosh, but defeat was caused by lack of consistent team work.

Two weeks later, however, when the team went to Eagle Rock to meet the Occidental freshman, team work had a very important part in the game. The Tiger yearlings produced a more experienced team, and managed to score in most of the innings. In point of runs, the game was a walkaway. In point of experience, however, the results were more encouraging. In the eighth inning, the Tech men really started, and scored four runs. In that one inning they showed a strength that needed only experience to bring it out.

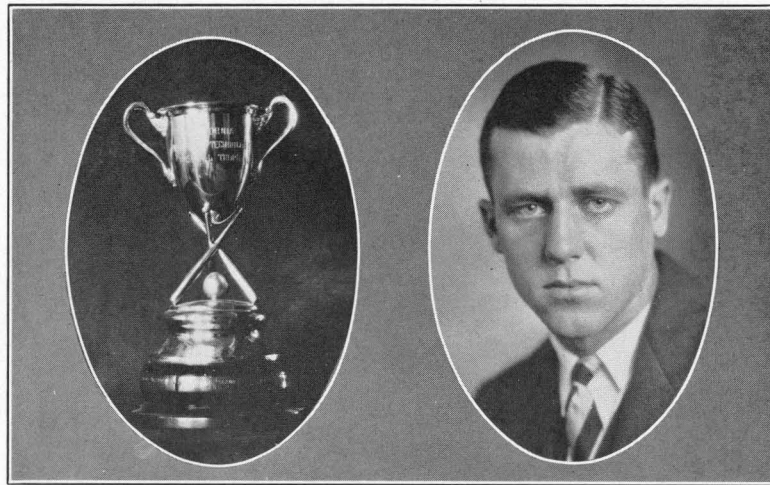
The San Diego Army and Navy Academy successfully invaded Tournament Park, but had a hard time turning in their 6 to 2 victory. The Tech men played practically air-tight ball. Frick, first baseman, was on the injured list, and was badly missed by the team. The general reduction in the number of errors, and improved hitting of the freshmen was in evidence.

Although defeated in many of their games, the frosh team made marked improvement during the season. During the next three years, the benefit of this year will be noticeable. Arganbright, Bell, Crawford, Etchepare, Oliver Folsom, Frick, Fatcher, Green, Hall, Horn, Morris, Osborne, and Young were the mainstays of the team.



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THE RAWLINGS TROPHY



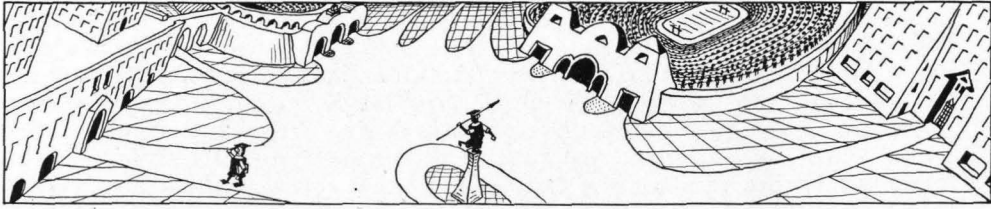
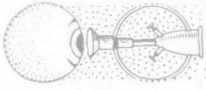
ELMER MUFF

As the Wheaton Trophy is to football, so the Rawlings Trophy is to baseball. This beautiful trophy, which consists of a silver cup supported on a tripod of baseball bats, was presented to the men of Tech by the Rawlings Manufacturing Company of St. Louis for the furtherance of interest in the national game.

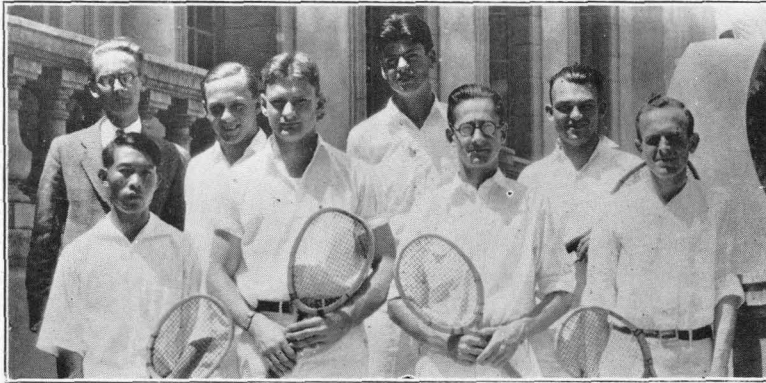
Each season a man is selected from the baseball squad who, in the opinion of his teammates, typifies the highest ideals of Tech athletics. Every man on the squad is graded by his fellows according to the following qualifications: sportsmanship, 15 points; moral influence upon the team, 15 points; improvement during the season of intercollegiate competition, 20 points; playing ability, 50 points.

The winner of the coveted Rawlings Trophy for the 1927 baseball season, the third year of the award of the prize, was Elmer Muff. That Muff is a player of no mean ability is well known to all men of Tech. His cheerful, sportsmanlike conduct on the diamond has won for him the universal respect and admiration of his fellow athletes. Muff played an infield position for a part of the season, and filled his post to perfection. The loss of a regular catcher forced Coach Musselman to convert the versatile Muff into a catcher, which position Elmer filled for the remainder of the season. His unerring throw to second proved wonderfully effective in stopping opposing runners. His timely hitting was also a great factor in the success of the team.

Not only has Elmer attained the distinction of being the third man to have his name engraved upon the symbol of the highest baseball award given at Tech, but he also has the added distinction of having won the great prize in his sophomore year. A second unusual event in Muff's baseball career was his selection as captain of the 1928 team, an honor equally as great as that conferred by the Rawlings award since a captaincy in the junior year is seldom attained at the Institute.



MINOR SPORTS



F. SCOTT
HIYAMA

LOMBARD
KEELEY

STRONG
HUGG

GILMORE
FICKLEN

TENNIS

With a chance to raise tennis to a major sport basis furnishing a goal to strive for, much was expected from the green team this year and the men responded nobly. Having only one letterman returning to lead them through the season and to act as a nucleus, the untried team rallied around Captain Jim Keeley and turned in a respectable showing. Gaining in strength and experience as the season advanced, they finished the season by a decisive win over Redlands.

Not only were the Tech hopes weakened by the loss of several of last year's lettermen who were counted upon, but also by the loss through ineligibility of several high men in the elimination contest. The survivors of the round-robin were : Captain Jim Keeley, Captain-elect Hugg, Biddle, Gilmore, Strong, Ficklen, Hiyama and Reynolds. The first five men were chosen to compose the first team, but new men were soon found wearing the orange and white. The season ended with Keeley, Hugg, Lombard, Strong and Hiyama composing the first team.

The season opened with a practice match with U. C. L. A. and the Beavers found this experienced team too much for our team. After a hard fight our men came home defeated by the score of 7-2. The best match of the day was that between Jim Keeley and Rod Houser in which Jim was defeated 6-2, 4-6, 6-2. It is games like this, turned in time after time, which go down as a loss on the final score but which do not show how we went down with colors flying.



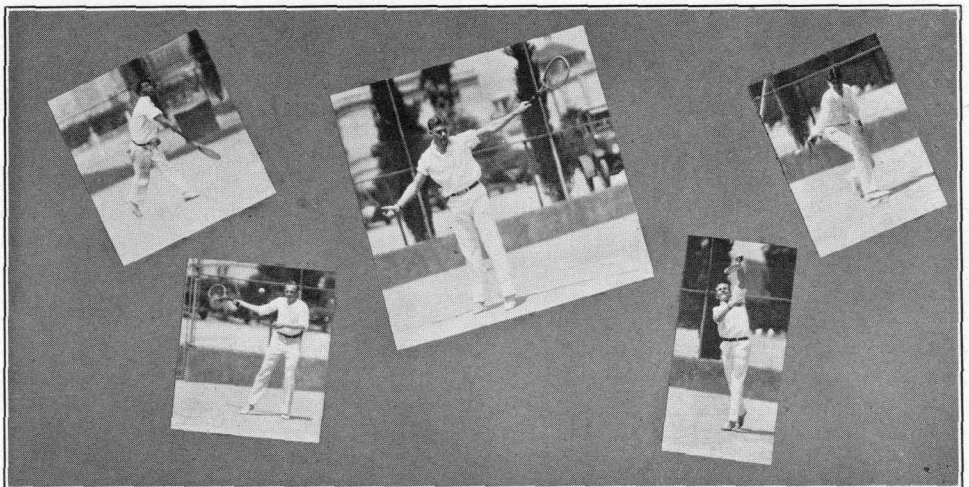
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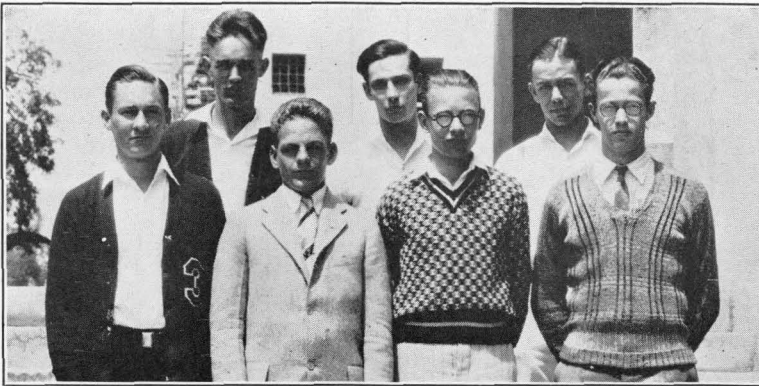
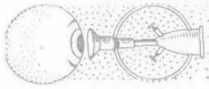
The first conference match was with Pomona, and although our team had improved considerably from experience they had gained in the hard fought Bruin encounter, they could not overcome the finished Pomona racket wielders. Every stroke of the Pomona team was smooth and accurate; before their clock-like onslaught our team fell once more. New hope was instilled into the team in this match due to the appearance of Al Lombard, who wore the orange and white on the courts for the first time in this match. His performance in this match established him for the remainder of the season as third man on the squad.

On March 31, the strong Oxy team was met and, as had been expected, Tech was defeated. "Big Jim" Keeley again held up the honors for Tech by defeating Fogg 6-2, 6-0. Gorchakoff and Maeno proved too good for our racquet men, however. A few days later the team encountered the faculty led by Dr. Swift and derived much practice and timely advice as to their play from the professors.

The next conference match was with San Diego at Tournament Park, and here the team began to show some real form. Although the score was 7-2 against our tennis men, the team showed the best tennis which they had played so far during the season. Coupled with Hiyama, Austin Strong uncorked the best game he had and with his partner defeated Blade and Treutlein in the doubles by the score of 6-2, 6-4.

The final conference match of the season was played the next week with Redlands. By this time the team had rounded into such shape that they trounced the Bulldogs by a 5-4 score. Although Tech lost most of the singles matches, they came back strong to cop the doubles and with them the match. After two hard sets Keeley and Hugg disposed of Bishop and Lund by the score of 7-5, 7-5. Although Lombard and Strong, who composed the second doubles team had lost the first set 4-6, they came back in the second to win by 6-3. With the match depending on the third set, our team was able to run the score to 4-1 in their favor only to have the Bulldog pair tighten up and pull the score up to 5-4 and point set in favor of Redlands. Lombard and Strong pulled out of the hole, winning by 10-8.





FROSH TENNIS

With the beginning of the second term of college, the frosh began turning out for tennis. As soon as possible, a tournament was scheduled for the purpose of picking the team. The matches revealed a definite amount of talent, and a number of entrants appeared who had the advantage of high school experience.

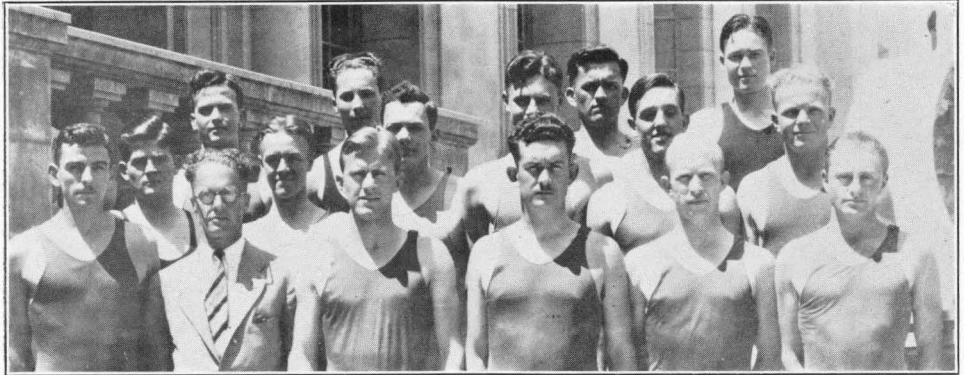
Between the tournament, and challenge matches, a team was chosen to represent the college. The picked men were Robert Coleman, Glenn Myers, Lucas Alden, Leland Pratt, Charles Kircher, Cliver Harmon, manager, and Vance Arganbright, and Oliver Folsom, alternates. The fellows played a fast, hard hitting game, with lots of pep and fight, and as a result had a very successful season. Anyone gaining a victory over them knew he had been in a real match.

Though the team had not been organized long, and the men had not become used to their teammates' type of play, the Beavers met the Occidental frosh team and showed their superiority by winning 9 to 0. The matches were speedily played and after the Tech men once gained confidence they had little trouble. The best match of the day was the first singles, when Bob Coleman came back fighting after losing the first set to outplay his opponent in every department of the game and chalk up one more victory for Tech.

Two weeks later they met the Pomona frosh in the second conference match. The Sagehens had a championship team, and left the Tech men with the short end of the score. Real competition was in evidence, however. The first doubles match with Myers and Coleman paired together was the most spirited match of the day. They took the first set, but the steadier overhead game of their opponents began to tell on the fellows, and they lost the next two sets. The final match of the season took place the following Saturday with the San Diego frosh at Tournament Park. In this tournament the men just could not get going, and finally were forced to admit defeat. The matches were extremely close, however, going to deuce games and three set matches. Kircher and Pratt, paired together in the second doubles were able to come out victorious after a gruelling three set match that lasted over two hours.

The men all gained much in experience this year, and with more practice ought to develop into good material for future varsity teams.





SWIMMING

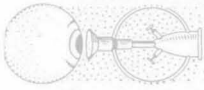
Swimming this year proved to be one of the most popular of minor sports despite the lack of a pool on the campus. About thirty men took advantage of the opportunity to spend three or four pleasurable hours a week in the Pasadena Athletic Club or the Y. M. C. A. pool. A few who did not understand the art of swimming in scientific style soon learned, while those who already used the correct method of propulsion greatly increased their efficiency before the end of the season. The chief factor in this accomplishment was the excellent coaching of Mr. D. R. MacLaren, a graduate student, whose recent experience on the Princeton team proved invaluable.

The season started at the opening of the second term with a small group, chiefly candidates for the varsity team. The vacancies left by non-returning members of last year's team were for the most part well filled by graduates of the frosh team, as well as by returning juniors and seniors. Captain "Dashy" Bode, recognized as one of the best distance men yet produced in the Southern Conference, showed that his ability by no means had declined, and, with an eye to the future, began working in the shorter distances. Jimmy MacDonald, who had shown great ability in his first year, came through with all that was expected of him in the distances and backstroke.

In the dash events, material was not lacking, with Jacobson, Wingfield, and Grimes back in good condition, besides Captain Bode. Harry Keeling was again invincible in the breaststroke, with John Shields, back after a year's absence, following close behind. Fancy diving was taken care of in great shape by Jimmy Dunham and Horace Allen, both of whom showed considerable improvement over previous years in diving form. Besides those already mentioned, Berry, Cline, and Jones deserve credit for working energetically throughout the season and giving support where it was needed.

With the opening of the third term, the turnout became greater than it had been in any previous year. Although the margin was small, it was sufficient to warrant the treatment of the sport more as a form of exercise for all interested than as a mere field in which a few developed athletes might enter just to represent their college in intercollegiate meets. The merits of swimming





as an exercise are recognized as high enough to rank it among major sports as far as exercise itself is concerned. In accordance with this idea, Coach MacLaren devoted considerable attention to those who were not immediate candidates for the team.

Competition with other conference colleges was slow in forthcoming. Two practice meets early in the season gave a general idea of the status of the team, but were not typical displays of Southern Conference competition, due to the acknowledged superiority of the opponents. The transfer of U. C. L. A. to the Coast Conference insured more even competition, and encouraged the organization of teams at colleges which had previously shown little interest in aquatic sports.

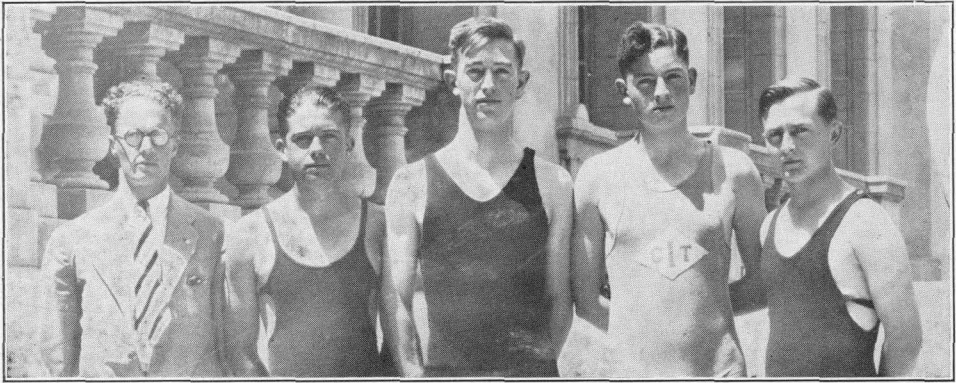
Not until rather late in the third term were regular swimming meets scheduled. The first of these was an important practice meet held with the Pasadena Athletic Club swimming team. The P. A. C. C. men were able to win seven of the eight first places in the meet, Fred Cline of the Tech team winning the plunge for distance at 68 feet for the only first place recorded by the Engineers. The final score of the meet was 43-24, the Beavers swelling their score by means of several second and third places. Ward, Graham, and Williams were the outstanding point winners for the club; Cline, Bode, Jacobson, Dunham, Keeling, J. Shields, Crosher, MacDonald, and Thomas scored points for Tech.

In the second meet of the year, the Beaver water artists finished third to the P. A. C. C. and U. C. L. A. The contest was a four cornered affair between the Club, U. C. L. A., Oxy, and Tech. The final score showed the strong P. A. C. C. team again in the lead with a total of 59 points; the Bruins were not far behind with their 50 markers; Tech finished in third place with 20; and Oxy brought up the rear with 3.

Displaying great strength in nearly every event, the juniors walked off with the interclass swimming meet which took place early in the third term. Bode, Dunham, Cline, Grimes, Keeling, and Jones were all instrumental in causing the downfall of the seniors, who were the nearest competitors. The freshmen finished in third place, with the sophomores bringing up the rear.

On May 3, the only dual conference meet of the year was held with Pomona aquatic stars in the Pomona College pool. The Engineer swimmers practically captured the conference championship in this meet by defeating Pomona by the one-sided score of 56 to 21. Tech's mermen covered themselves with glory by taking all but two of the nine first places. Captain Dashy Bode added a desirable bit of interest to the occasion by whipping off the 440 yard swim in his best form, breaking the conference record for the distance. Bode finished nearly two laps ahead of his most dangerous competitor and clipped 12.9 seconds from the former record. His time for the race was 6 minutes, 27.1 seconds. Harry Keeling established a new college record in the 100 yard breast stroke when he negotiated the distance in 1 minute, 19.8 seconds. Bode also won the 220 yard dash in a thrilling finish in which Backstrand of Pomona all but nosed him out. Grimes registered another very close win over the versatile Backstrand in the back stroke. Wingfield lost the 50 yard free style to Backstrand by inches. Tech won the relay without much trouble. Dunham, in the dives, and Cline, in the plunge, registered Tech's remaining first places. Jacobson, Wingfield, Shields, MacDonald, Allen, Berry, Crosher, and Jones captured seconds and thirds.





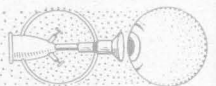
FROSH SWIMMING

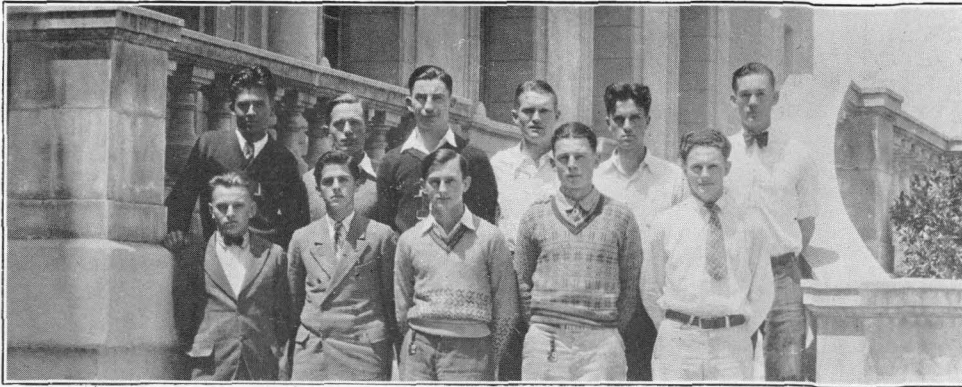
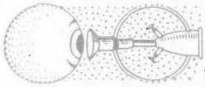
Although the turnout for the freshman swimming team was relatively small this year, the squad made up in quality what it lacked in quantity. The bulk of the men who answered the early season call for candidates for the swimming teams without possessing the desirable previous experience, were freshmen. Rice, the only freshman candidate who had the advantage of actual high school experience, practiced with the varsity from the beginning of the season, and demonstrated considerable ability. The other members of the squad were quick to learn the tricks of the trade and improved very rapidly as the season wore on.

Active practice was begun early in the third term under Coach MacLaren, who was largely responsible for the progress made by the first year men in the natatorial arts. In the interclass meet which was held during the third term, the freshman team displayed unexpected strength and won third place, barely missing second place honors when the seniors nosed them out by one point. After a few more weeks of practice the squad showed unmistakable signs of improvement and furnished much competition for the varsity squad. The remarkable development from a bad start was further evidenced by the fact that the Tech frosh were considered as strong contenders for the conference championship in the conference meet scheduled for May 19.

All of the freshman swimmers show indications of being strong contenders for varsity positions next year. Rice was the outstanding star, showing up well in the sprints and the middle distances. Robbins and Gunderson, both demonstrated that they have considerable speed and stamina, and these men should do well in the dashes in future years. Pickles developed rapidly and became quite proficient in the breast stroke. Mason assumed the double task of performing in the dives as well as in the dashes and middle distances, and attained a fair degree of proficiency in each event. Robbins also looked well in the back stroke.

Several of the men took part in practice meets scheduled by the varsity squad, the last of these being the meet held with the Fullerton Junior College and the Pasadena High School. Rice, filling in a position in the 220, captured third place. Mason, swimming a lap in the relay, showed that he was equal to the best on the varsity squad.





RIFLE TEAM

The Tech rifle team enjoyed one of its most successful seasons this year, and although not all of the matches resulted in victories for the Engineers, some very good shooting was done by the team. The end of the regular season of intercollegiate competition found the Tech team well on the safe side in percentage figures.

Postal exchange matches were held with the Massachusetts Aggies, the Texas Aggies, Southern California, the University of North Dakota, Emory University, and with Iowa State College, the final results showing a close balance between matches won and lost by the Tech men. During the middle of the season, a five man team journeyed to Pomona where the Sagehen sharpshooters were engaged in a shoulder-to-shoulder match. By turning in some excellent scores the Pomona men managed to squeeze out a very narrow margin of points and sent the Beavers home on the short end of the score. The match was so enjoyable to the men of both colleges that the invitation which Tech later extended for a return match was eagerly accepted by the Pomona team. This match marked the close of the regular season, and was indeed a fitting close. The Tech men were more fortunate on this occasion and carried off the honors with an eleven point victory.

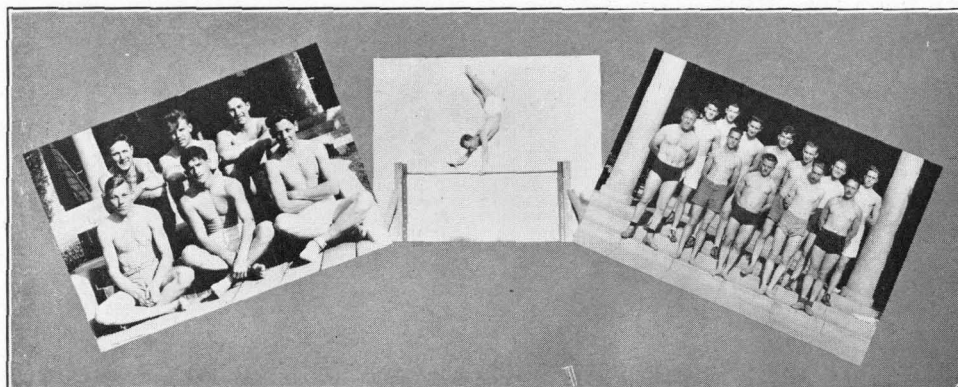
Sergeant Bailey displayed a keen interest throughout the year in the progress of the team, and spent considerable time in installing an adequate lighting system on the indoor range, thus enabling the men to carry on their practice shooting regardless of weather conditions.

A new official target was introduced this year on which the rings were much smaller than were those on the former standard target, and hence the scores at the beginning of the season were considerably lower than usual. However, the scores shown after a few weeks of training were found to be comparable to the scores of previous years.

The two most consistent shots on the team this year were Sarno and Pohl, who were closely followed by D. Kingman and O. Reinen.

Other men who distinguished themselves by turning in remarkably consistent scores were K. Kingman, Slick, Deardorf, Baker, Dunn, Robinson, Tucker, Roney, Rapp, Taylor, and Miller.





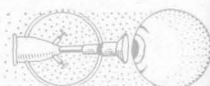
BOXING, WRESTLING AND ACROBATICS

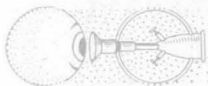
Although practically no outside competition was engaged in this year in either boxing, wrestling, or acrobatics, a very highly successful intramural season culminated in the matches which were held during noon hours in the Dugout throughout the early part of the third term. Both boxing and wrestling were coached by Arthur Griffith, former heavy-weight champion of the British Navy, who was given much valuable aid in teaching the boys the tricks of the trade by Dick Duval, who worked with the wrestlers, and by Jack Berman, who had charge of the boxers. The whole coaching staff was very competent and the progress made with the raw material on hand was very evident at the end of the year. It is hoped that Mr. Griffith will be back next year; it is also very much to be regretted that both Duval and Berman will graduate and that the Institute will have to look further for assistant coaches.

The only interest in acrobatics this year has been displayed by Paul Wagner, who has gone to great pains to fit himself up with a home-made horse and set of horizontal bars over on Paddock Field, and who will represent Tech in the California State Intercollegiates.

Interclass wrestling was won by the seniors, who gained championships in four weight classes. The juniors took second with two class championships, and were followed by the sophs with one. The frosh brought up the rear with no score. In the unlimited class, Lewis, '28, won by challenge, as every one else was afraid of him. Although out of his class, Duval, '28, won the light heavyweight championship. Weber, '28, was crowned middleweight king, and Kuhn, also a senior, cleaned up in the 147 pound class. The three lighter classes were won by I. Berman, '29, Slick, '29, and Stipp, '30.

Interclass boxing was also won by the seniors, with two championships. The sophs and the frosh each won one and tied for another, while Keeley scored the juniors' only points by winning the heavyweight championship. The other classes were topped by Durfee, '28, J. Berman, '28, Zipser, '30, and White, '31. The lightweight final bout was a draw between Sass, '30, and Smits, '31.





CROSS COUNTRY

A fairly successful cross-country season was enjoyed this year by the Varsity squad. In the Conference meet of the year, the Beavers managed to run off with fourth place. Brown, of San Diego, won the four mile event, held over the new course near Pomona. The final results, however, gave the title to U. C. L. A., who won with a low score of 44, followed by San Diego with 60, Redlands with 87, Tech with 91, Pomona with 109, and Occidental out as only four of their men finished.

Two other meets were run off during the year, one with Alhambra High School, and one with the Pasadena Junior College team. The Tech aggregation was winner in both of these meets, although the winners, Morton and Shields, were very closely pressed for first place by Barbour of Alhambra and Jessup of Pasadena.

Minor sport letters in cross-country were won by the following men: Captain M. Shields, Gewertz, Baustian, Hopson, Kleinbach, Cromley, Hampton Smith, and Wilkinson, of which number only two, Smith and Gewertz, will be lost this year by graduation.

The Frosh season was more or less indifferent. Though the class of '31 furnished a strong turnout, natural talent was largely lacking. Pier was probably the outstanding star among the pea-greeners. Other frosh who made their numerals were Sherman, Bob Smith, Jurling, Keenan, Crossman, Pratt, Wright, Lewis, Ted Folsom, and Tarbet.

INTRAMURAL ATHLETICS

The intramural athletic program at Tech includes interclass competition in all major and minor sports. Each sport is allotted points according to its importance, and the championship is awarded to the class amassing the largest number of points.

In addition to the interclass competition, two basketball leagues are formed, one of fraternity, and the other of independent teams. This year the Sigma Alpha Pi team won the interfraternity championship title, while the Wolverines finished at the top of the independent league race.

The senior class won the football championship, followed by the sophomores, who, after winning from the frosh in their first game, lost to the seniors in the second. The juniors had a heavy, experienced team and expected to win in a walk, but lost their first game to the seniors, later winning from the frosh.

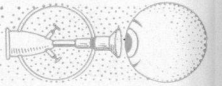
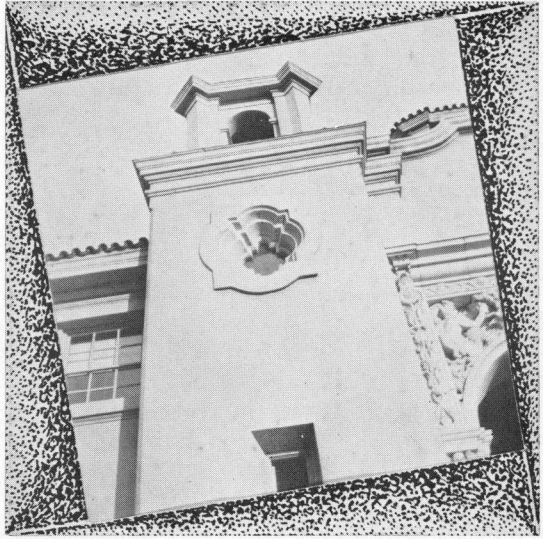
In the interclass track meet, in which varsity men were allowed to compete under handicap, the juniors surprised everyone with an easy win, scoring 75 points. The frosh took second with 49, followed by the sophomores with 27, and the seniors with 24.

The senior class came back to win the interclass basketball title, the juniors coming in ahead of the sophomores to win second.

By winning both boxing and wrestling, taking a second in swimming and third in cross country, the seniors added enough to the major sport scores to lead the classes with 107 points as the annual went to press. The juniors finished second with 99, followed by the sophomores with 58½, and the frosh with 54½.

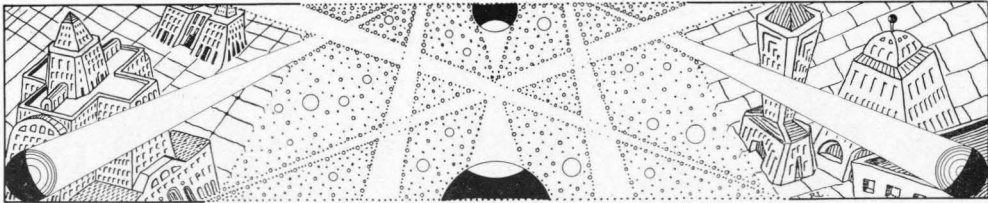
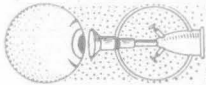


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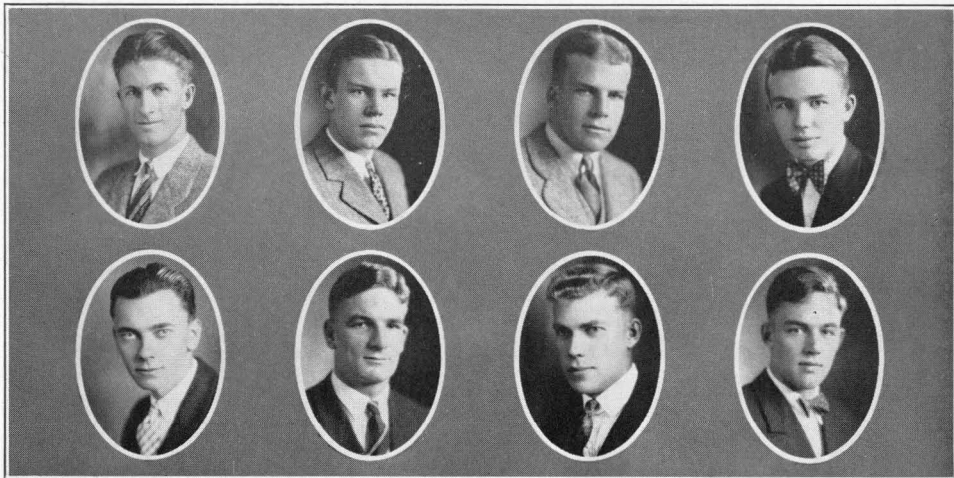




ORGANIZATIONS



ADMINISTRATION



Evans
Baker

Robinson
Shields

Chilberg
Olsen

Minkler
Folsom

EXECUTIVE COMMITTEE

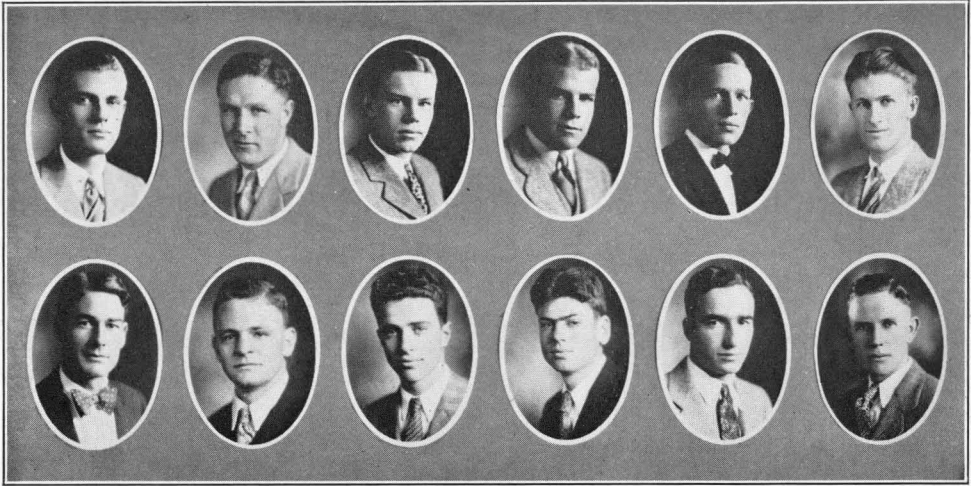
Conrad Scullin	President (1st term)
Kenneth Robinson	President (2nd and 3rd terms)
Kenneth Robinson	Vice-President (1st term)
Guy Chilberg	Vice-President (2nd and 3rd terms)
Fred Bewley	Secretary (1st term)
Tom Evans	Secretary (2nd and 3rd terms)
Gordon Minkler	Treasurer
Howard Baker	Publicity Manager
Richard Folsom	Athletic Manager
Clyde Shields	Representative at Large
Bill Olsen	Representative at Large

The Executive Committee is the governing board of the student body. It is composed of the student body officers and two representatives at large, elected from the three upper classes, making it truly representative of the students.

Since so little is heard of the Ex Committee, as it is popularly called, that many of the students are unaware of its existence, a review of its duties might not be amiss. This committee decides the policies of the student body and has charge of such vital affairs as the budget, passing on athletic awards, and certifying student body bills.

The fact that the Ex Committee functions so smoothly and quietly is a great tribute to the men who have so ably served us this year.





Cutler
Shields

Durfee
Reed

Robinson
Zahn

Chilberg
Strong

Kingman
Oaks

Evans
Prentice

BOARD OF CONTROL

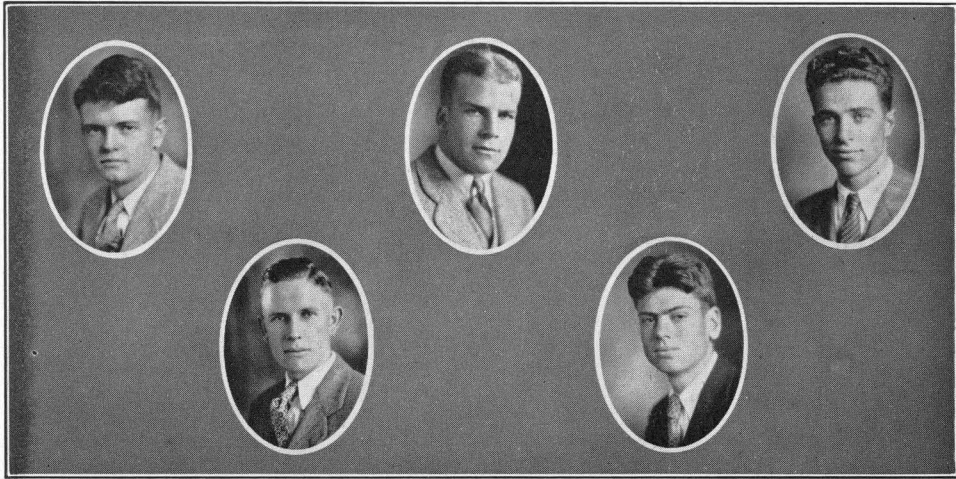
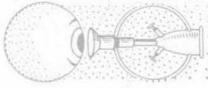
- Chairman* Kenneth Robinson (1st term)
Guy Chilberg (2nd and 3rd terms)
- Ex-officio* Conrad Scullin (1st term)
Kenneth Robinson (2nd and 3rd terms)
- Secretary* Fred Bewley (1st term)
Tom Evans (2nd and 3rd terms)
- Seniors* Ralph Cutler, Philip Durfee, Douglas Kingman
- Juniors* Morton Shields, Homer Reed, Oswald Zahn
- Sophomores* Austin Strong, Bob Oaks
- Freshmen* Don Prentice

The Board of Control is composed of the Student Body President, who is an ex-officio member, three seniors, three juniors, two sophomores, one Freshman, and the Vice-President and Secretary of the student body who preside over the meetings but who have no vote. This gives all the classes a representation on the board but gives the balance of power to the upper classmen who have had more experience in the college traditions.

The Board of Control has the duty of preserving and fostering the Tech traditions. It tries all cases of violation of the Honor System, Tech's most cherished tradition. The violations of the other traditions are tried by a subsidiary committee, the Court of Traditions.

The Honor System permeates all of Tech life; when necessary, examinations are permitted to be taken home; a candy counter is maintained, and stickers are sold without an attendant. This system acts as a great character builder, and honesty, so essential to an engineer or scientist, predominates in the training of Tech men.





Riggs

Prentice

Chilberg

Strong

Zahn

COURT OF TRADITIONS

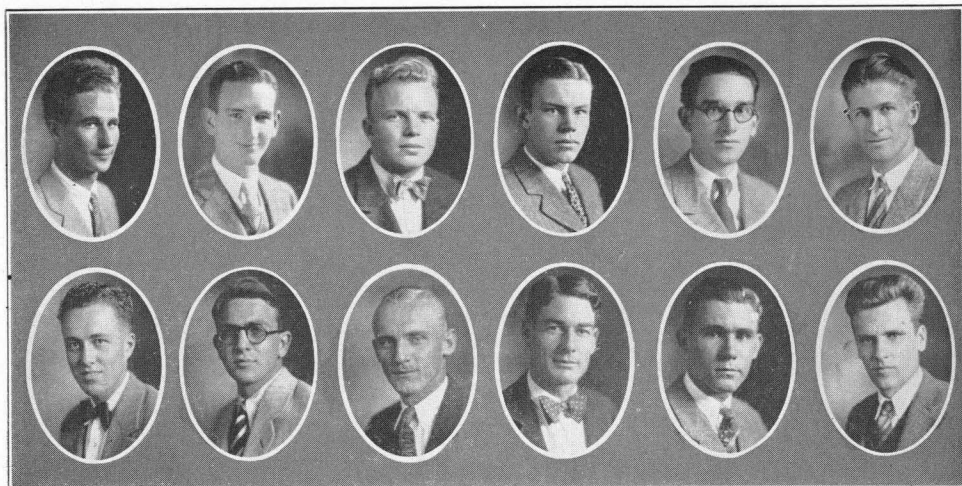
- Guy Chilberg Senior Judge
- Oswald Zahn Junior Judge and Clerk
- Austin Strong Sophomore Judge
- William Riggs Sophomore Prosecutor
- Don Prentice Freshman Representative

The Court of Traditions is a subsidiary committee of the Board of Control and has for its duties the enforcing of school traditions and freshman rules.

Last year the period of enforcement of the freshman rules was shortened to two weeks before the end of the second term and was found a great improvement over the former practice of continuing the enforcement till late in the third term. This year the enforcement, to all practical purposes, ceased near the middle of the second term with no noticeable increase of insubordination on the part of the Frosh.

Each class has a representative on the court, and as far as possible the Sophomore and Freshman classes are given a fair deal in the enforcing of the Freshman rules, which forms by far the largest part of its work. The members of the court interpret the rules, try offenders, and mete out punishment to the guilty. While most of the punishments are foolish stunts, an attempt is made to keep the atmosphere of the court above the quarrels of the lower classes and still properly discipline the Frosh.



Miller
WeismannJacobs
BoothBerry
CruzanRobinson
ShieldsTuttle
WheelerEvans
Ganssle

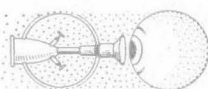
THE THROOPERS

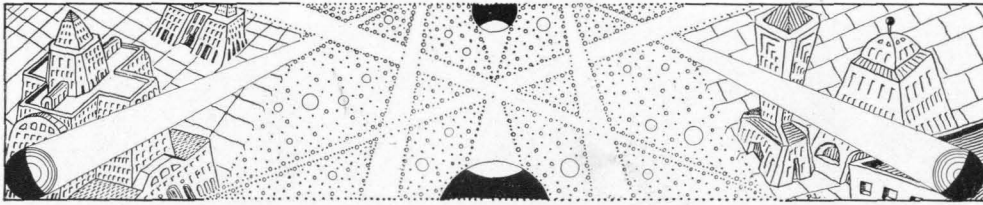
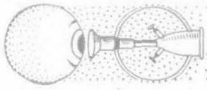
William Berry
Morton Jacobs
Elbert Miller
Edward Tuttle
Kenneth Robinson
Morton Shields

William Booth
Karl Ganssle
Fred Wheeler
Tom Evans
Walter Cruzan (2 terms)
George Weismann (1 term)

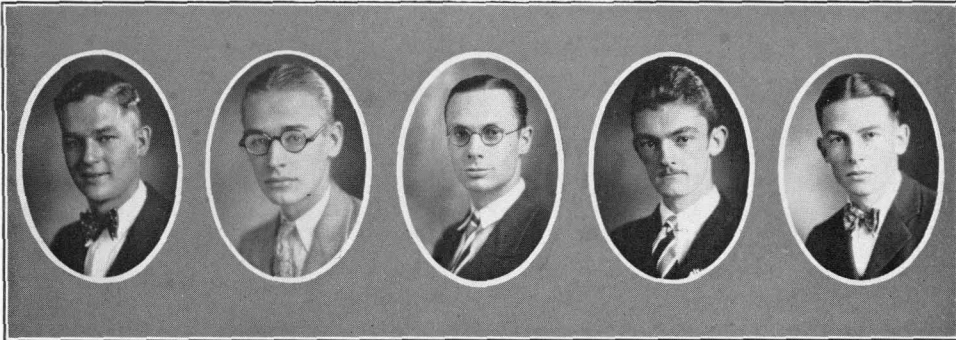
Only those men who have the interests of the student body at heart may hope to become members of the Throopers. This organization was formed but three years ago, yet it now stands out as one of the most important bodies on the campus. The very definite aims of the Throopers are these: To foster and increase college spirit; to strengthen and uphold the college traditions; to endeavor to promote friendly relations among the colleges; to see that all possible courtesies are shown to visitors. The fact that membership in the organization is definitely limited gives a peculiar distinction to those men who are fortunate enough to become members. The group is made up of but eleven men, six of these being members at large from the senior class, three being members at large from the junior class, and two being the president and yell leader of the student body. Among the definite duties of the Throopers are numbered the following: To provide for and have general supervision over all rallies, and all student body assemblies, and to supervise all student bulletin boards.

Among the actual accomplishments of the Club during the past year, in addition to their general task of keeping alive and active the spirit and enthusiasm on the campus, are found the many rally assemblies, the big Oxy Rally and pajamerino, the snappy program which was presented in the Desmond's radio contest, the basketball luncheon, and the very successful exchange programs with other colleges.





PUBLICATIONS



Gramatky

von Beroldingen

Kircher

de Camp

Kingman

THE CALIFORNIA TECH

The big new Tech under Linton von Beroldingen started out the year as a six column, four page paper, published once a week, instead of the customary five column paper published twice weekly as it was felt that there were not enough men on the staff to adequately put out a bi-weekly paper. The paper was unique in that there was no special sport section. However, later in the year a special sport section was re-incorporated and the paper enlarged to six pages.

The year did not bring forth as many special issues as usual. The Hot Rivet was omitted this year as it was felt that the editions of previous years had not contributed very materially to the reputation of the college. A large special football edition which contained nothing but football news was one of the highlights of the year. The Exhibit Day issue, the largest of all, was filled with many pictures and much propaganda to properly impress the visiting multitudes.

The success of the year may be attributed in large measure to the energies of the editor, the new plan of having the editor and manager elected the previous year so that they may gain experience under the old editor, and last but not least, to the unceasing interest of Prof. MacMinn and his journalism class.

Gunner Gramatky has had the difficult task of managing the finances of the Tech during the year, and the fact that the publication of the weekly resulted in a profit to the student body is indeed a tribute to Gramatky's ability as a business executive.

The unfortunate and untimely illness of Linton von Beroldingen necessitated the election of a new editor for the third term, and Rey Kircher was selected by the student body to assume the responsibility for the remainder of the year.





EDITORIAL AND REPORTORIAL STAFF

Sechler
Asst. Editor

de Camp
Columnist

Johnson
Reporter

Mason
Reporter

Langsner
Mgn. Editor

Ellis
Asst. Editor

Biddle
Reporter

Ely
Reporter

Tuttie
Columnist

Terry
Reporter

Miles
Reporter

Folsom
Reporter

Mauzy
Reporter

Lewis
Reporter

White
Reporter

Hutchinson
Reporter

Taylor
Sport Editor

Pierce
Reporter

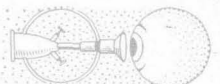
McMillan
Reporter

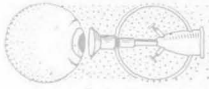
McMillan
Asst. Editor

Bosserman
Reporter

Bechtold
Reporter

Voak
Reporter





BUSINESS STAFF

Gilbert
Asst. Bus. Mgr.

Lewis
Asst. Bus. Mgr.

Kingman
Adv. Mgr.

Lynn
Copy Mgr.

Cutler
Cir. Mgr.

Weismann
Advertising

Kingman
Col. Mgr.

Asquith
Circulation

Effman
Advertising

Scott
Copy

Hillman
Copy

Murdock
Circulation

SPORT STAFF

Cline
Rep. & Cir. Mgr.

Perry
Reporter

Scott
Editor

D'Arcy
Reporter

Bode
Editor

Dunham
Reporter

Wheeler
Editor

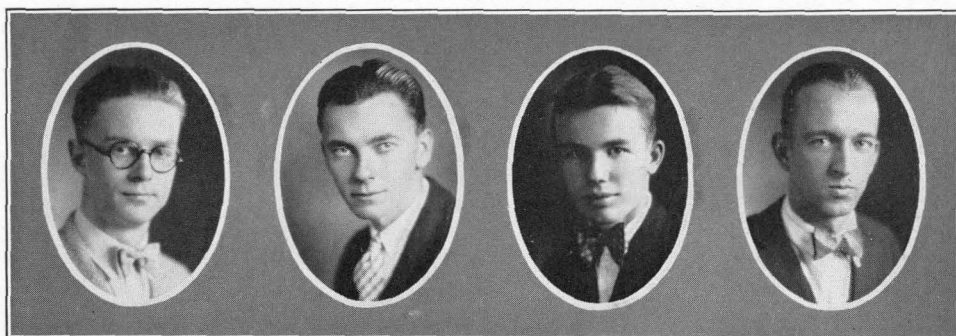
Horn
Reporter

Smits
Reporter Columnist

Zipser
Reporter

Jecker
Reporter





T. Robinson

Baker

Minkler

Perry

PUBLICITY STAFF

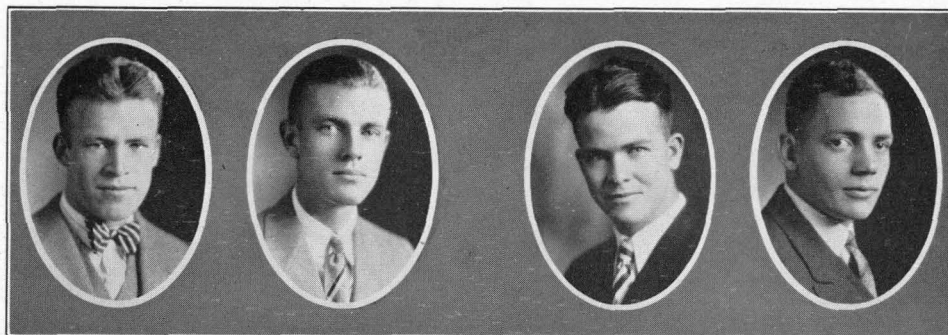
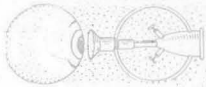
There is perhaps no more important branch of student effort than publicity work. Upon the Director of Publicity falls the responsibility of placing Tech before the public through the medium of the newspapers. Tech is sufficiently established in the Conference to merit the space given it each year by the Pasadena and Los Angeles papers. It is fortunate in this respect, and it is also fortunate in having a publicity department alert enough to see that copy is delivered to these papers for publication.

The California Tech serves a definite publicity function through its circulation. Its field, however, is limited to its circulation figure. A much larger group of readers is reached by the Publicity Department through its use of daily papers.

Throughout the past year, the department has been successful both financially and in the character of its work. Through the efforts of the department, official football programs were distributed at all home games. In addition, the games were advertised in Pasadena and Los Angeles through the medium of posters in the windows of business houses. These programs were so ably managed as to show a net profit to the student body of nearly fifty dollars, in addition to being an invaluable publicity vehicle. Having a follow-up spirit, the department has been no less vigorous in seeing that our other major and minor sports received adequate publicity.

The fact that the number of people taking advantage of the yearly opportunity to visit the Institute on Exhibit Days is steadily increasing, is in part due to the publicity given the event. Acting in conjunction with the Exhibit Committee, of which body the director was a member, the staff widely advertised the exhibit by means of letters and newspaper space.

This year Howard Baker was Director of Publicity, and with a staff consisting of True Robinson, Doug Perry, and Gordon Minkler, has seen to it that all available newspapers received copy regularly pertaining to sports and other student activities. To many it seems but a simple task to obtain newspaper space. We too often neglect to recognize the work involved in preparing the copy and delivering it on time for immediate publication. It is greatly to Howard's credit that we have had such adequate publicity.



Love

Cutler

D'Arcy

Cline

THE BIG T

A Big T which would be distinctive and also a financial success has been the goal toward which the editor and manager of the 1928 Annual have striven throughout the year. Under the leadership of Ralph Cutler, editor-in-chief, the former ideal has been realized to a gratifying degree. Careful planning and thoughtful execution have produced results, to the satisfaction of the entire staff, which are best expressed in terms of dollars and cents saved the student body. Russell Love has guided the finances throughout the year, and, in his capacity as business manager, has always held the financial welfare of the Tech student body as the primary consideration.

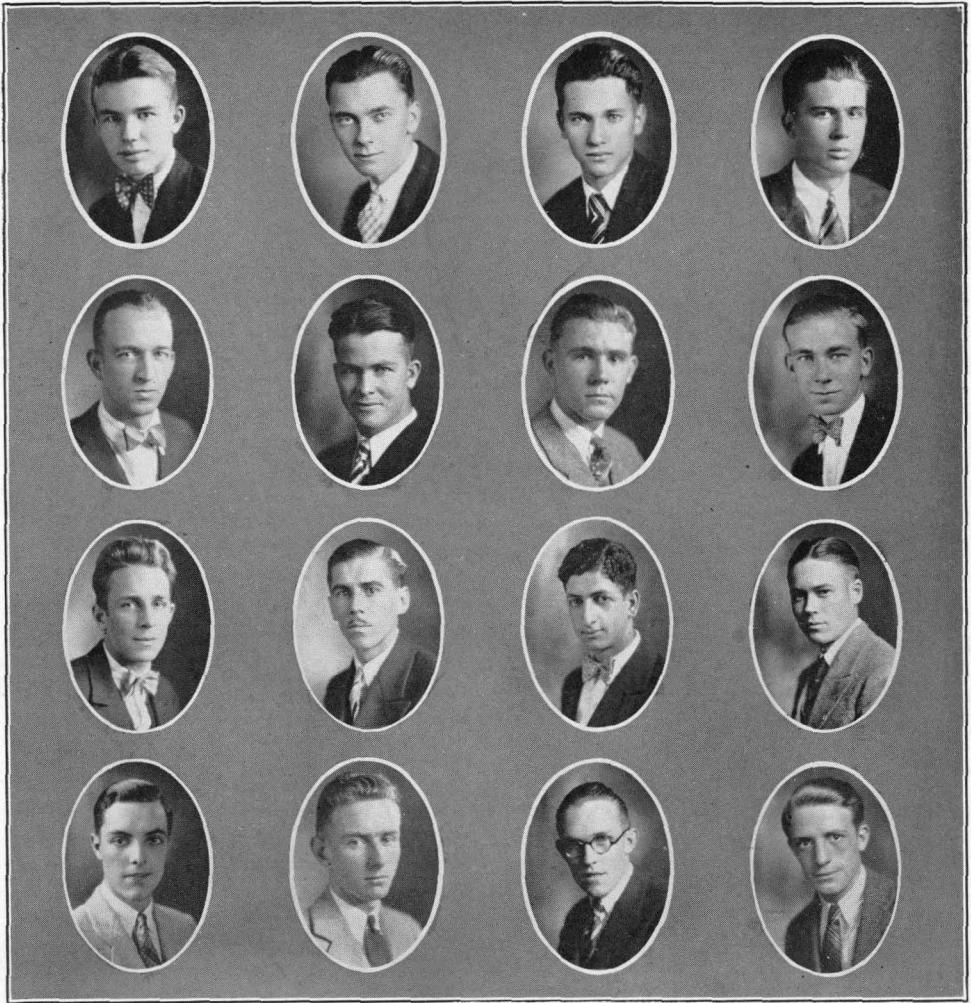
The publication of the Big T involves difficulties with which none but the editorial and managerial leaders are familiar. The unusually small circulation presents a problem which is seldom encountered in the publication of other year books of the same size, and necessitates very exacting arrangement of the book in order that the publication costs and the income shall balance. The actual cost of the publication of the 1928 book has been well over six dollars per copy, of which less than two-thirds has been furnished by subscriptions.

An effort has been made to visualize and portray, in the Big T of 1928, the life of a thousand years hence. An impressionistic glimpse of the dim future has brought to light many strange possibilities. From cover to cover the book stands for the latest in cover design, art, and general appearance.

Early in the third term of this year the student body elections for the 1929 Annual positions resulted in the choice of Nick D'Arcy and Fred Cline for the offices of editor and manager respectively. These men have noted the difficulties encountered by the present staff and are well prepared to profit by the many lessons learned.

The plan of electing men in the third term of the year preceding their year of actual service has proved its worth in many ways. Editor- and manager-elect are customarily included as associates on the staff of the current year book and thus have the advantage of intimate connection with the higher positions which they must fill.





EDITORIAL STAFF

Minkler
Associate Editor

Perry
Athletics

Zipser
Features

Bosserman
Business Staff

Baker
Associate Editor

D'Arcy
Associate Editor

White
Features

Hutchinson
Features

Langsner
Associate Editor

Wheeler
Associate Editor

Scharf
Features

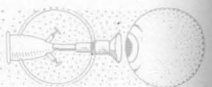
Gaylord
Features

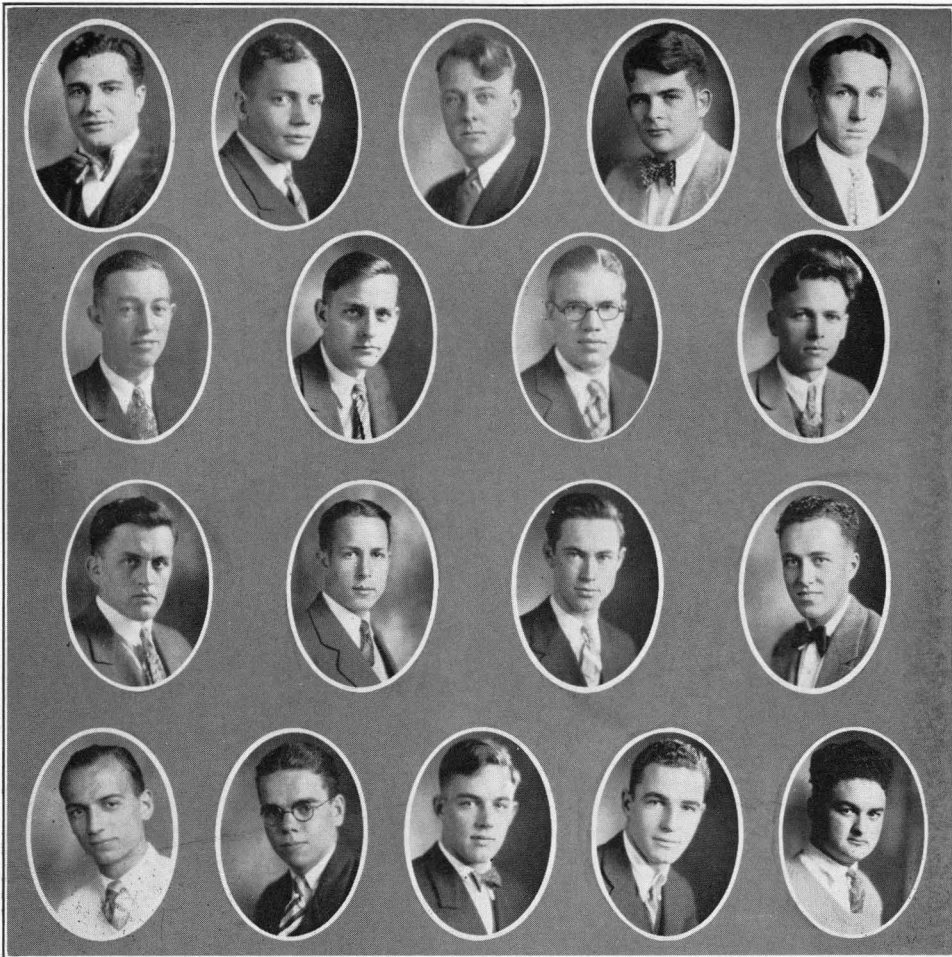
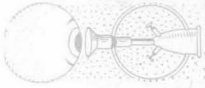
Taylor
Associate Editor

Whitman
Athletics Editor

Dunham
Athletics

Ingham
Athletics





BUSINESS AND PHOTOGRAPHIC STAFFS

Lufkin
Asst. Photo Editor

Cline
Photo Editor

Goodwin
Photo Staff

MacDonald
Snapshot Editor

Hatch
Photo Staff

Gunderson
Photo Staff

Thomas
Photo Staff

MacLane
Photo Staff

Preble
Photo Staff

Jones
Photo Staff

Sherman
Photo Staff

Asquith
Photo Staff

Weismann
Advertising

Allison
Advertising

Hacker
Asst. Bus. Mgr.

Folsom
Cir. Mgr.

Wern
Asst. Bus. Mgr.

Graffman
Advertising



876T

WEEKLY PUBLICATIONS

1918-1919: The Throop Tech, three column, four page; Douglass A. Stromsoe, Lester O. Warner. April to June, four column, four page; Sinclair Smith, Wynne B. Mullen, and Don McCreery.

1919-1920: The Throop Tech, five column, four page; Sinclair Smith, Wynne B. Mullen. February to June, Arthur J. Garfield.

1920-1921: The California Tech, five column, four page; Frederick A. Maurer, Charles W. Varney.

1921-1922: The California Tech, five column, four page; Charles W. Varney, Ben Benioff.

1922-1923: The California Tech, five column, four page; Max B. Alcorn, George I. Hickey.

1923-1924: The California Tech, five column, four and six pages, four special editions; Alfred A. Newton, Michael Brunner.

1924-1925: The California Tech, five Column, eight pages; six special editions, including Exhibit Day number of twelve pages; Caryl Krouser, S. L. Seymour.

1925-1926: The California Tech, five column, eight pages, six special editions, including Football Banquet and Exhibit Day issues; Alfred Schueler, Robert Bowman.

1926-1927: The California Tech, five column, bi-weekly four and six page issues, six special editions, including Football Banquet and Exhibit Day issues; Robert Heilbron, Richard Folsom.

1927-1928, The California Tech, six column, four and six page, four special editions, including Football Banquet and Exhibit Day issues of eight and fourteen pages; Linton von Beroldingen, Gunner Gramatky. April to June, Reymond Kircher, Gunner Gramatky.

ANNUALS

1916: The Throop Tech Annual, 55 pages; Kenneth W. Rich, Stanley C. Carnahan.

1917: The Throop Tech Annual, 55 Pages; I. N. Lawson, Jr., Walter Ogier, Jr.

1918: The Throop Tech Annual, 80 Pages; Retla Alter, Joseph F. Hartley.

1919: The Throop Tech Annual, 80 Pages; Gerald F. McMullen, Kenneth C. Kingsley.

1920: The Orange and White, 180 Pages; George O. Suman, Jr., Howard G. Vesper.

1921: The Big-T, 222 Pages; Arthur J. Garfield, Jr., Manton M. Barnes.

1922: The Big-T, 210 Pages; Howard G. Vesper, Ray W. Preston.

1923: The Big-T, 210 Pages; George T. McKee, Oliver B. Scott.

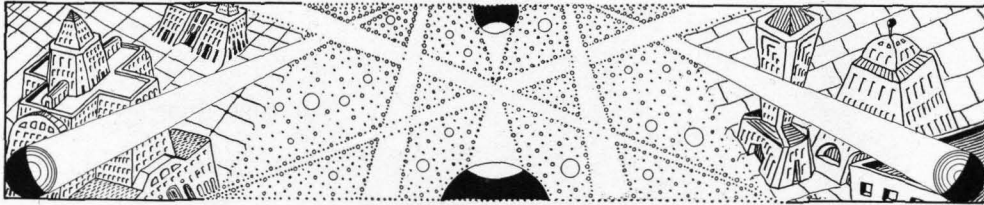
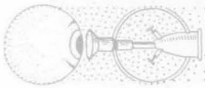
1924: The Big-T, 244 Pages; F. Douglas Tellwright, John E. Maurer.

1925: The Big-T, 274 Pages; Edwin F. Thayer, Wallace C. Penfield.

1926: The Big-T, 272 Pages; Wallace Penfield, Harry Cunningham.

1927: The Big-T, 240 Pages, Theodore C. Combs, Elbert Miller.

1928: The Big-T, 224 Pages; Ralph W. Cutler, Russell J. Love.



DRAMATICS



GILMOR BROWN

The extreme popularity of Tech dramatic presentations was never more clearly demonstrated than it has been during the 1927-1928 season. The drama has indeed become an institution in the life on the campus. Not only have the men of the Institute shown great interest in the development of the drama as a part of the student life, but also it is becoming more and more apparent that scores of lovers of the drama in Pasadena eagerly await the season of Tech dramatic performances.

The year just passed marks the third year of the directorship of Mr. Gilmore Brown, who is also the director of the Pasadena Community Playhouse, and the two major dramatic events of the year bear witness to Mr. Brown's unexcelled direction. The astounding growth of interest in dramatics at the Institute is in itself a tribute to the man who has been largely responsible for the high quality of the many presentations. This year is the second year that Mr. Brown has been officially retained by the Institute as director of public speaking and dramatics. That the acquisition by the faculty of the valuable services of Mr. Brown was an excellent move cannot be doubted in view of the increased effectiveness of the presentations which have been under his guidance. The successes attending recent Tech dramatic offerings furnish further proof of the worth of the movement sponsored by the faculty toward increasing interest in the humanities.



1928

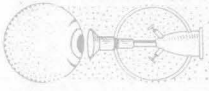
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In keeping with a tradition of five years' standing, the local chapter of Pi Kappa Delta presented another of the old classics when, in four performances given on November 16, 17, 18, the sparkling Roman comedy, *Menaechmi*, was offered to the play-loving public. Two years ago, another play written by the same author was chosen as the annual classic. *Captivi* enjoyed at that time a popularity which was unsurpassed previous to the recent presentation of *Menaechmi*.

The theme of *Menaechmi* centered around the difficulties resulting when Menaechmus, a traveler of the ancient world, is mistaken for his twin brother under circumstances which hardly lead to domestic tranquillity and happiness. The twins were ably represented by Tom Evans and Max Burke. Wendell Humphreys interpreted the shrewish wife of Menaechmus in a very amusing manner, Sprague deCamp donning the beard of antiquity with great success to become her father. A second important feminine part was taken by Sidney Zipser, who played the part of Erotium, the garish vamp of Rome. Walter Cruzan and John Mehl, in the roles of the parasite and the servant respectively, entertained the attentive audience on several occasions with their interesting interpretations of their parts.

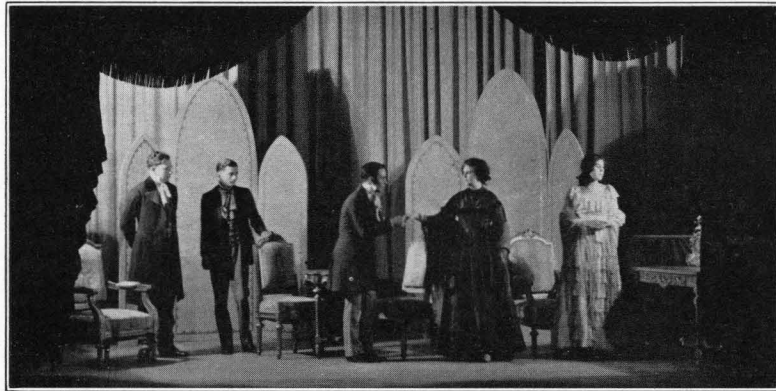




Period furniture in a cleverly arranged background furnished the colorful atmosphere which so greatly enhanced Balzac's "Mercadet," the fourth annual production of the Dramatics Club. The precarious life of a crafty French speculator was portrayed by John Mehl, who handled the part in a manner worthy of the highest commendation. The supporting cast distinguished itself by excellent work, and highly interesting, quite often amusing, characterizations. Special mention is due Russell Love for his admirable interpretation of Father Violette, the simple, money-loving creditor of Mercadet.

Two unusual features were involved in the presentation of the play. First, to most people, Balzac is known as a writer of books only. He has, however, numerous plays to his credit, of which number "Mercadet" was chosen as most suitable for the student organization. Secondly, the club departed this year from its usual custom of having Tech men take female roles, and was fortunate enough to acquire the services of four young women of Pasadena, who are connected with the Playhouse. The new policy proved to be more than successful.





MERCADET

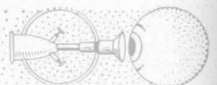
by Balzac

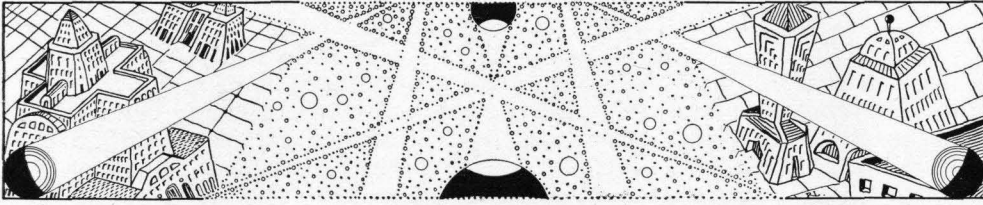
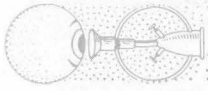
Mercadet, a speculator	John Mehl
Madame Mercadet, his wife	Miss Marguerite Freeman
Julie, their daughter	Miss Alicia Morrow
Minard, a clerk in Mercadet's office	Joe Foladare
Verdelin, a friend of Mercadet's	John Thatcher
Goulard	Lloyd West
Pierquin } creditors	Sidney Zipser
Father Violette }	Russell Love
de la Brive	Robert Sherman
Mericourt, a friend of de la Brive's	William Cutts
Justin, valet	Duroc Jecker
Therese, maid	Miss Lucille Johnson
Virginie, a cook	Miss Fredrika Monten

MENAECHMI

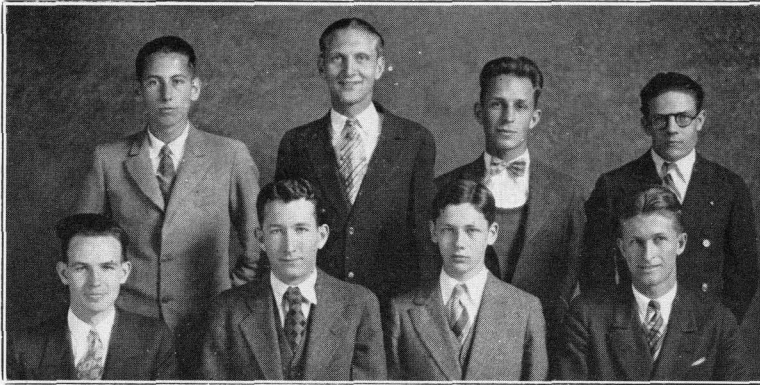
By PLAUTUS

Prologue	Lloyd West
Peniculus, a parasite	Walter Cruzan
Menaechmus, a young gentleman of Epidamnus	Tom Evans
Menaechmus (Sosicles), a young gentleman of Syracuse	Max Burke
Erotium, a courtesan	Sidney Zipser
Cylindrus, her cook	Larry Lynn
Messenio, slave of Sosicles	John Mehl
Maid, in the service of Erotium	Duroc Jecker
Wife of Menaechmus	Wendell Humphreys
Father-in-law of Menaechmus	True Robinson
A Doctor	William Hatch
Slaves	{ Raymond Cromley
	{ Merrill Tucker
	{ George James
	{ Kenneth Miles





FORENSICS



DEBATE

Although the total number of men making up the varsity debate squad was not as large as in past years, a very comprehensive and successful season resulted. Tech has reason to be proud of her skillful and persuasive debaters, many of whom have further years to perfect their logic. The final standing in the conference schedule shows Tech with a percentage of .500. The figure fails to tell the entire story, however, as victories were registered against the strong teams from Redlands and La Verne.

Much of the success is due to the splendid coaching of Mr. Ray E. Untereiner, who contributed so much toward keeping the enthusiasm of the debate squad at such a high level throughout the season. His keen analysis, and his timely aids in delivery and composition, have spoiled many an opponent's plans.

The problem of interesting men in forensic activity is more than usually complex at the Institute because of heavy curricular demands. It can be stated with a fair degree of safety, however, that the problem of selling one's self and one's ideas is made immeasurably easier by the self-confidence and poise acquired in forensic work. Budding engineers and scientists can profit greatly by participating in the activities of the department.

Although several of the men had not had much experience prior to this year, their work showed that concentration and ambition are worth a great deal, and that practice only is needed to produce the polished debater. Several valuable additions to the squad came from last year's freshman team, so ably



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coached by Robert Ross. The present freshman class is expected to furnish capable candidates for succeeding years.

In addition to five regular conference debates, several non-conference debates were engaged in which furnished valuable practice for the men. Audiences this past year have been slightly better than in the past, although much is yet to be desired in this field. At any rate, this year holds the distinction of having scheduled a record debate, the crowd attending which exceeded the limits of the fair-sized hall.

LA VERNE

Meeting La Verne College in the first conference debate of the season, Bob Evans and Tom Evans imposed superior argumentative skill upon their opponents and brought back a three to nothing judges' decision, favoring armed intervention in Latin America. International law was quoted profusely, and Robley's legal knowledge stood him in good stead.

WHITTIER

The Whittier debaters so successfully upheld the negative of the same question in the second debate as to win a decision over Les Scott and Ed Tuttle. Fiery speeches characterized this contest, the Engineers running a close second in emotional appeal and general excellence of case.

STANFORD

Whether the world is proceeding in the direction of peace as an outcome of the World War was settled beyond peradventure of doubt by six sincere debaters, three from Stanford University, and three from Tech, on the evening of March second. The Tech debaters were awarded a close judges' decision. Sidney Zipser, True Robinson and Kenneth Robinson defeated the McClintock twins, and Leon Carli of Stanford, repeating the performance of Ward Foster and Robert Ross of a year previous.

Knowledge of physics and chemistry was of benefit to the local men in destroying the concept of world movements, as eddies beneath an ostensibly quiet pool of water, enabling them to picture the water as turned to ice, and then considering the power of individual effort as being comparable to atomic energy. The picture was so graphic as to favorably impress the judges.

POMONA

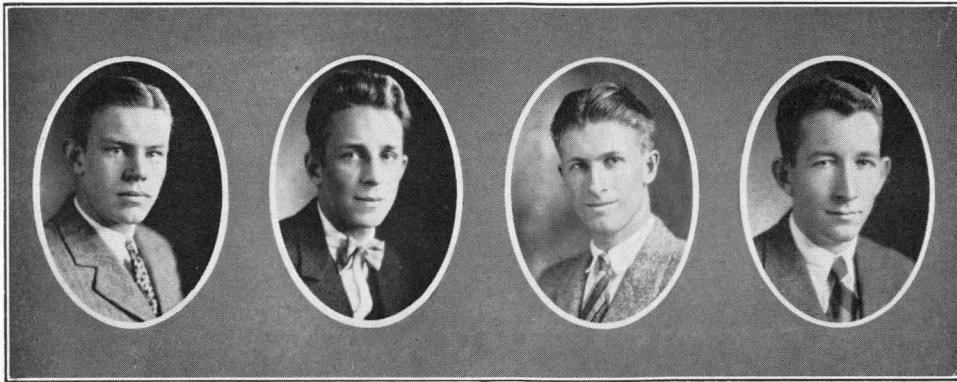
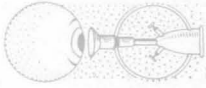
On March eighth, Kenneth Robinson and Andrew Wern were unable to overcome the strength of arguments presented by an able Pomona team. The visiting team received a complete majority of judges' votes, and went their way rejoicing.

REDLANDS

Two sophomores, Ray Cromley and Walter Wilkinson, succeeded by dint of many quotations in proving the soundness of their affirmative case against the Redlands University team. With but one year of debate behind them, these men displayed definite ability. The department is fortunate in that they will be on hand for two more years.

SOUTHWESTERN

A second non-conference debate, with Southwestern University, was won by John Hall and Wallace McMillan, upholding the affirmative of the conference question. Southwestern boasts a law school, which fact casts additional credit upon the Engineers who defeated its entry.



ROBINSON

ZIPSER

EVANS

SCOTT

EXTEMPORANEOUS SPEAKING

The Southern California Extemporaneous Speaking Contest was held at Redlands during the first term. Five contestants were entered by the Conference Colleges. Tech was represented by Fred Bewley. They all spoke on some phase of "The Power of the Press." We can well say that Tech was well represented in the contest, for Bewley copped second place, Redland's representative taking first place.

Kenneth Robinson, one of the representatives to the National Pi Kappa Delta Convention held in Tiffin, Ohio, ably forged through the opposition of eighty contestants to reach the semi-finals. He was only surpassed by six delegates who remained in the finals. Kenneth is graduating this year, and his loss will be greatly felt by the forensic squad.

ORATORY

The oratorical contest held at the National Pi Kappa Delta Convention at Tiffin, Ohio, was entered by Leslie Scott. He delivered a novel oration entitled "A Second Thought," a defense of capitalism. In the oration some new solutions for preventing poverty and vindicating capitalism on a sound basis were offered, but they did not seem to take well with the judges, as he was eliminated in the preliminaries.

Sidney Zipser, a sophomore, represented Tech in the Southern California Peace contest held at Pomona College. He competed against the strong competition of ten other speakers, and failed to place. This is, however, Zipser's first year in this field of activity, and holds promise as a coming orator.

The Conger Peace Prize Oratorical Contest is open to all Tech students, and each year many of them take this opportunity to expound their solutions for outlawing war. This contest is judged on the composition of the oration, and its delivery before the Student Body. The subject must relate to the peace of the world, and the winner receives a prize of fifty dollars. Last year Fred Bewley won the coveted prize over twelve other entries.

The closing of intercollegiate oratory for the year showed that Tech was well represented in this field. On April 26, at Whittier College, the representatives of the Southern Colleges met in the Annual Oratorical Contest. Leslie Scott, with his same original oration took second place to Dorman of Occidental, at the same time defeating Palmer of Redlands, who stayed in until the semi-finals at the National Convention.





FRESHMAN DEBATE

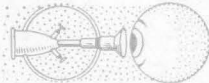
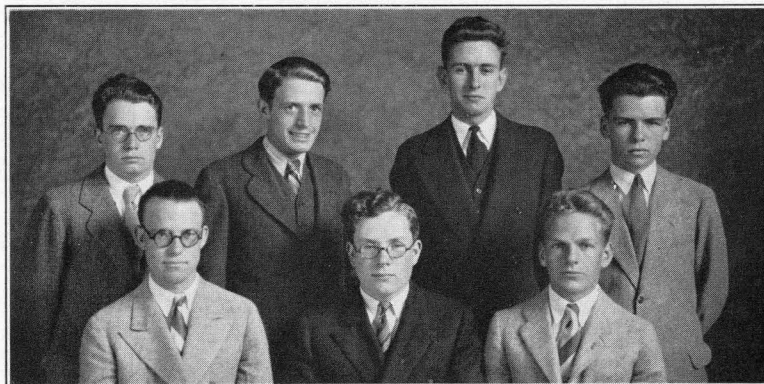
Occasionally there springs, full fledged, from the ranks of the upperclassmen, a man who, with but little training, makes a debater of more than ordinary ability. But this is a very rare occurrence, for public speaking requires, for its most perfect expression, a stage presence, an ability to "think on one's feet," which comes only after careful training and practice.

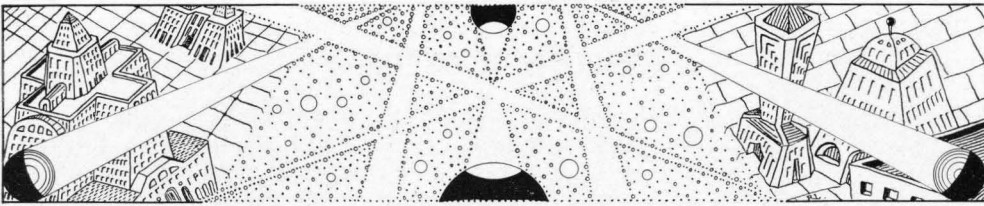
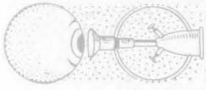
This year six freshmen, realizing the vast personal development to be thereby obtained, devoted themselves faithfully to the task of becoming debaters and have met with uniformly great success in this first step of the process. These men, William Cutts, Francis Hutchinson, John Hatcher, Herbert Ingham, Duroc Jecker, and Robert Jacobs, spent a considerable amount of time, before the debating season, in studying the theory of public speaking, in the debating course offered regularly in the Institute curriculum. They then entered the third term, during which the Conference debates were scheduled, with a good groundwork of knowledge upon which to build their debating technique.

The important task of coaching the freshman debaters is done, each year, by a senior, who is a member of the varsity debating squad, and who, in the opinion of those in charge of forensic activities, is capable of guarding the precious neophytes in their first steps upon the troubled waters. The position was filled this year, by Edward E. Tuttle, who devoted many hours of precious time to the development of the Institute's future forensic champions.

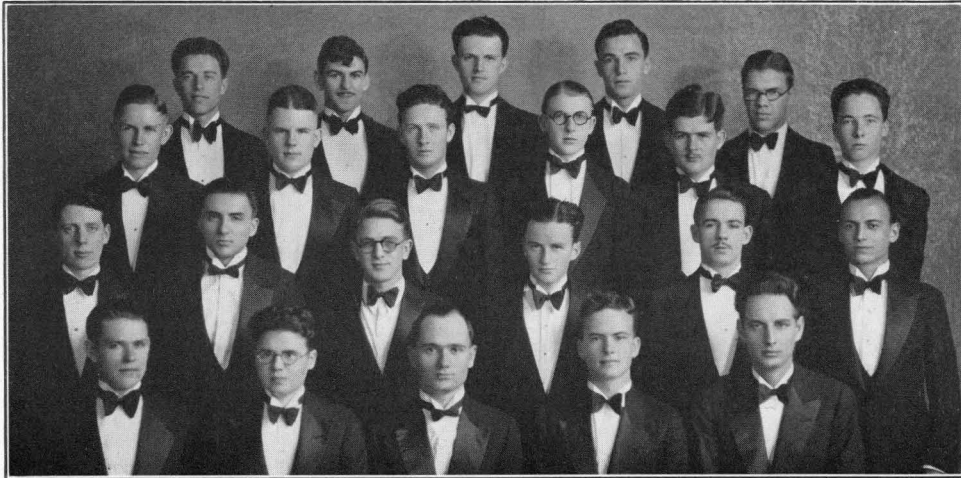
But all the coaching in the world would avail little if the debaters themselves did not possess inherent, latent ability, which needed but a means for expression. It is in this respect that this year's freshman squad is outstanding. The men composing it all possess a fundamental groundwork of information and knowledge, together with abundant mental capacity, which, when supplemented by the requisite technique, makes a debater.

At the time of this writing only part of the Conference debates had occurred. Nevertheless our freshmen acquitted themselves nobly. Ingham and Hatcher winning from Pomona, and Cutts and Jecker losing to Redlands, in debates the subject of which was "Resolved that there should be established a Department of National Defense, with a Secretary in the President's Cabinet."





MUSIC



Zahn	Keeling	McWilliams	Wern	MacLane
Prentice	Long	McGarry	West	MacDonald
Nelson	Springsholz	Booth	Crawford	Blohm
McFaddin	Holroyd	Johnson	Allen	Mesenkop
				Hawes
				Allison

THE GLEE CLUB

The Tech Glee Club is one of the most active organizations on the campus. It functions throughout the year, and from the beginning of the college year right up to the end, it has always had several engagements booked in advance.

At the very beginning of the year the Glee Club got under way with tryouts for membership. Under the able direction of Mr. Walter Ogier, Jr., who devotes much time and energy to the Club, the warblers were soon able to present the Student Body with a program.

The Glee Club serves as a sort of ambassador of good will to other colleges, taking part in exchange programs with most of the other colleges of the Southern Conference. The Club also appears before the student bodies of many of the high schools of Southern California, and often provides the professional entertainment at banquets of various organizations. In this way the Glee Club acts as one of the best advertisers of the college.

Several years ago Tech started the tradition of Intercollegiate Glee Club competition. This year the contest was held at Redlands, with Tech taking third place. Besides the regular concerts, the Glee Club presented the annual Home Concert May 24, in conjunction with the Orchestra.



MELODY MAKERS

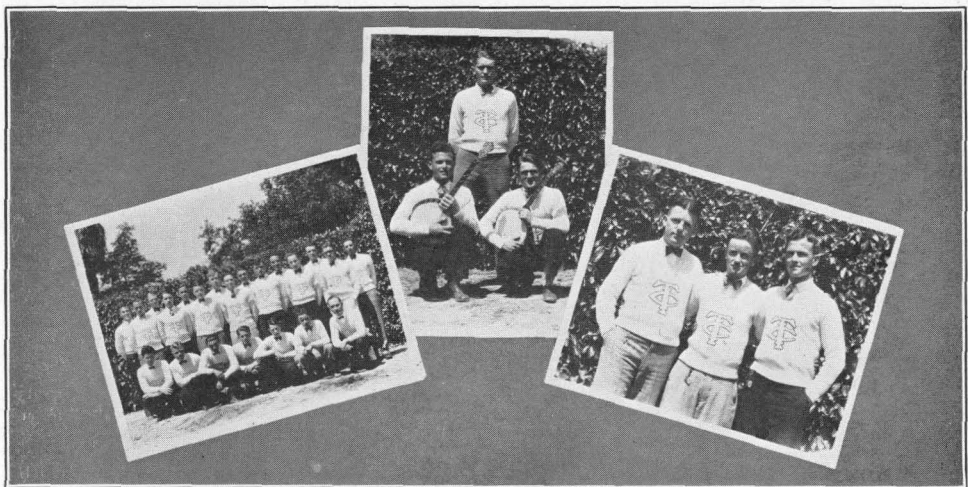
Tech has been more than fortunate throughout the past year in the number of entertainment groups at its disposal. In addition to the band and Glee Club, numerous smaller groups have been more than willing to contribute their time and ability to student body projects. The diversity of types of musical ability represented is as great as is to be found in many much larger institutions.

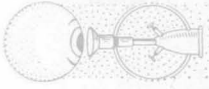
The banjo duo, composed of Booth and Allen, has for two years been the most popular of all Tech entertainment groups. The men have appeared on exchange programs, Glee Club concerts, radio programs, and at banquets in Pasadena and Los Angeles. They have given pleasure to the student body, and when playing away from the college, have represented us creditably.

The Tech Trio, featuring Frank Crawford, Spencer Long and Horace Allen, was organized at the beginning of last year. Since that time it has occupied a very definite place in the musical life of the college. They have added materially to the exchange and radio programs, and to the Glee Club appearances. All three are sophomores, and Tech can avail itself of their services for two more years.

Josef Johnson, in addition to being president of the Glee Club, is a baritone soloist of ability. A feature of the Glee Club appearances of the past several years has been his singing. It is fortunate that he returns next year, for it is rare that a man is found at Tech with as fine a voice.

A newcomer in the Tech musical world this year was Merrill Tucker, who performs on the harmonicas with great fervor and success. Merrill made his first appearance on the occasion of the Tech exchange program at Whittier, and has been much in favor since.





THE BAND

The Tech band performs a double function in our college life. It was first organized, some years ago, to lend aid to the army in its periodic marches across the Institute parade grounds. Its value as a student function was soon apparent, however, and since that time it has contributed greatly at games, and at student assemblies. During the games it provided music at opportune times, and the fancy dress parades presented between the halves were equal to any seen in the southland.

The membership is drawn from all of the four classes, and the fact that a good percentage of the members are upperclassmen indicates that it holds an important position in the lives of the students. The group is led by a student conductor, a plan adopted some years ago and which has proved very satisfactory. The bi-weekly practices are under the direction of Mr. Smith of Roosevelt High School, Los Angeles, to whom the student body is greatly indebted for his work in building up the organization. He has been of assistance in developing technique, and in drilling the band for parade work.

This year Harlan Asquith ably served the band as drum major, twirling his baton on any and all occasions on which the band appeared. Asquith capably led his men on military, football, and other parades, and deserves praise for his work. As director, George Taylor proved a hard and successful worker. He had the ability to direct the group, and displayed good judgment and originality in his choice of pieces. The other officers of the band were Otto Reinen and Bob Smith, who served as manager and librarian.



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ORCHESTRA

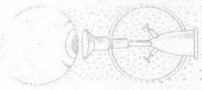
The orchestra declares its second year of existence a success. The members have enjoyed a year under the direction of Mr. Reginald Bland, who is director of music in one of the Los Angeles city high schools, and under the leadership of Louis Mesenkop, president of the orchestra.

Two years ago the orchestra was organized, largely through the efforts of Russell Thompson. The call for musicians was well answered, and we soon had a very presentable orchestra. It was discovered that quite a number of our engineers and scientists had musical ability, which they were able to keep up by playing with the orchestra.

Faculty members and graduates as well as students appreciated the opportunity offered by the organization. Much of the success of the orchestra may be ascribed to this support from all branches of the college personnel.

Of no less interest to the student body in general than to the players themselves, the orchestra was extremely well received on the occasion on which it appeared before the student body. The applause demonstrated that modern youth can still appreciate good music as well as jazz. On April 2, the orchestra presented an excellent program of classical and semi-classical music. On May 24, the Orchestra and Glee Club gave a joint program. The orchestra did not limit its presentations to our own student body, but also played for the students of other colleges.

Successful as the orchestra has been, its hopes for the future are for even more success and activity. Although only in its second year, the orchestra seems firmly established as an institution of the college, and, as times goes on, it is sure to rise in the esteem of the student body. It is hoped that in the future the orchestra will be able to present us with more than only one or two programs during the year.



BAND PERSONNEL

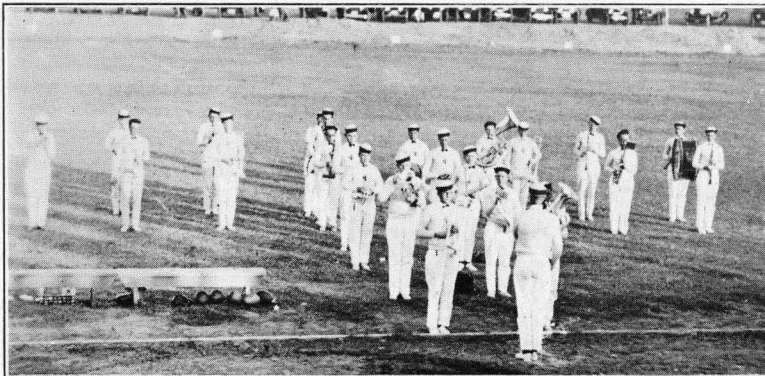
Harlan Asquith *Drum Major*
 George Taylor *Director*
 Otto Reinen *Librarian*

L. W. Bolles	Charles K. Lewis
Robert Bungay	Stanley Lohman
Deane Carberry	R. S. Lord
Bert Coupland	James Love
John Detweiler	Ross Morris
Stephen Dorman	John Mehl
M. L. Eaton	Ennis Olmsted
Kenneth Fink	Clyde Shields
Joseph Harker	Robert Smith
B. C. Haynes	Charles Stipp
H. D. Holmes	Thomas Tarbet
Harold Huston	Matthew Triggs
Ray Labory	Glen Webb

ORCHESTRA PERSONNEL

Louis H. Mesenkop *Director*
 George Taylor *Manager*
 Harlan Asquith *Librarian*
 R. B. Bland *Instructor*

VIOLINS	PIANO
V. C. Todorovitch	C. A. Springsholz
G. R. Crane	SAXOPHONE
H. A. Campbell	L. H. Mesenkop
R. K. Day	CLARINETS
A. A. Merrill	S. W. Lohman
M. M. Everett	George Taylor
W. M. Zaikowsky	FLUTE
CELLOS	R. C. Hawes
C. E. Gates	TRUMPETS
G. H. Cameron	J. S. Detweiler
BASS	M. L. Eaton
R. B. Bland	TROMBONE
J. Foladare	H. R. Asquith





876T

HAIL, ALL HAIL

Hail, all hail to thee!
Alma Mater dear,
'Neath thy banner
Seek we truth,
Learn thy precepts to revere.
Hail our orange T,
May our lives reflect that
We are the sons of California Tech.

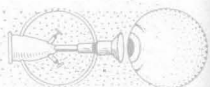
WEIGAND '27.

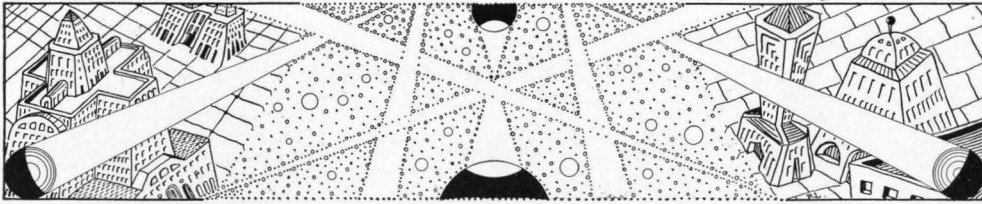
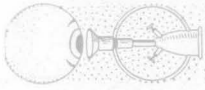
FOR C. I. T.

Men of brawn and science, we will shout defiance
To the foes of C. I. T.
By the gods who love us,—for the T above us,
We will cheer for C. I. T.

Forward, forward,—hard against the foe,
Onward, on, the fighting Beaver goes,
Sons of Tech around us,
Foes have never downed us,
Fight, fight, fight for C. I. T.

AUSTIN '28.





ORGANIZATIONS

HONOR SOCIETIES

The man of exceptional ability at Tech is certain of recognition in his chosen field of endeavor. The seven honor societies on the campus, Tau Beta Pi, Pi Kappa Delta, Varsity Club, Pi Kappa Sigma, Sigma Xi, Omega Xi Alpha, and the Drama Club, comprise in their membership only those who excel in college activities. Men whose talents are varied and who take interest in the student body are given the highest honor known to a Tech man—the Honor Key.

The California Beta Chapter of the national engineering honor society, Tau Beta Pi, was granted a charter in 1921. The qualifications for membership demand that the candidate not only make a high standing in his grades, but also that he have a considerable interest in extra-curricular activities.

The Tech chapter of Sigma Xi, the national honor society for the promotion of scientific research, was organized in 1926. This society admits undergraduates to associate membership only. If the associate member continues his scientific work after graduation he is admitted to full membership.

Pi Kappa Delta, the national forensic fraternity, is represented at Tech by the California Gamma Chapter, organized in 1921. Pi Kappa Delta includes in its membership men who have distinguished themselves in debating and all public speaking. Each year the fraternity presents a Greek or Roman play, and in general fosters interest in all forms of public speaking.

This year a group of Tech men assisted in the organization of a new journalism fraternity, Omega Xi Alpha. Tech is thus honored with the California Beta Chapter of this organization. Omega Xi Alpha promotes interest in campus journalism and general literary endeavor.

The Varsity Club is composed of those men who have won their letter in athletics. It works to maintain the present high standards of sportsmanship and to keep the Tech spirit a driving force in the Institute.

A group of plays is presented each year by the Drama Club. These plays are directed by Gilmor Brown, of the Pasadena Community Playhouse, and are an interesting addition to the college activities.

Pi Kappa Sigma is the local military fraternity. Its members are drawn from the ranks of those taking advanced military. Pi Kappa Sigma endorses and fosters military training at the college.

The Press Club is composed of those who have notably contributed to The California Tech and other college publications.

These various societies form a goal toward which men of Tech may strive. Their function is not only to provide this goal, but to awaken and maintain the interest of the student body in the various extra-curricular activities. In addition to their first purposes the societies give dances and promote interest in social affairs.



826T



HONOR KEY WINNERS



CLASS OF 1928

Ralph W. Cutler
Richard G. Folsom
Douglas G. Kingman
Charles F. Lewis
C. Gordon Minkler

William L. Olsen
Kenneth H. Robinson
True W. Robinson
J. Conrad Scullin
Edward E. Tuttle

CLASS OF 1929

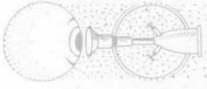
Howard E. Baker
Fred Cline
Thomas H. Evans
Kenneth E. Kingman

Laurence E. Lynn
Clyde E. Shields
George L. Taylor
George F. Weismann

CLASS OF 1930

Sidney Zipser





Cutler
Folsom
Evans

Baker

Tuttle
Lewis
Cline

Zipser

Olsen
K. Kingman
D. Kingman

Lynn

Minkler
Scullin
Shields

Taylor

T. Robinson
K. Robinson
Weismann



826T



TAU BETA PI



CLASS OF 1928

Maxwell F. Burke
 Robert I. Coulter
 Richard G. Crane
 Ralph W. Cutler
 Richard H. Duval
 Robley D. Evans
 Richard G. Folsom
 F. Gunner Gramatky
 George T. Harness
 Ray K. Jacobson
 Douglas G. Kingman

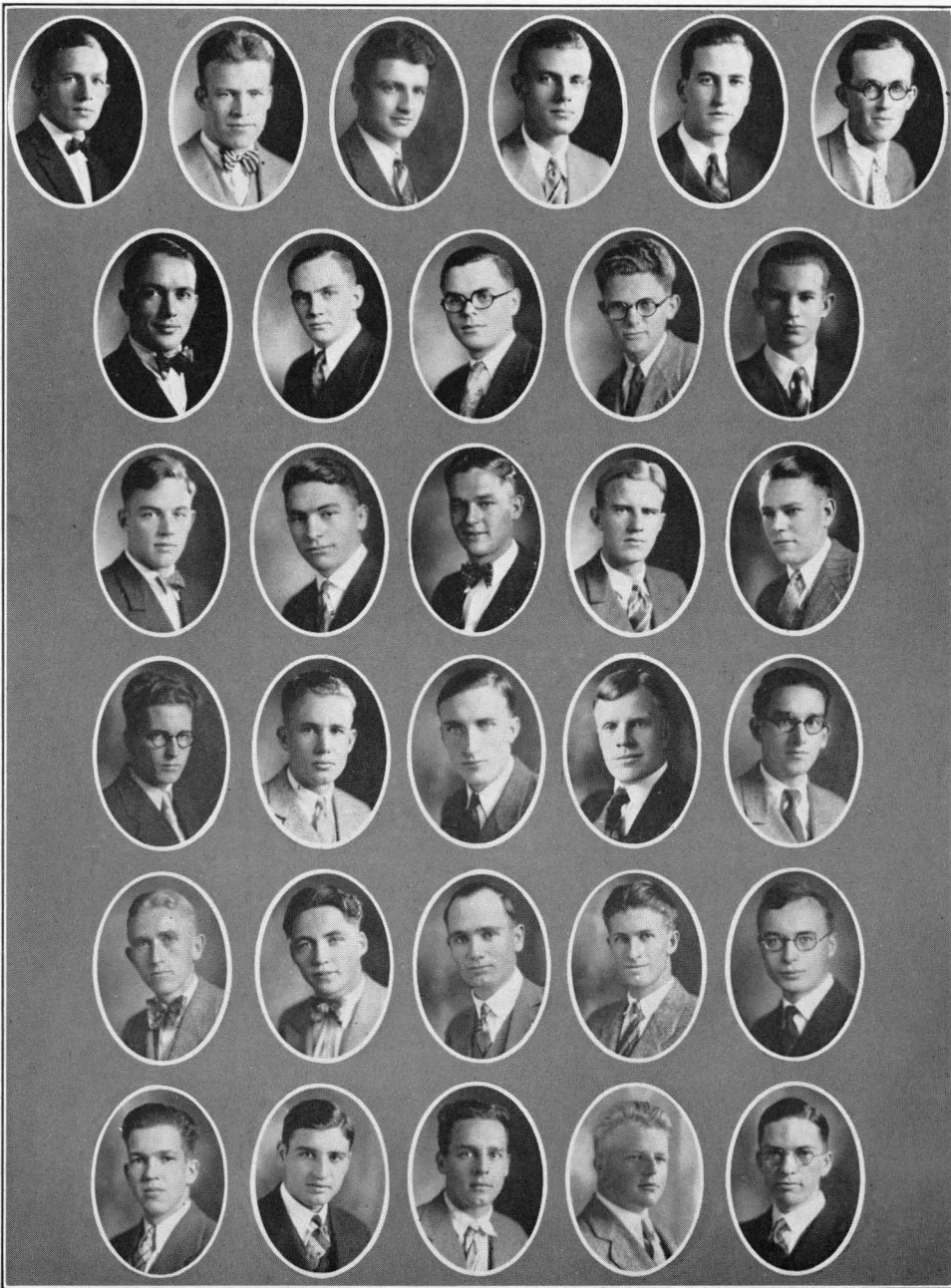
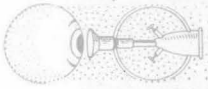
Charles C. Lash
 Albert E. Lombard, Jr.
 Russell J. Love
 Don E. McFaddin
 Edwin M. McMillan
 Henry E. Nash
 Nicolai K. Senatoroff
 Hampton A. Smith
 Edwin W. Templin
 John W. Thatcher
 Edward E. Tuttle

Paul B. Wagner

CLASS OF 1929

Emory L. Ellis
 Thomas H. Evans
 Josef J. Johnson
 Anthony J. Larrecq
 Philip G. Murdoch
 Albert E. Myers
 Firth Pierce
 Russell W. Raitt





Kingman
 Duval
 Folsom
 Burke
 Crane
 Raitt

Love
 Lombard
 Templin
 Smith
 Thatcher
 Larreck

R. Evans
 Coulter
 Gramatky
 Nash
 Johnson
 Ellis

Cutler
 Pierce
 Jacobson
 Senatoroff
 T. Evans
 Myers

Harness
 McMillan
 McFaddin
 Tuttle
 Wagner
 Murdock

Lash





826T

page one hundred fifty-two

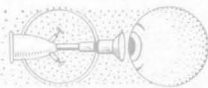
SIGMA XI

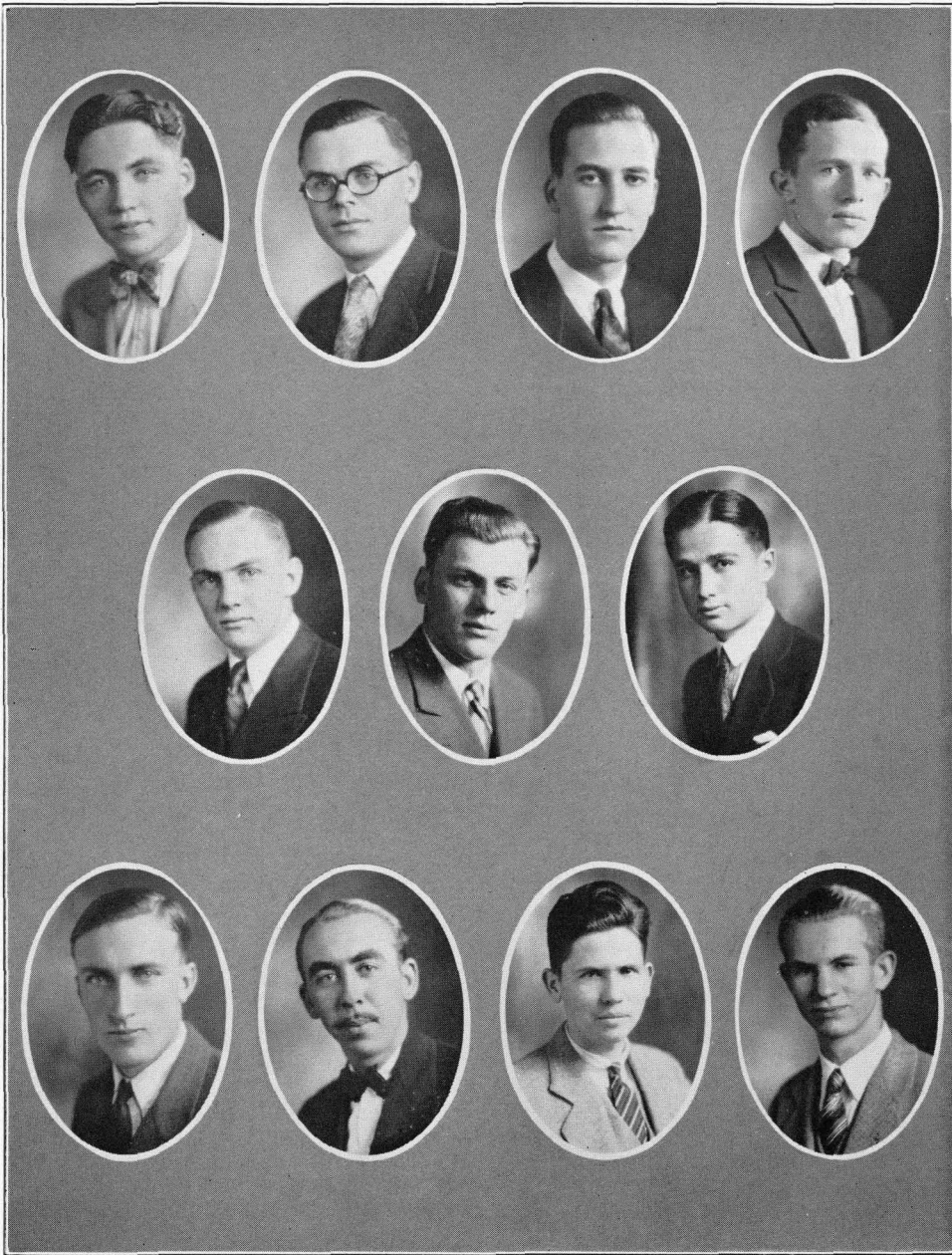
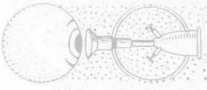
ASSOCIATES

Alexander Clark
Robert I. Coulter
George T. Harness
Lozelle C. Hookway

Edwin E. McMillan
Henry E. Nash
Joe William Schweinfest
John W. Thatcher

Douglas G. Kingman
Charles Coyle Lash
Albert E. Lombard, Jr.





Thatcher
Nash

Lombard

Coulter
Hookway

Clark

Harness
Solomon

D. Kingman
Schweinfest
McMillan





826T

PI KAPPA DELTA



FACULTY

Dr. John R. Macarthur
Mr. Gilmor Brown

Mr. Walter W. Ogier, Jr.
Mr. Raymond E. Untereiner

CLASS OF 1928

William L. Berry
Maxwell F. Burke

Robley D. Evans
Guy L. Chilberg

Kenneth H. Robinson

CLASS OF 1929

Frederick W. Bewley
Thomas H. Evans
Wendell L. Humphreys

Wallace A. McMillan
True W. Robinson
Leslie O. Scott

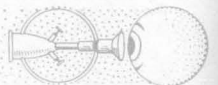
J. Conrad Scullin

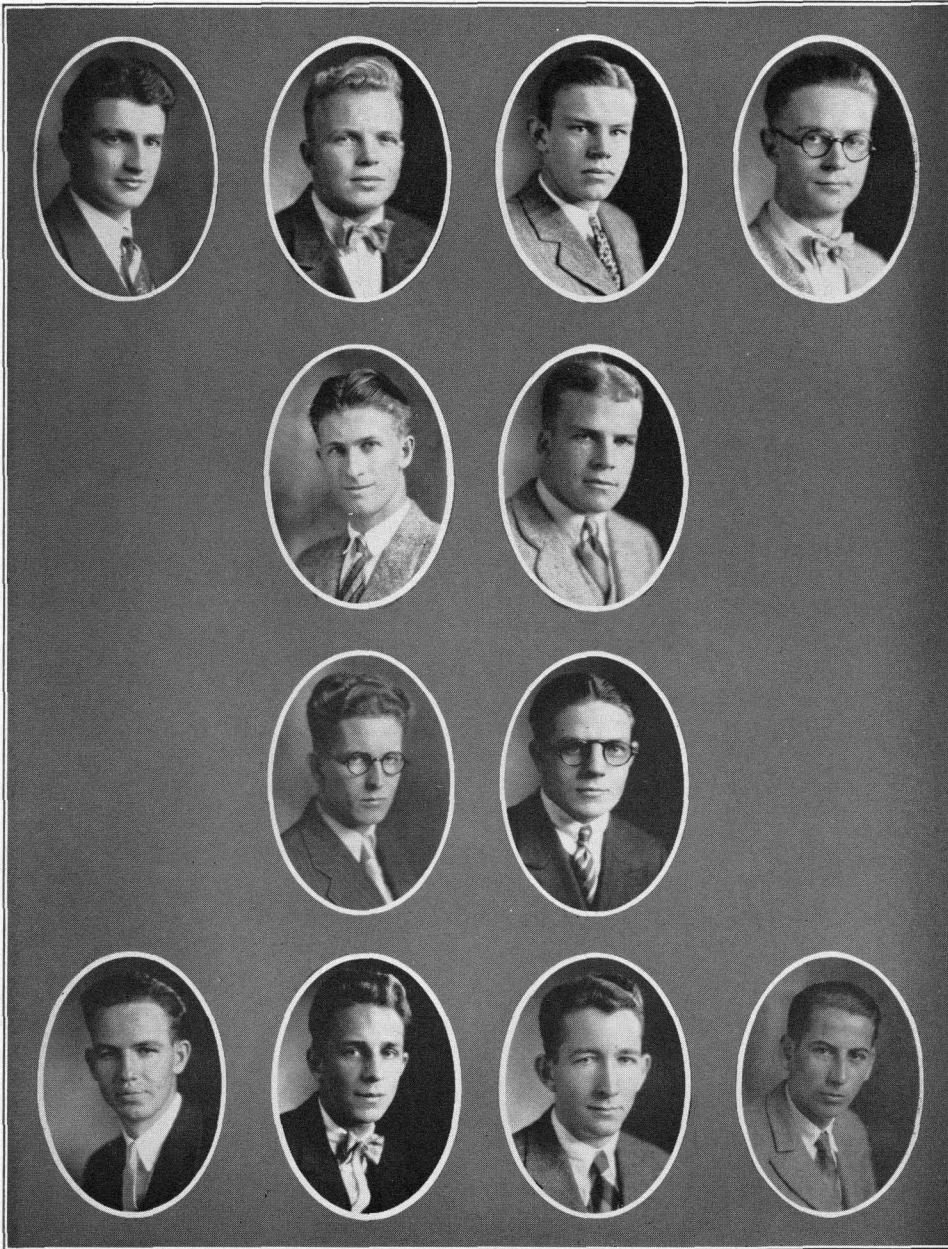
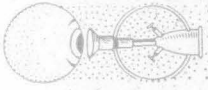
PLEDGES

Raymond A. Cromley
Kenneth L. Miles

Andrew W. Wern
Sidney Zipser

John L. Hall
Walter D. Wilkinson, Jr.





R. Evans
W. McMillan

W. Berry
T. Evans
M. Burke
S. Zipser

K. Robinson
G. Chilberg
K. Miles
L. Scott

T. Robinson
R. Cromley



PI KAPPA SIGMA



HONORARY MEMBERS

Lieutenant-Colonel Lewis M. Adams

Lieutenant Louis J. Claterbos

CLASS OF 1928

Guy L. Chilberg

William H. Mohr

Philip T. Durfee

Kenneth R. Crosher

Frank W. Bell

Edward Joujon-Roche

E. Hart Ross

Richard G. Folsom

Harold M. Huston

Charles F. Lewis

Douglas G. Kingman

F. Gunner Gramatky

Carmun C. Shaffer

William L. Olsen

CLASS OF 1929

Morton K. Shields

Fred A. Wheeler

Francis D. Bode

Charles E. Dickerman

Donald K. Olson

Kenneth E. Kingman

Sidney T. Exley

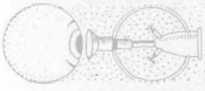
Lawrence J. Grunder

Elmer M. Muff

Hubert M. O'Haver

Joe A. Niles

Allen W. Dunn



Mohr
Durfee
Ross
K. Kingman
Exley

Huston
Shaffer
Niles
Muff
Dickerman

Joujon-Roche
Gramatky
Bell
Bode
Grunder

Chilberg
Lewis
Crosher
Shields
Wheeler

Folsom
D. Kingman
Olson
O'Haver
Dunn



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PRESS CLUB



HONORARY MEMBERS

Prof. W. D. Crane
Prof. L. W. Jones
Prof. C. K. Judy

Dr. A. L. Klein
Prof. G. R. MacMinn
Prof. Roger Stanton

CLASS OF 1928

Maxwell F. Burke
Ralph W. Cutler
Russell J. Love
Elbert E. Miller

C. Gordon Minkler
Edwin M. McMillan
Ernest E. Sechler
Edward E. Tuttle

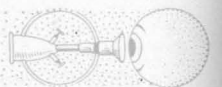
Linton P. von Beroldingen

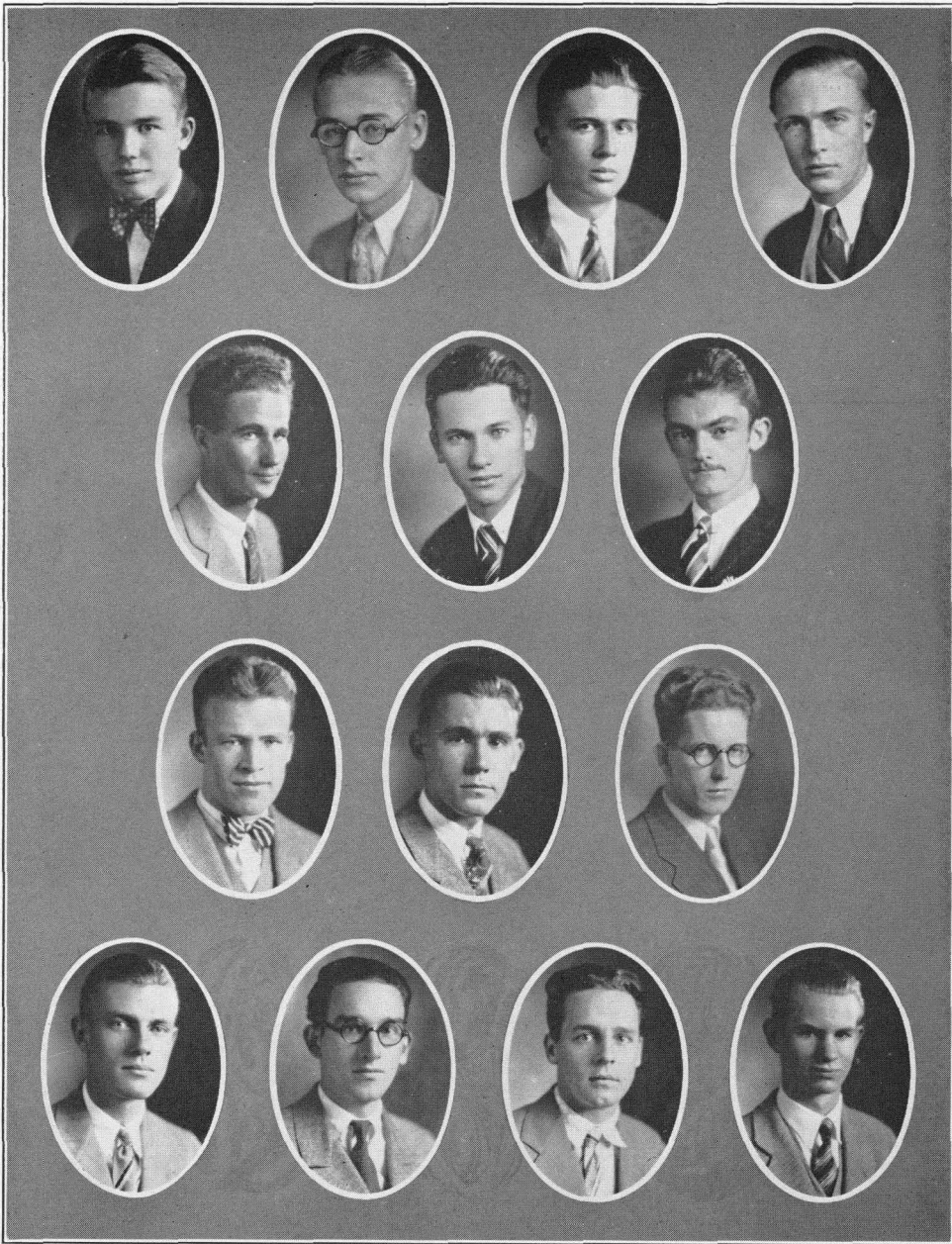
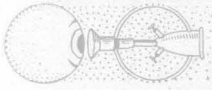
CLASS OF 1929

L. Sprague deCamp
Emory L. Ellis

George Langsner
George F. Taylor

Fred A. Wheeler





Minkler

von Beroldingen

Taylor

Sechler

Miller
Love

Langsner
Wheeler

de Camp
Burke

Cutler

Tuttle

Ellis

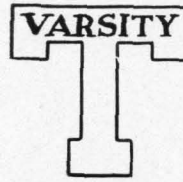
McMillan



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VARSIITY CLUB



CLASS OF 1928

Frank W. Bell
 Guy L. Chilberg
 Robert I. Coulter
 Kenneth R. Crosher
 Ralph W. Cutler
 Philip T. Durfee
 Richard G. Folsom
 Moe W. Gewertz
 F. Gunner Gramatky

Ray K. Jacobson
 Edward Joujon-Roche
 Douglas G. Kingman
 Charles F. Lewis
 Albert E. Lombard, Jr.
 William L. Olsen
 Hampton A. Smith
 Huston W. Taylor
 Baker Wingfield

CLASS OF 1929

Wilbert W. Baustian
 Alphonse Cramer
 Philip Cravitz
 John W. Daly
 Charles E. Dickerman
 Thomas H. Evans
 Sidney T. Exley
 James H. Keeley
 Kenneth E. Kingman
 Reymond J. Kircher
 G. Schild Lufkin

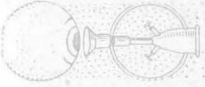
Laurence E. Lynn
 William H. Mohr
 Elmer M. Muff
 Hubert M. O'Haver
 Donald K. Olson
 Douglas B. Perry
 Homer C. Reed
 Clyde E. Shields
 Morton K. Shields
 Maurice H. Sinram
 Karl W. Westlund

CLASS OF 1930

Frank E. Alderman
 Tom G. Bernhardt

William H. Folckemer
 William Morton





Front: Chilberg, Reed, Folsom, Joujon-Roche, Mohr, Lombard, Lynn, C. Shields, Cravitz.
Second: Exley, Crosber, Gramatky, Bell, Keeley, O'Haver, Cramer, K. Kingman.
Back: D. Kingman, W. Olsen, Daly, Muff, Perry, M. Shields, Wingfield, Taylor, Durfee.





DRAMATIC CLUB

HONORARY

Gilmor Brown
C. K. Judy
W. D. Crane

G. R. MacMinn
L. W. Jones
Roger Stanton

CLASS OF 1928

Bennett Preble
Russell Love
True Robinson
Maxwell Burke

Robley Evans
Linton von Beroldingen
George Kaneko
Kenneth Robinson

CLASS OF 1929

Fred Bewley
Merrill Tucker
John Daly

Laurence Lynn
Tom Evans
Lloyd West
Walter Cruzan

CLASS OF 1930

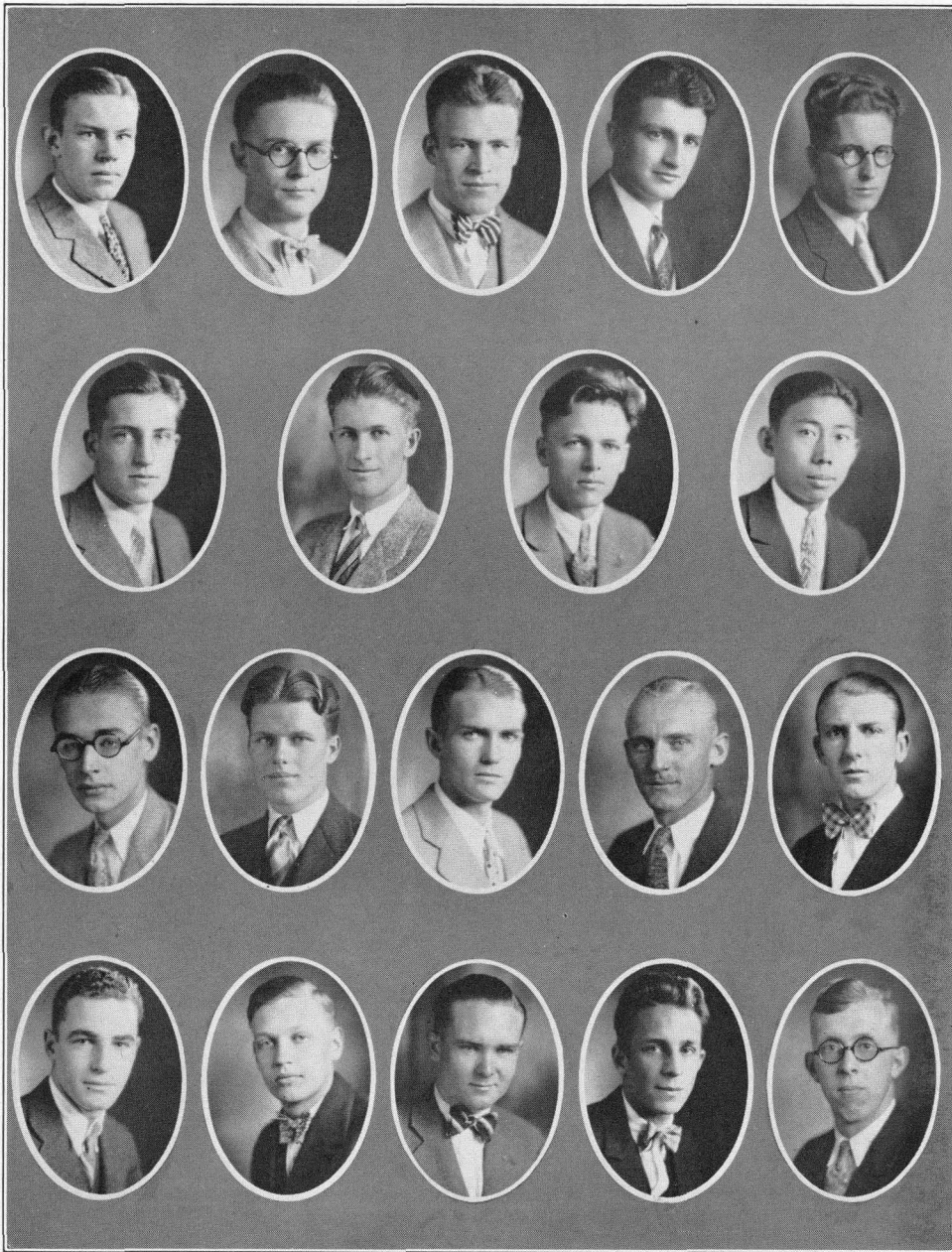
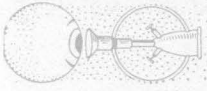
Walton Hubbard
Andrew Wern

Sidney Zipser
Wendell Humphreys
Paul Ely

CLASS OF 1931

John Mehl





K. Robinson
Daly
von Beroldingen
Wern

T. Robinson
Lynn
Humphreys
T. Evans

Love
Tucker
Mehl

R. Evans
Preble
Cruzan
Zipser

Burke
Kaneko
West
Ely



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OMEGA XI ALPHA
BETA CHAPTER



Founded 1928

CLASS OF 1928

Edward E. Tuttle
Linton P. von Beroldingen
S. B. Biddle, Jr.

Gordon Minkler
Ralph W. Cutler
Russell J. Love

Edwin McMillan

CLASS OF 1929

L. Sprague de Camp
Emory Ellis
George Langsner

Reymond Kircher
Fred Wheeler
Nicholas D'Arcy

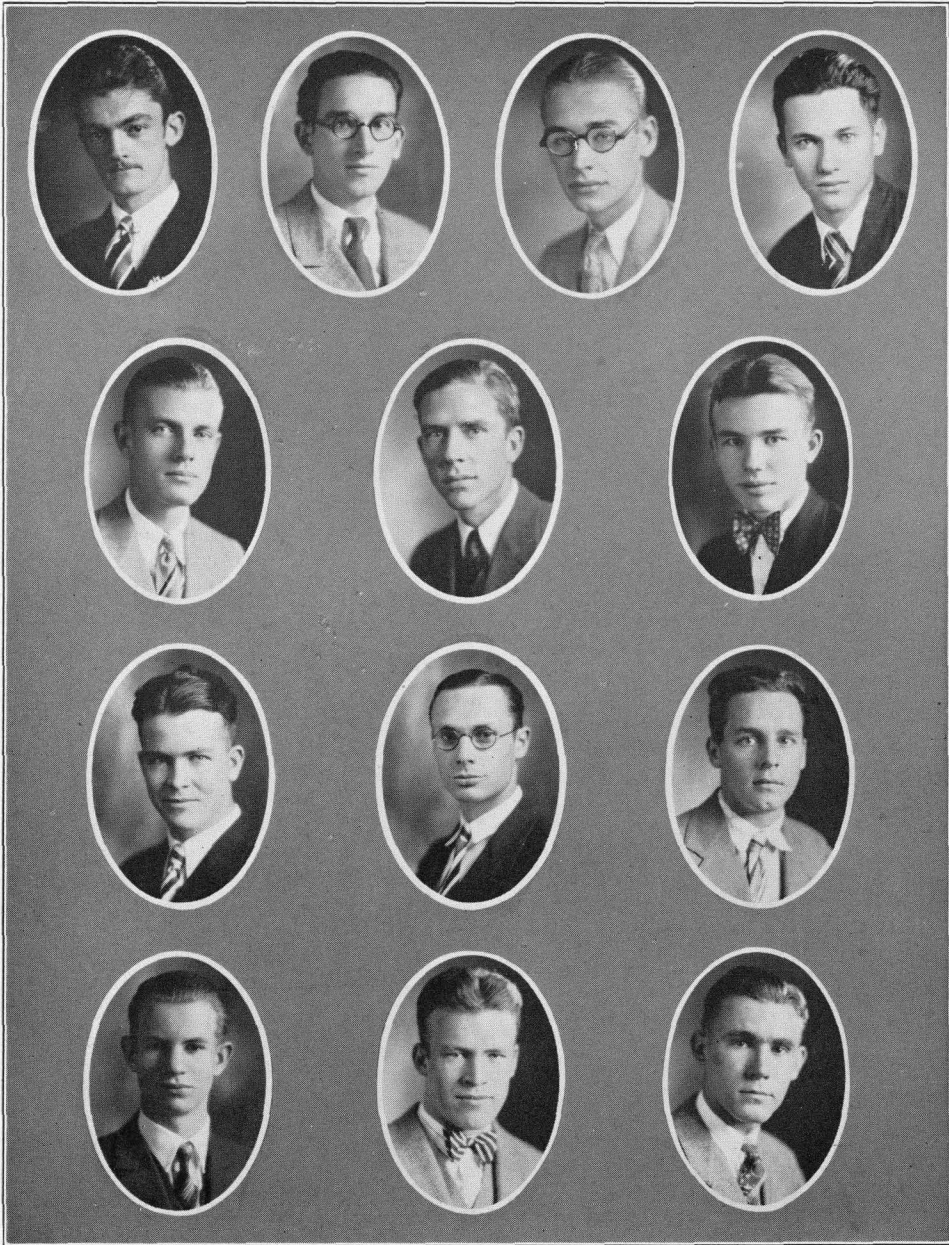
PLEDGES

Frederick R. Cline
Frederick S. Scott
Howard E. Baker

Sidney Zipser
Ira C. Bechtold
Charles K. Lewis

James W. Dunham





de Camp
Cutler
D'Arcy
McMillan

Tuttle

Biddle
Kircher
Love

von Beroldingen

Langsner
Minkler
Ellis
Wheeler





PROFESSIONAL SOCIETIES

The diversity of interest among Tech men has resulted in the organization of societies and clubs representing most of the branches of engineering and science. Three of these are student chapters of national organizations. These clubs serve to bring students whose interests lie along similar lines into intimate contact with each other and with men who have done outstanding work along the same lines. At the periodical meetings of these clubs, talks are usually given, illustrating the work being done and problems faced in the industrial world of today.

The American Society of Civil Engineers, the American Society of Mechanical Engineers, and the American Institute of Electrical Engineers are national organizations which have student chapters on the campus. These societies are especially able to keep in contact with all that is going on in their respective spheres all over the nation.

The Aero Club is composed of a group of students who are vitally interested in the developments of the aeronautical industry. This year they were especially active and made many trips of inspection to all the local aeroplane factories and also one to San Diego.

The members of the Geology Club meet for discussion of advances made in geology and related sciences. Science and research are stressed rather than practical applications of geology to industry. The club boasts a large faculty and graduate membership.

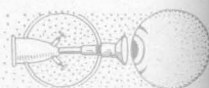
The Chem Club is an organization of future chemical engineers and chemists. Each week they hear a talk on some subject intimately connected with their future work. Besides these meetings, the Chem club holds several social functions and theatre parties during the year.

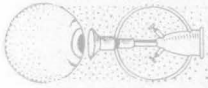
The radio "bugs" of the campus belong to the Radio Club. They conduct experiments in transmission and reception and have a licensed sending station over in the "Ark," whose call letters are 6UE.

Never let it be said that Tech men have no other but technical interests, for there are several active clubs whose functions are social rather than technical.

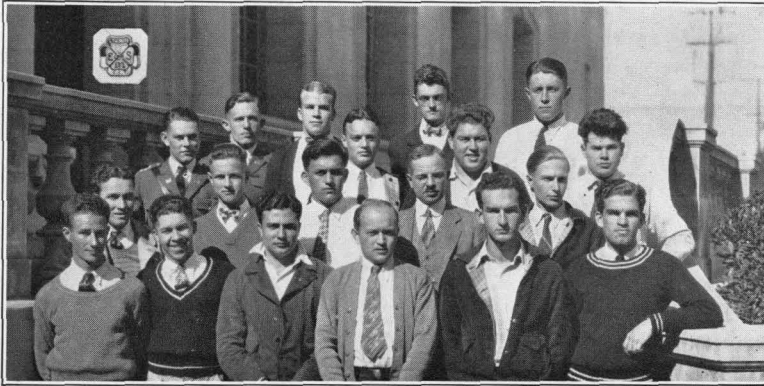
Each year the inhabitants of the Dormitory organize the traditional Dorm club. This year, owing to the new policy of allowing only freshmen to live in the Dorm, the club has become an exclusively freshman organization; however, the lowly ones kindly consented to let the upperclassmen share in their pleasures, in that they put on several very enjoyable dances during the year.

"The universal brotherhood of man" is the belief of members of the Cosmopolitan Club. It is a member of the Southern California Federation of Cosmopolitan Clubs, and as such, holds joint meetings and banquets with other colleges, at which international and racial problems are discussed.





AMERICAN SOCIETY OF MECHANICAL ENGINEERS
(Student Chapter)



Lawrence Grunder *President*
Ernest Sechler *Vice-President*
Douglas Kingman *Sec.-Treas.*

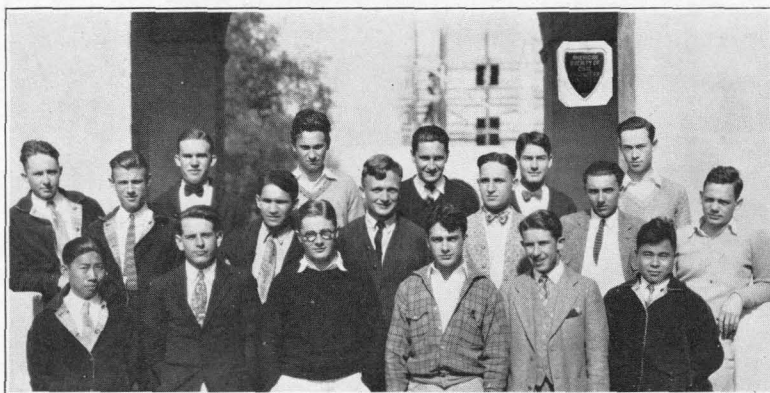
T. H. Brighton
Wilbert Baustian
Guy L. Chilberg
Sprague de Camp
Philip Durfee
Lawrence Grunder
Ezra Hollister
Morton Jacobs
Harlen Jones
Douglas Kingman
L. V. Leonard
Charles F. Lewis
Spencer W. Long
Schild Lufkin
Don E. McFaddin
Albert C. Reed
Walter Righter
K. F. Russell
Ernest Sechler
Frank Thompson
Frank Walton
Dudley L. White





AMERICAN SOCIETY OF CIVIL ENGINEERS

Student Chapter

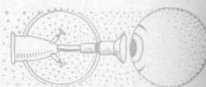


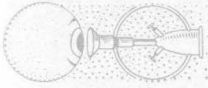
Ralph W. Cutler President
 William Mohr Vice-President
 Morton K. Shields Secretary
 Moe W. Gewertz Treasurer

Harlan Asquith
 William Berry
 Robert Buchanan
 Maxwell F. Burke
 Frederick Cline
 Philip Cravitz
 Nick D'Arcy
 James Dunham
 Monroe Everett
 John Gilbert
 Gunner Gramatky
 George Kaneko

George Langsner
 Donald Nichols
 Francis Noel
 Samuel Olman
 William Olsen
 Julien Phillips
 Kenneth Robinson
 Carmun Shaffer
 Clyde Shields
 John Skafte
 Charles Springsholz
 Tomizo Suzuki

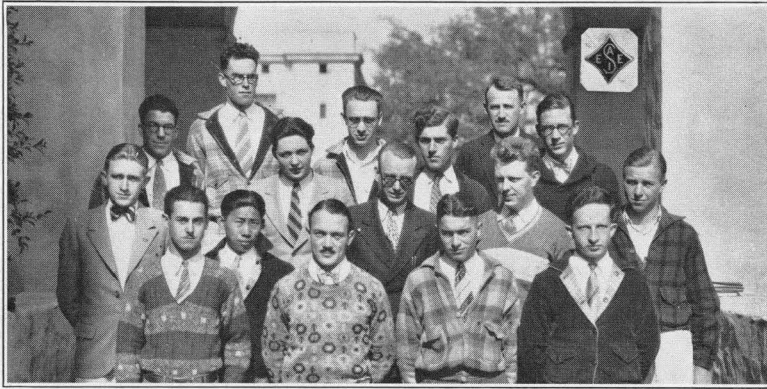
William Hacker





AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

Student Chapter



John W. Thatcher President
 Louis H. Mesenkop Vice-President
 Jacobson G. Kuhn Secretary-Treasurer

Knowlton R. Birge
 Russell J. Love
 George S. Kaneko
 Lloyd E. Swedlund
 Hugh A. Hossack
 Allen W. Dunn
 Ellwood H. Ross
 Ralph C. Weber
 Edwin W. Templin
 Evan E. Pugh
 Donald T. Tarr

George R. Crane
 Stratford B. Biddle, Jr.
 Roy F. Slocum
 Masahiro H. Nagashi
 Richard H. Duval
 R. A. Caldwell
 John S. Goodwin
 Fred R. Wilson
 R. I. Coulter
 W. M. Goodall
 G. T. Harness
 Luther J. Eastman





AERO CLUB

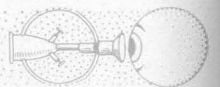


A. Frank Walton President
 L. Sprague deCamp Secretary-Treasurer

Maynard M. Anderson
 Homer C. Althouse
 Benton R. Baldwin
 William Baker
 Charles A. Bosserman
 Wilbert W. Baustian
 H. Allen Campbell
 Herbert H. Deardorff
 Kenneth M. Fenwick
 Richard G. Folsom
 Lawrence J. Grunder
 A. Jack Grafman
 James M. Gerschler
 Cliver Harmon
 Francis Hutchinson
 Thomas T. Hiyama
 Lyman Holdaway

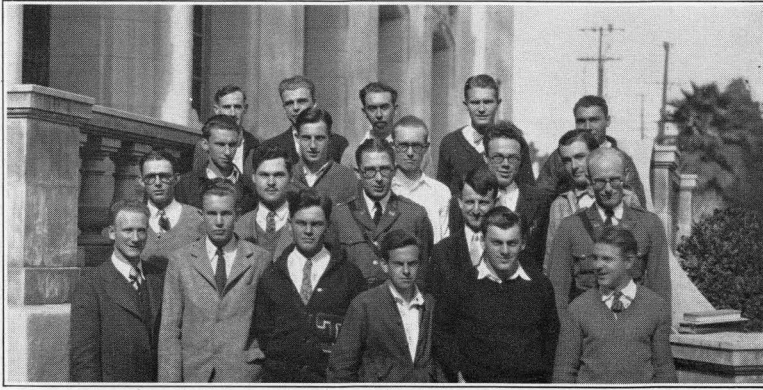
G. Schild Lufkin
 Leonid V. Leonard
 R. Marshall Lehman
 Roger M. Musset
 Kenneth L. Miles
 M. Howard Nagashi
 Firth Pierce
 John C. Shields
 Michael Silverman
 Clinton H. Stevenson
 Ferdinand E. Strauss
 Frank W. Thompson
 Thomas V. Tarbet
 Merrill D. Tucker
 Dudley L. White
 Walter D. Wilkinson
 Karl Westlund

T. Robert White





GEOLOGY CLUB



Dr. J. P. Buwalda
Dr. W. P. Woodring
Dr. Chester Stock
Dr. Hudson
Dr. Hoots
E. L. Furlong
Frank Bell
Bert Beverly
Francis Bode
Alexander Clark
Thomas Clements
John Daly
Rollin Eckis
Lewis Gazin

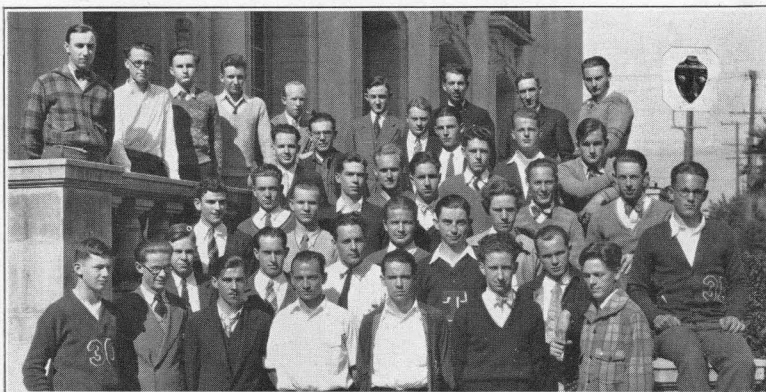
Clarence Haserot
Lozell Hookway
Kenneth Lohman
Ralph Lupher
John Maxson
Bernard Moore
John W. Patterson
Edward Joujon-Roche
James Reilly
Austin Schroter
Edward Sandberg
Layton Stanton
Merrill Tucker
Earl Turner

Thomas Southwick



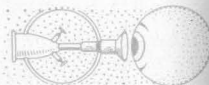


CHEM CLUB

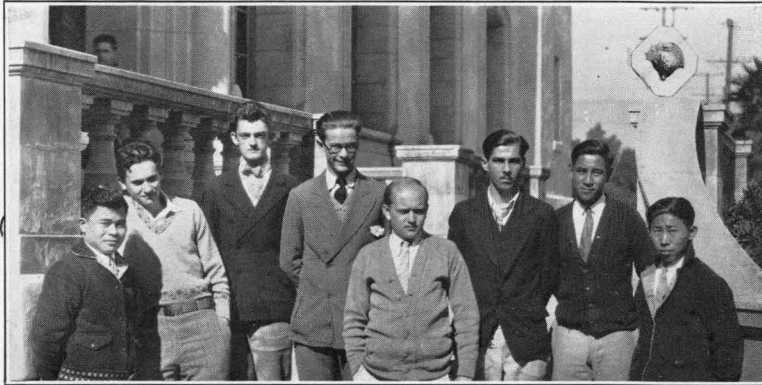


President Donald Allison
First Vice-President Bennett Preble
Second Vice-President Robert J. White
Secretary Wallace McMillan
Treasurer Kenneth Lohman

Ira C. Bechtold	Edwin M. McMillan
Tom Bernhardt	Albert E. Myers
Francis Bode	Harland R. Moss
Robert Boyee	Ross E. Morris
Lawrence Bolles	Theodore S. Mitchel
Bert V. Brasher	Daniel A. Newcomb
Clyde L. Blohm	Otto F. Reinen
Norman F. Doherty	Willard G. Reynard
Stephen C. Dorman	Roger T. Robinson
Emory L. Ellis	Alfred Rummelsburg
Elliott B. Fitch	Dante H. Sarno
John D. Hamilton	Hiram F. Sherer
Raymond W. Hoeppe	Thomas V. Tarbet
Roland F. Hodder	Everett G. Trostel
Kenneth E. Kingman	Thomas R. White
Truman H. Kuhn	Walter D. Wilkinson
Francis N. Laird	Robert W. Wilson
	Edward W. Leonard



COSMOPOLITAN CLUB



George S. Kaneko *President*
 George Langsner *Vice-President*
 Henry H. Kubow *Secretary*
 Thomas Hiyama *Treasurer*

P. Y. Chow
 L. Sprague deCamp
 K. H. Lau
 Leonid V. Leonard
 F. C. Martin
 Howard Nagashi
 True Robinson
 Charles Schweiso
 Tomizo Suzuki
 Katsunoshin Suzuki
 Victor D. Todorovitch
 Philip Fay Ung
 Robert J. White
 Rubin Widess



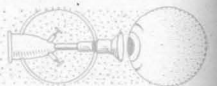


RADIO CLUB



Louis H. Mesenkop *President*
Alfred E. Towne *Vice-President*
Wilfred L. Slick *Secretary-Treasurer*

Lloyd W. Russell
Beverly F. Fredendall
George W. Read
Sidney B. Pickles
Edson C. Lee
John C. Rapp
Frank W. Thompson
Robert L. Sherman
Glenn Myers, Jr.
Willis H. Clark, Jr.





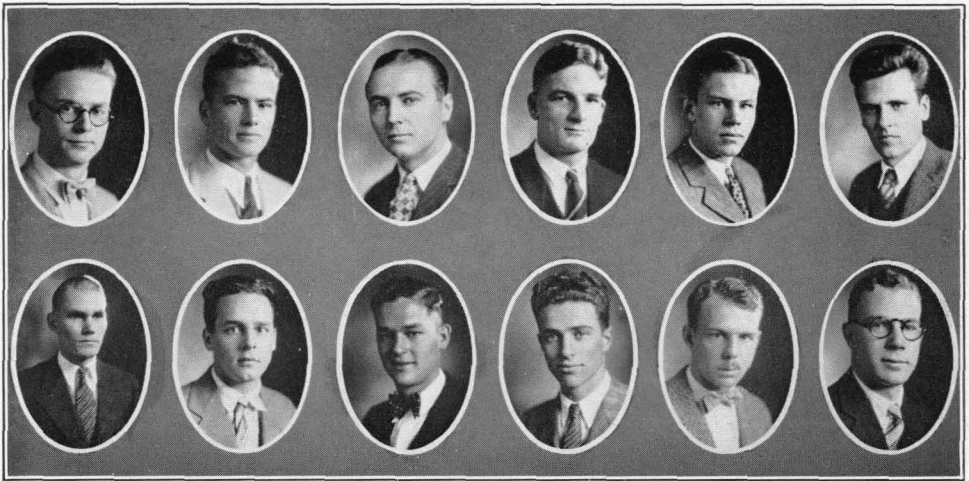
DORM CLUB



Maynard Anderson
Richard Anderson
Vance Arganbright
Albert Atwood
Benton Baldwin
Richard Barnett
David Barkley
Thomas Bell
Alfred Blankenburg
Arthur Brooks
Charles Emory Buffum
Smedley D. Butler, Jr.
George Butrovich
Warren H. Clark
Edward Crossman
William Cutts
Stephen Dorman
Martine G. Etchepare
Howard Finney
Lester Frick
Duroc A. Jecker
Joseph Harker
Cliver Harmon
Jack Hatcher
Wilbur Henschen
Francis Hutchinson
Herbert Ingham

Carl Young

Robert Jacobs
Louis Kanaster
Lawrence Kinsler
Raymond Labory
Alex Levine
Charles K. Lewis
David Marshall
Frank Mason
Harry Matison
John Mehl
Bertram Miller
Glenn Myers
Jack McGarry
Ennis Olmsted
John B. Osborne
Raymond Peterson
Edward Peer
Sidney Pickles
Leland Pratt
Donald Prentice
Luther Robbins
Robert Sherman
Ferdinand Strauss
Nick Ugrtn
Alfred Voak
T. Robert White
Eldon Wright



T. Robinson
Fredendall

Allen
Ellis

Schweiso
Gramatky

Shields
Zahn

K. Robinson
Johnson

Ganssle
Milliken

Y M C A

KENNETH ROBINSON President
 FRED BEWLEY Vice-President
 DONALD JOHNSON Secretary
 CLYDE SHIELDS Treasurer

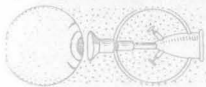
COMMITTEES

EMORY ELLIS } Handbook
 DON MILLIKEN }
 KARL GANNSLE Freshmen
 HORACE ALLEN Deputations
 GUNNER GRAMATKY Social
 OSWALD ZAHN Asilomar
 TRUE ROBINSON Foreign Students
 BEVERLY FREDENDALL Membership

The past year has been one of the most successful since the "Y" took up its office in Tech. Although at times there seemed to be many insurmountable objects in the way of the leaders of this organization, the fellows have always responded and put things over in the best manner. It has always been the aim of the "Y" to bring the fellows closer together in a bond of friendship, one that lasts long after school papers and final examinations are forgotten. To do this it is necessary to start with the freshmen and get these fellows, usually strangers, interested in one another.

This year, on the 23, 24, and 25 of September, thirty-five members of the freshman class were taken up to Camp Idyllwild in the San Jacinto mountains to spend a few days in getting acquainted, learning the ways of their





chosen Alma Mater, and having a general shake-down so that they might not appear too "green."

The first Friday after college had taken up its 1927-1928 session was the scene of a "Y-Mixer," an event which occurs two or three times a year and at which the fellows and the professors get together for a few hours, forget all thoughts of the classroom, and learn to be friends.

With school running along smoothly there were few chances to give many large functions, but "Chuck" Schwieso, the "Y" secretary, was up in his office always willing to lend a hand to help some fellow with his problem. At Christmas time the "Y" again came to the front by giving the annual Christmas program, and in April, the Easter service.

During the Christmas vacation eight members of the "Y" traveled to Asilomar to the annual "Y" conference and put Tech on the map through their various activities. Back at college again in the latter part of February another "Tech Mixer" was given where the fellows were well supplied with cider and doughnuts.

Along with other work, it was necessary to keep up the good start that was made with the freshmen the preceding fall. To do this there were given a number of noon luncheons, to which all of the members of the Class of '31 were invited. They were regaled with speeches by their fellow-members and a general good time was had by all, besides bringing the men into closer contact.

It is necessary to show the world that the Tech Y is alive and working. To do this there is provided a group of men who visit the neighboring high schools where there are Hi-Y groups and present a program for the younger fellows. There the attempt is made to bring out the activities of the Tech Y and the spirit which pervades the campus. This year South Pasadena, Alhambra, Santa Monica, and other nearby towns were visited, and the men felt repaid for their work as they were well received at all times.

One of the important functions assumed by the local Y is that of the publication of the Handbook which is distributed at the opening of the fall term. This convenient little book contains all the information necessary for the early education of the incoming freshmen, and also serves as a reference book for the upperclassmen.

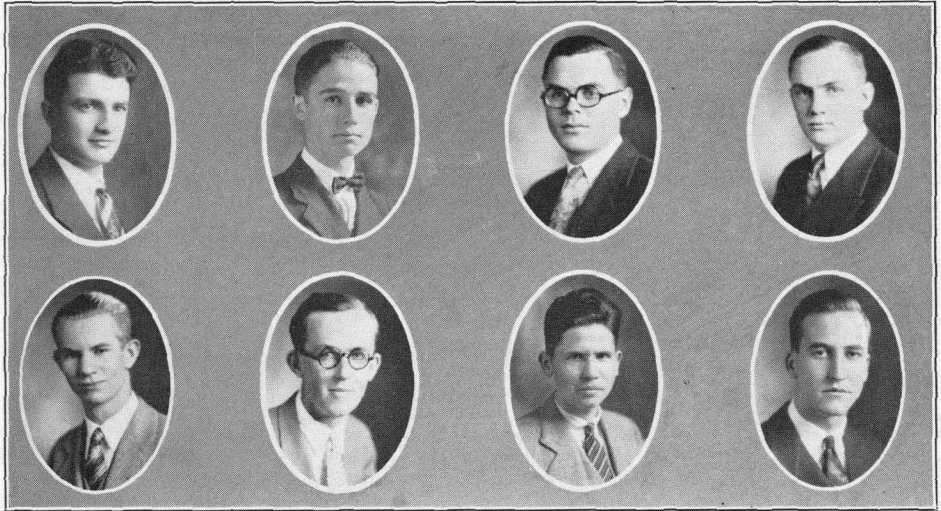


"Y" Retreat





TRAVEL PRIZE WINNERS



Evans
McMillan

Schweinfest
Lash

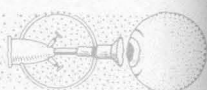
Coulter
Solomon

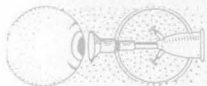
Lombard
Harness

An unprecedented decision was made by the Travel Prize Committee in the determination of the 1927 winners of the Institute prizes, when instead of choosing only two men for the honor the examining board was virtually compelled to choose eight men for the momentous trip. Thus, every man who had engaged in the last great struggle for the supremacy was a victorious candidate. The men who were fortunate enough to receive valuable prize awards were: Robert I. Coulter, Robley D. Evans, George T. Harness, Charles Coyle Lash, Albert E. Lombard, Edwin M. McMillan, Joe Schweinfest, and Kenneth Solomon.

Two years previous, but two men were honored by the Committee with the Travel awards, these men being Robert Heilbron and William Lewis. In 1926 two men were again victorious in the long struggle, Fred Ewing and Carl Anderson winning the coveted trip to Europe. For several years previous to these, only one European Travel Prize had been awarded each year, an American travel prize at the same time being granted to the most deserving sophomore. It was somewhat of a surprise, therefore, when the 1927 group was announced as consisting of the entire honor section in competition for the positions. The explanation offered by the committee was that the choice simply could not be reduced to a smaller group without unfair discrimination.

On the morning of March 20, 1927, the wanderers set forth on the long journey. The group was not quite intact, since Robley Evans preferred to postpone his trip until the next year and Joe Schweinfest had left a few days earlier for the East. Firth Pierce had joined the group, however, as an unofficial member, making the actual count seven. Before many days had passed,





the men were on the ocean, learning a great many new things, chief among which was the fact that even hard-boiled scientists and engineers do get seasick.

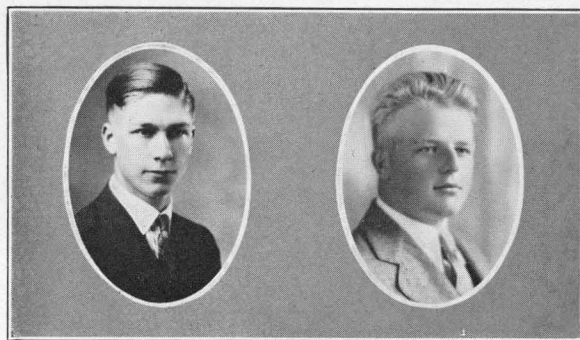
Arriving in France, the unaccustomed delights of attempting to eat in a foreign language were experienced for the first time. The ever-useful and international sign language soon became quite popular with the travelers. After a short stay in the old French city of Rouen, the group moved on to Paris, where the story becomes more complicated because of the splitting into smaller units. From this time, the varying ideas regarding the best points to visit kept the original group well divided, and the Tech globe trotters were seldom seen at any one place at the same time. Two of the party, Pierce and McMillan, visited Africa, going across the straits of Gibraltar to the Mohammedan city of Tangier. These men thus distinguished themselves by examining one more continent than did the other travelers. Meanwhile the remainder of the group were at Monte Carlo, gambling away their hard-earned savings; a more or less groundless report was circulated to the effect that a few cents were actually won by some of the men.

More strenuous diversions, such as hiking and mountain climbing, were indulged in to considerable extent. Peaks ranging from Scawfell Pike in England to the Matterhorn in Switzerland were scaled by various members of the party. The ascent of the latter was far from an easy one, as many of the climbers will agree.

By means of many adventures among the beer gardens of Germany and many mixups traceable to imperfect mastery of the strange languages of Hungary and Czecho-Slovakia, the Tech prize winners were able to store up a vast amount of new knowledge concerning things of the world in general and Europe especially. The ever-itching palms of the tourist guides were a constant source of amusement and often annoyance to the uninitiated men.

The men returned to Pasadena by devious routes, arriving late in September. One of the group arrived in the following April; Joe Schweinfest remained in Vienna and attended the University, returning in time to complete his college career at the Institute in June.

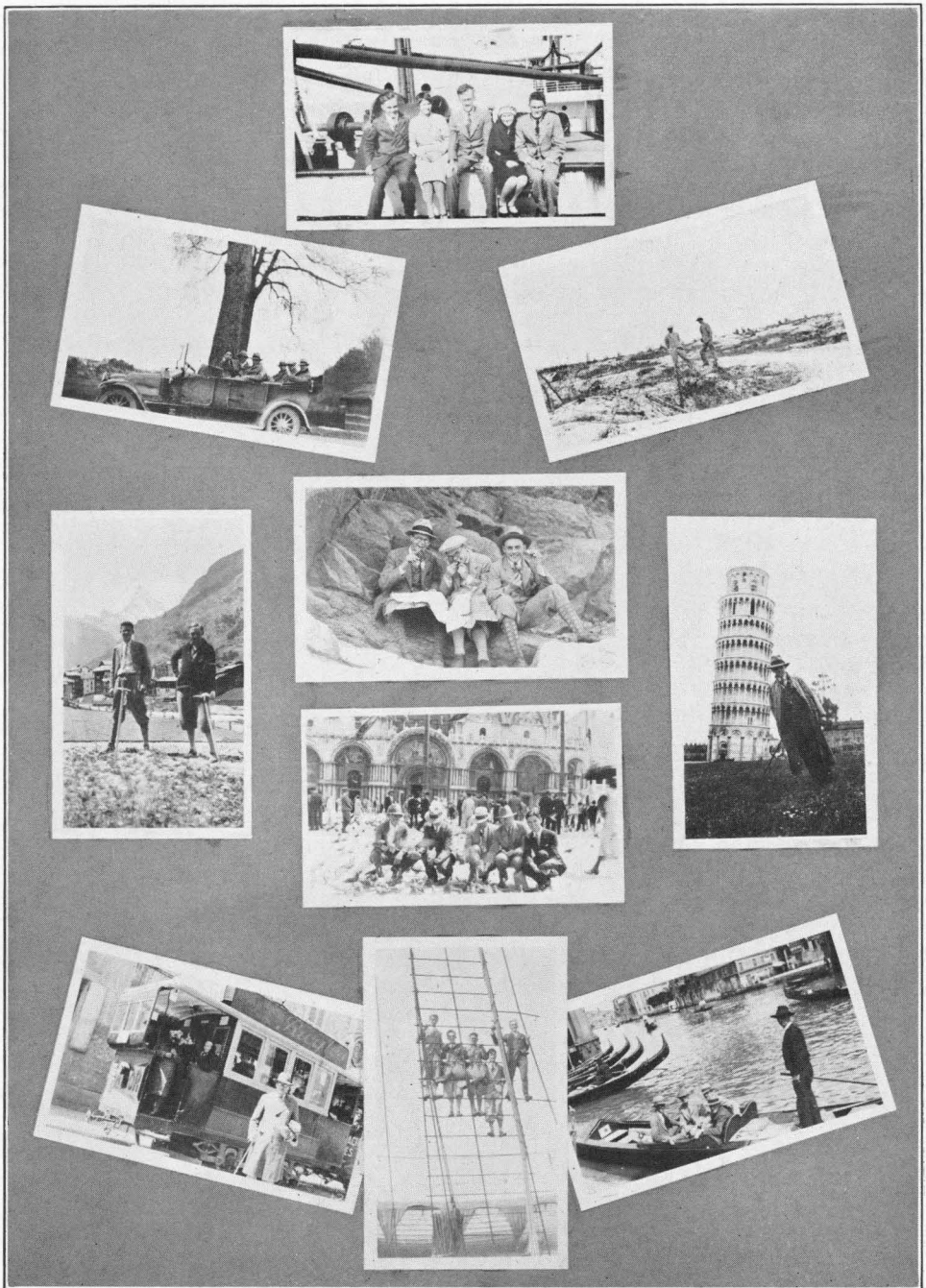
The winners of the coveted prize from the class of '29 were Albert Myers and Bolivar Roberts. Myers elected to postpone his trip until after his graduation. Roberts, however, preferred to take the trip this year and left in March with Robley Evans, who is combining his voyage with a honeymoon.



ROBERTS

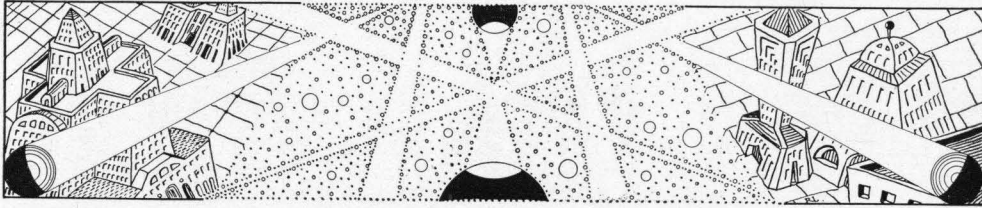
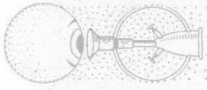
MEYERS





Travel Prizes





GREEK SOCIETIES

INTERFRATERNITY COUNCIL

GNOME FRATERNITY

Ed. Joujon-Roche
Guy Chilberg

PHAROS FRATERNITY

William Berry
Clyde Shields

SIGMA ALPHA PI FRATERNITY

William Olsen
Philip Durfee

PI ALPHA TAU FRATERNITY

Harold Huston
Gordon Minkler

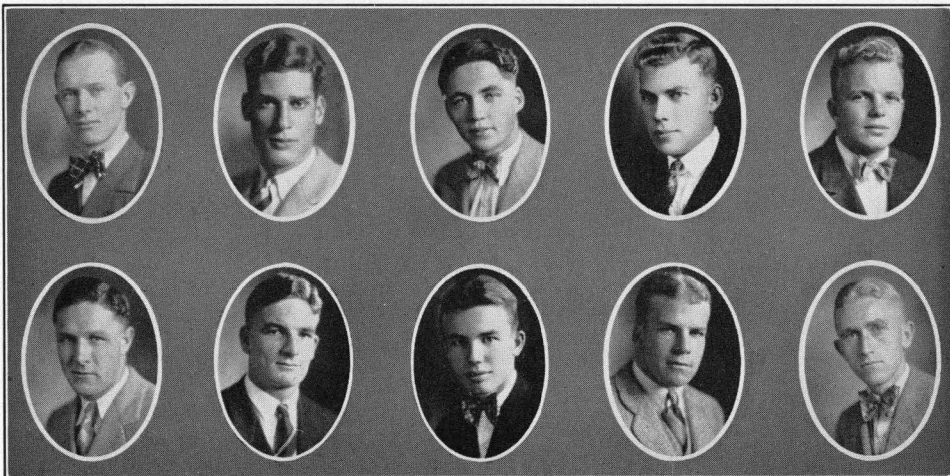
GAMMA SIGMA FRATERNITY

John Thatcher, *Chairman*
Richard Crane

Faculty Advisor, Dr. John R. Macarthur

The aim of the Interfraternity Council is to bring the five social fraternities on the Tech campus into closer bonds of friendship. The preservation of amicable relations between the fraternities during rushing season is one of its chief functions in this respect, and to this end the council acts under an annual interfraternity agreement.

Dr. Macarthur is in deep sympathy with the work of the council, and the splendid assistance which he rendered that body has made him respected and admired by all fraternity men.



Durfee
Huston

Shields
Joujon-Roche

Minkler
Thatcher

Chilberg
Olsen

Crane
Berry





GNOME CLUB



Founded 1897

FACULTY AND GRADUATE

Mr. Edward C. Barrett	Mr. Clarence L. Haserot
Dr. Stuart J. Bates	Prof. Clinton K. Judy
Mr. Gilmor Brown	Prof. Romeo R. Martel
Prof. W. Howard Clapp	Mr. Walter W. Ogier, Jr.
Prof. Robert L. Daugherty	Prof. Royal W. Sorensen
Prof. Lucien H. Gilmore	Mr. Ray E. Untereiner
Prof. Harry C. Van Buskirk	

CLASS OF 1928

Maxwell F. Burke	Charles F. Lewis
Guy L. Chilberg	Albert E. Lombard, Jr.
Robley D. Evans	Elbert E. Miller
F. Gunner Gramatky	Kenneth H. Robinson
Edward Joujon-Roche	Hampton Smith

CLASS OF 1929

Alphonse Cramer	William H. Mohr
Thomas H. Evans	Hubert M. O'Haver
Sidney T. Exley, Jr.	Douglas Perry
Karl A. Ganssle	Leslie O. Scott
G. Schild Lufkin	Maurice H. Sinram
Laurence E. Lynn	Fred A. Wheeler

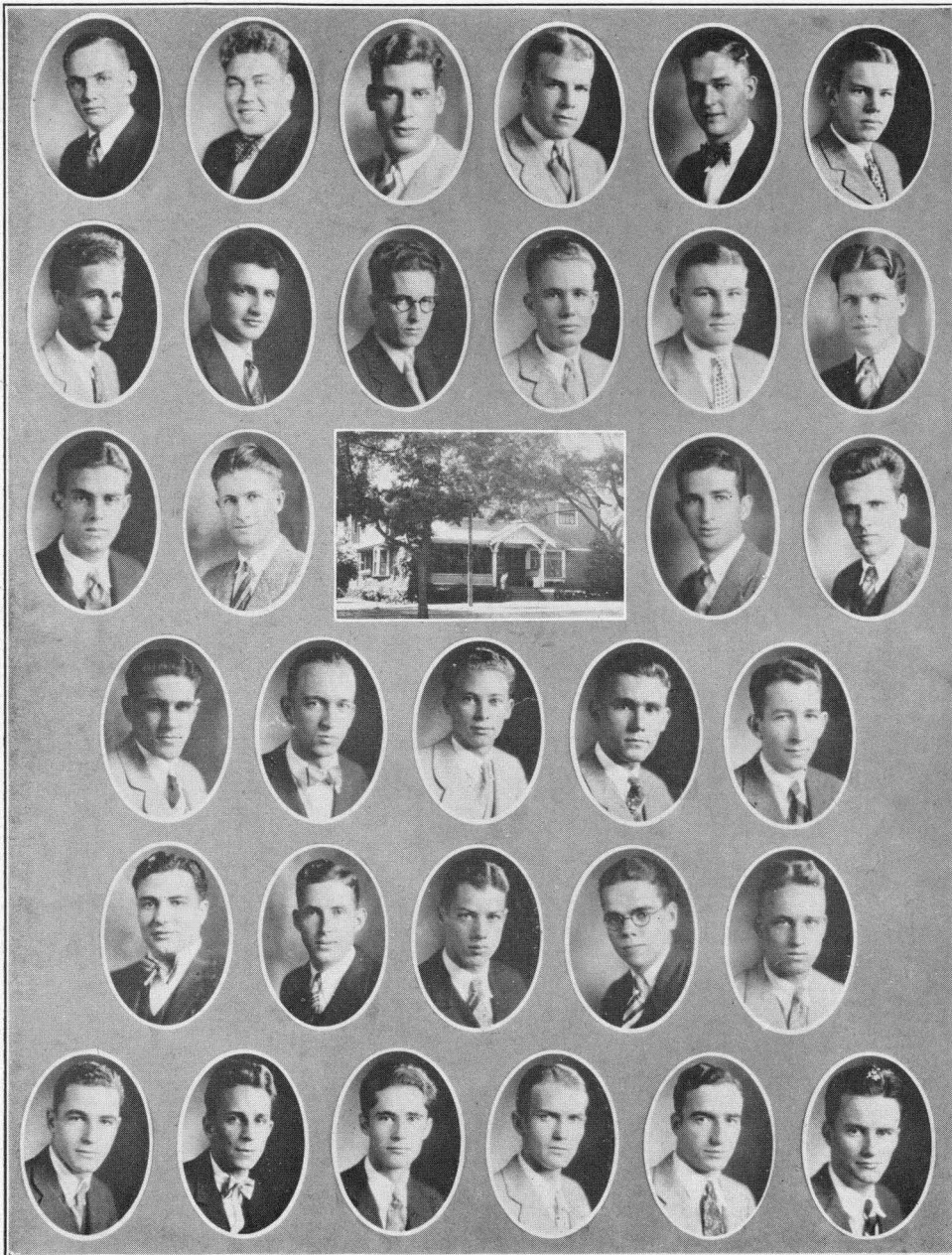
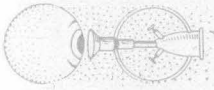
CLASS OF 1930

W. Walters Ayers	Robert M. Oaks
Franklin G. Crawford	Robert C. Ramey
William D. Hacker, Jr.	Merrill D. Tucker
George E. Liedholm	Andrew W. Wern
Sidney Zipser	

CLASS OF 1931

Albert Crawford	Robert M. Lehman
Donald B. Graff	Jack F. McGarry
Aubrey Horn	Leland Pratt
Herbert S. Ingham	George S. Rice
Raymond F. Labory	Robert G. Smith
Howard G. Smits	Arthur C. Brooks





Lombard
Miller
Cramer

Lewis
R. Evans
T. Evans

Joujon-Roche
Burke

Chilberg
Smith

Gramatky
Mohr
O'Haver

Robinson
Lynn
Ganssle

Wern
Exley
Lufkin
Zipser

Perry
Downs
Ayers

Sinram
Ramey

Tucker

Wheeler
Hacker
Oaks

Scott
Liedholm
Crawford



SIGMA ALPHA PI



Founded 1914

FACULTY MEMBERS

Dr. William N. Lacey
Prof. Graham A. Laing

Prof. George R. MacMinn
Prof. Franklin Thomas

CLASS OF 1928

Thomas H. Brighton
Kenneth R. Crosher
Philip T. Durfee
Richard G. Folsom

William L. Olsen
Conrad Scullin
Milton H. Sperling
Huston W. Taylor

CLASS OF 1929

Wayne C. Allen
Walter Cruzan
John W. Daly
Charles E. Dickerman
John S. Goodwin

James H. Keeley
Elmer M. Muff
Howard G. Dodge
Donald H. Johnson
Joe A. Niles

Homer C. Reed

CLASS OF 1930

Frank E. Alderman
Tom G. Bernhardi
John H. Crawford
William H. Folckemer

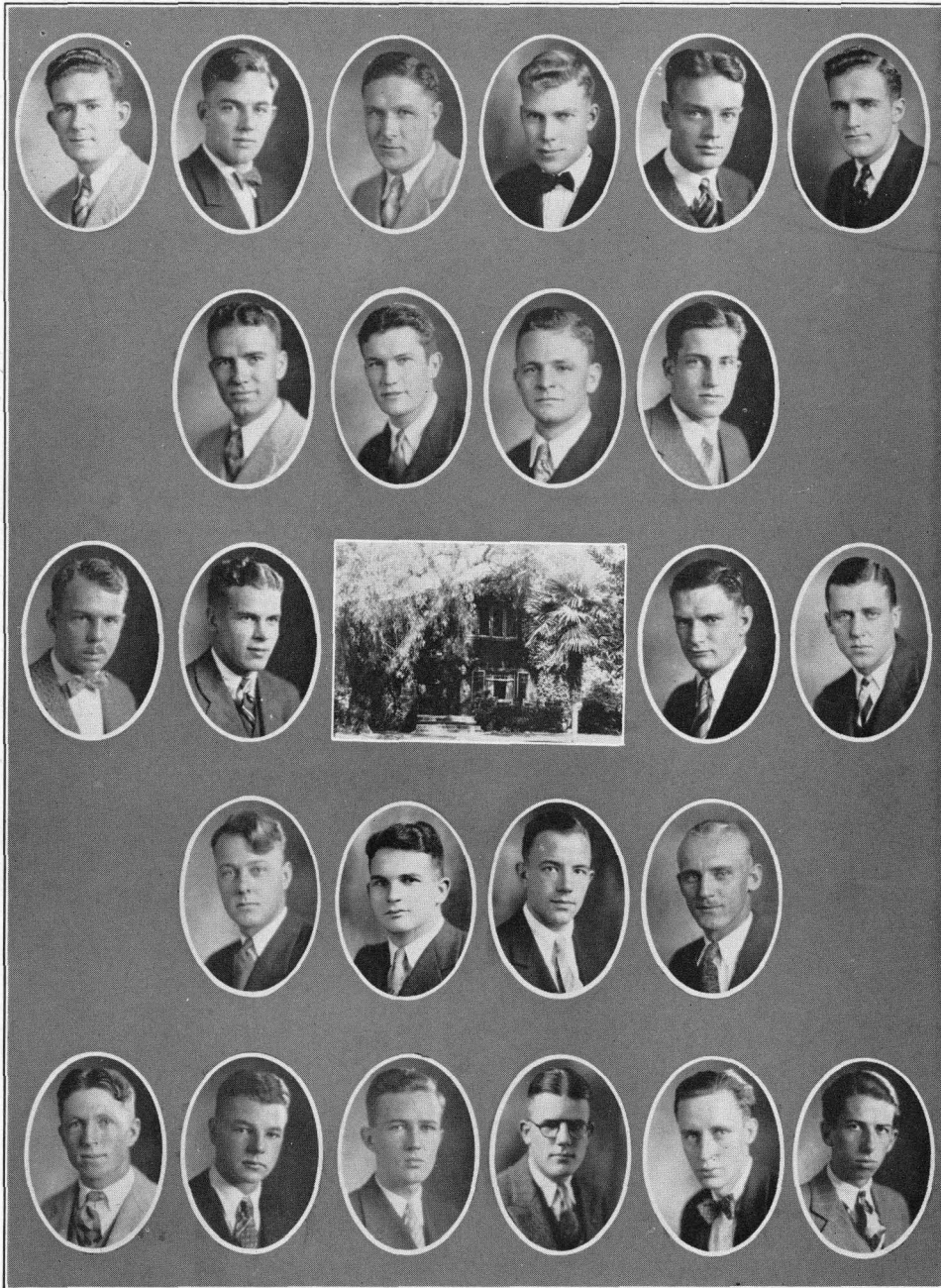
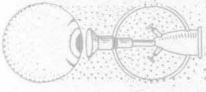
Charles M. Herd
Roland F. Hodder
Spencer W. Long
Edward H. Uecke

PLEDGES

Elliott P. Bennett
Lester L. Frick
Theodore W. Jurling
Walter L. Dickey
Carl W. Young
Lawrence E. Kinsler

Alvin J. Maes
Everett H. Pier
Donald M. Prentice
Oliver H. Folsom
Nick T. Ugrin
Martine G. Etchepare

Glenn Myers, Jr.



Crosher
Johnson
Herd

Folsom
Sperling
Dickerman
Goodwin
Alderman

Durfee
Scullin
Niles
Vecke

Olsen
Reed
Dodge
Long

Brighton
Daly
Keeley
Cruzan
Hodder

Taylor
Muff
Crawford





THE PHAROS



Founded 1921

FACULTY AND GRADUATE

Dr. Arthur A. Noyes	Mr. Robert T. Knapp
Dr. Ira S. Bowen	Mr. Johannes A. Van den Akker
Dr. Clyde C. Wolfe	Mr. Ralph M. Watson
Dr. Donald H. Loughridge	Mr. Richard M. Sutton
Prof. Howard J. Lucas	Mr. George B. Brigham, Jr.
Prof. Earnest S. Watson	Mr. Rollin P. Eckis

CLASS OF 1928

Frank W. Bell	Ray K. Jacobson
Linton P. E. von Beroldingen	Douglas G. Kingman
William L. Berry	Ernest E. Sechler
William M. Jacobs	Baker Wingfield
Joseph Schweinfest	

CLASS OF 1929

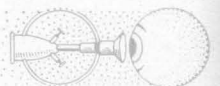
Francis D. Bode	Homer G. McWilliams
Emory L. Ellis	Donald B. Milliken
William B. Hatch, Jr.	Clyde E. Shields
Kenneth E. Kingman	Morton K. Shields
Beverly F. Fredendall	Paul M. Terry
Robert J. White	

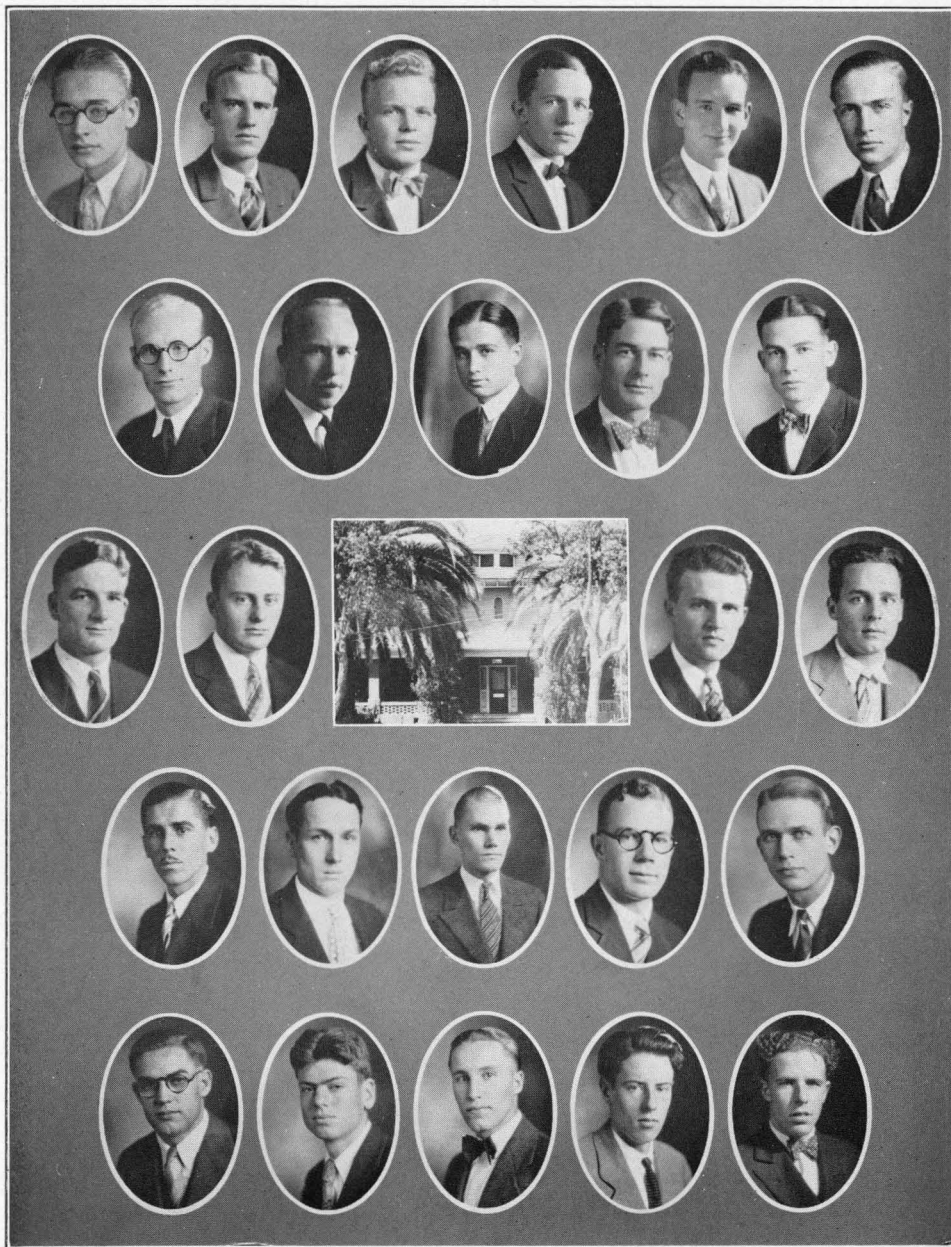
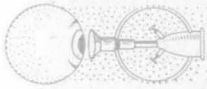
CLASS OF 1930

Howard E. Hopson	George A. Ross
William Morton	Austin W. Strong
Willard G. Reynard	James N. Walker

CLASS OF 1931

William Cutts	John S. Detweiler
Theodore R. Folsom	Clyver Harmon
Francis W. Hutchinson	Laverne Leeper
Charles K. Lewis	John W. Mehl
Bertram F. Miller	Oscar M. Newby
Mabry Van Reed	David S. Marshall





von Beroldingen
Bell
C. Shields
White
Ross

Jacobson
Wingfield
Bode
Hatch
Strong

Berry
Schweinfest
Fredendall
Hopson

Kingman
M. Shields
McWilliams
Milliken
Morton

Jacobs
K. Kingman
Terry
Walker

Sechler
Ellis



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PI ALPHA TAU



Founded 1921

FACULTY AND GRADUATE

Mr. Fred J. Converse	Dr. Walter T. Whitney
Mr. Francis W. Maxstadt	Mr. William D. Crane
Mr. C. Hawley Cartwright	Mr. Fred J. Ewing

CLASS OF 1928

Ralph W. Cutler	Richard H. Duval
Harold M. Huston	C. Gordon Minkler
	Russell J. Love

CLASS OF 1929

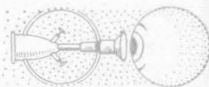
Harlan R. Asquith	Willard A. Findlay
William W. Booth	Walter B. Grimes
Benjamin A. Barre	John G. Gilbert
Frederick Cline	Donald K. Olson
Dallas E. Cole	Julien F. Phillips
Thomas H. Compton	Carl A. Weise
George F. Weismann	Lloyd E. West

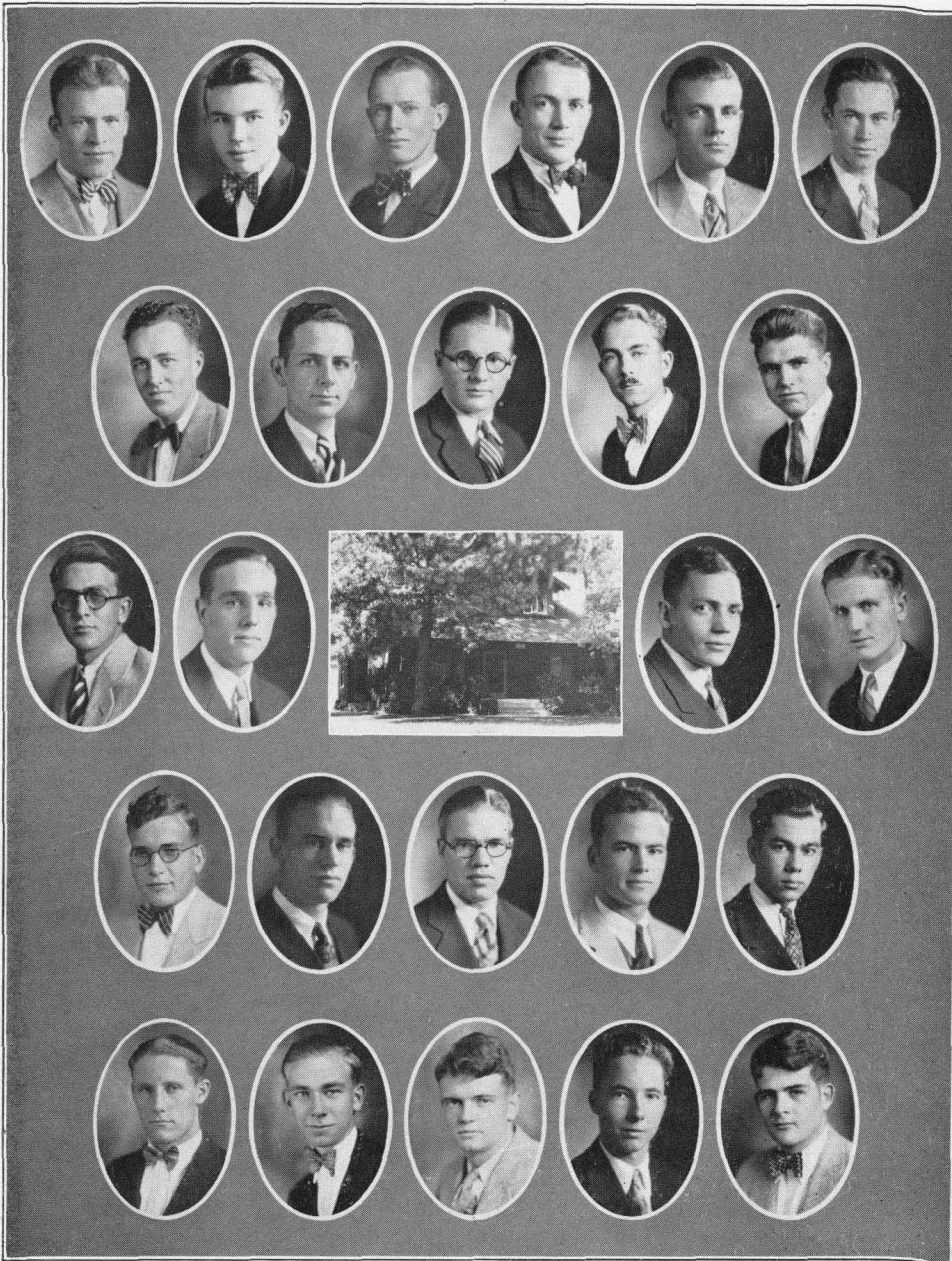
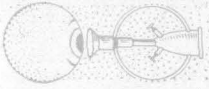
CLASS OF 1930

Horace D. Allen	James H. MacDonald
W. Fred Arndt	Glenwood L. MacLane
Roland C. Hawes	William C. Riggs
Nathan D. Whitman	Richard Hale Smith

CLASS OF 1931

Norman R. Gunderson	Robert L. Sherman
DeWolfe Murdock	William J. Thomas
Robert P. Coleman	Frank M. Mason





Love	Minkler	Huston	Duval	Cutler	Asquith
Weismann	Compton	Gilbert	Findlay	Olson	Cole
Booth	Grimes	MacLane	Allen	Cline	Arndt
Weise	Phillips	Riggs	Hawes	MacDonald	
Smith	Whitman				



826T



GAMMA SIGMA



Founded 1925

FACULTY

Lieut.-Colonel L. M. Adams
Mr. Louis W. Jones

Mr. Arthur H. Fleming
Mr. Roger F. Stanton

CLASS OF 1928

George R. Crane

John W. Thatcher

CLASS OF 1929

Wilbert W. Baustian
Eugene Atwater
Frederick W. Bewley
Charles A. Wiley
Oswald F. Zahn, Jr.

Horace A. Campbell
Howard E. Baker
John C. Shields
Karl W. Westlund
Arthur F. Walton

CLASS OF 1930

Ernest C. Hillman
Kenneth L. Miles
Frank M. Wixson
William C. Babcock
Robert A. Stroud
H. Fred Sherrer

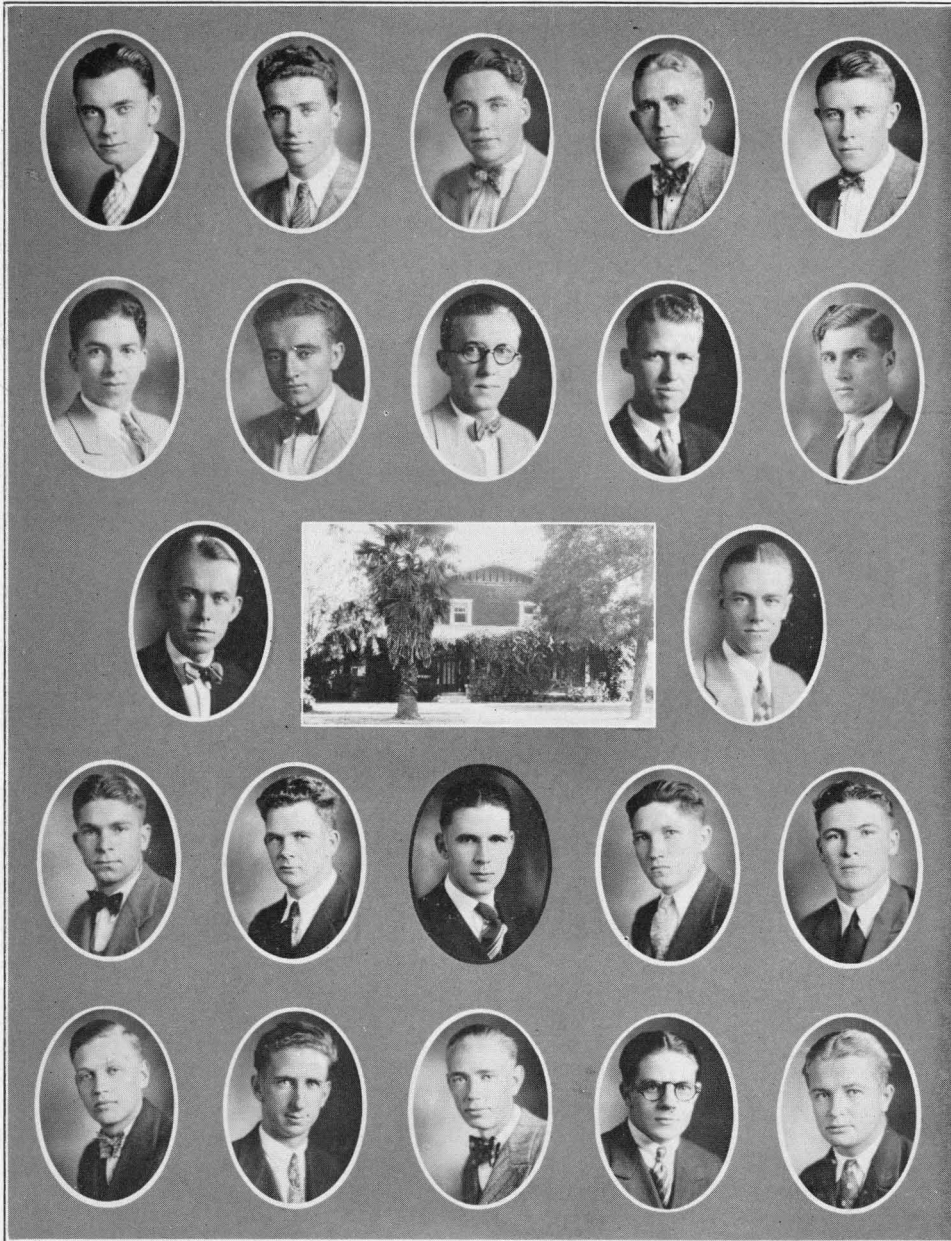
John W. Towler
Matthew L. Triggs
Harland R. Moss
Edmund G. Grant
Wendell L. Humphreys
James R. Boyle

PLEDGES

Arnold A. Keliher
Deane E. Carberry
E. Merlin Thayer

Truman H. Kuhn
Herbert E. Haymaker
Charles E. Buffum





Baker
Walton

Zahn
Campbell
Babcock
Stroud
Wixson

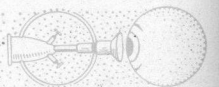
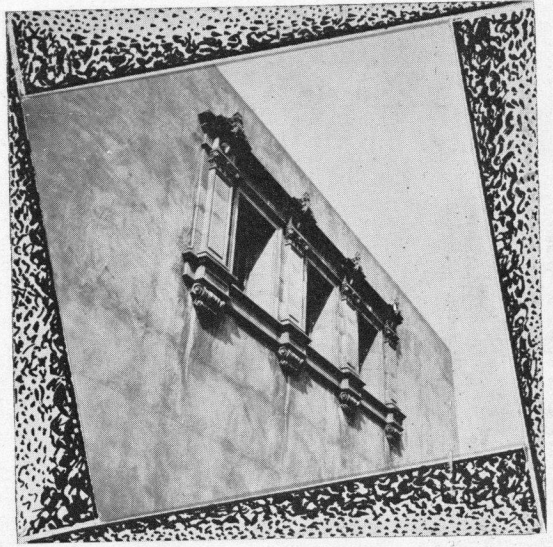
Thatcher
Baustian
Keliber
Hillman

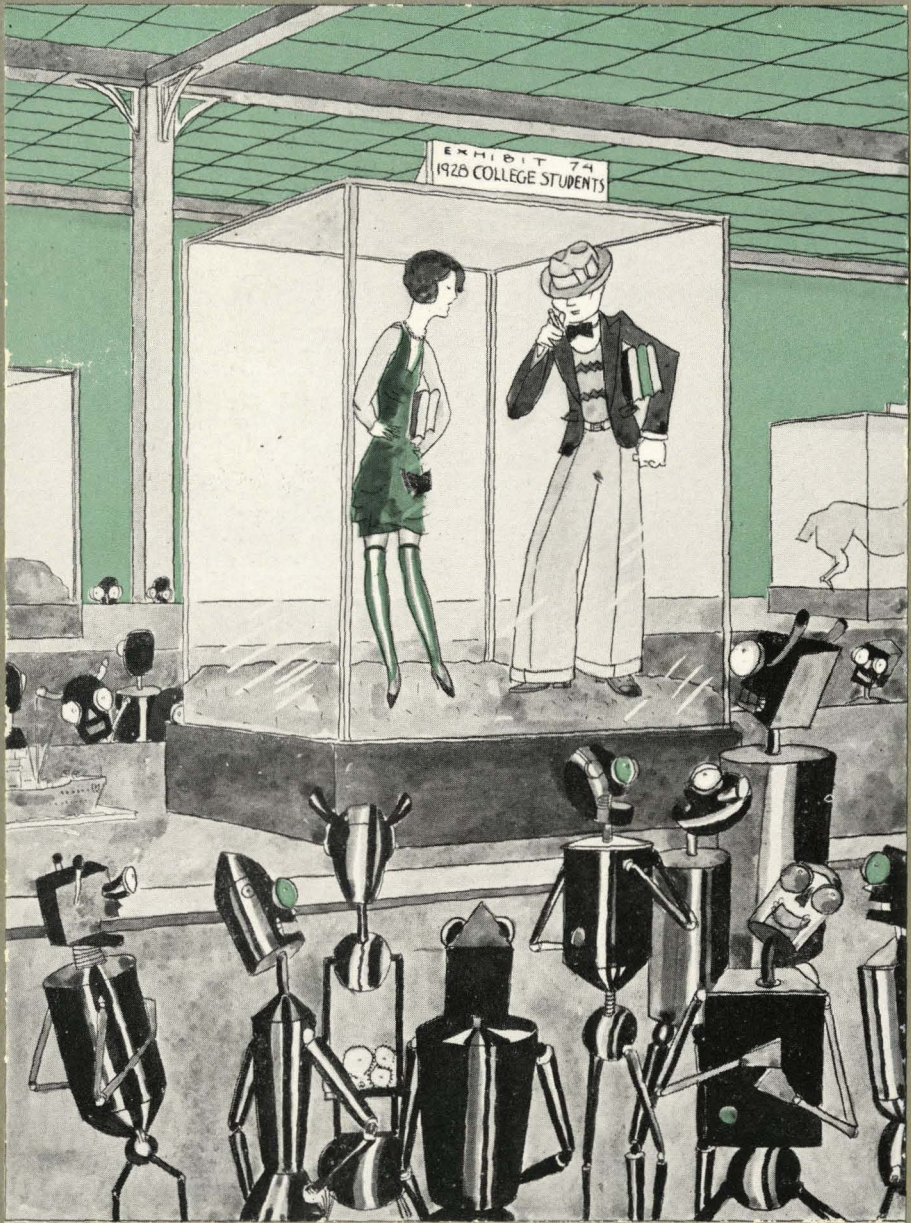
Crane
Wiley
Shields
Boyle
Miles

Westlund
Atwater
Triggs
Moss

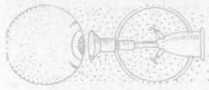


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HUMOR



*A Sweater
Is A Sweater*

BUT THE

AWARD SWEATER

IS A

Wil Wite

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VARSITY
JAVEE

Any one of the four worthy to carry the
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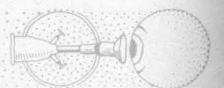
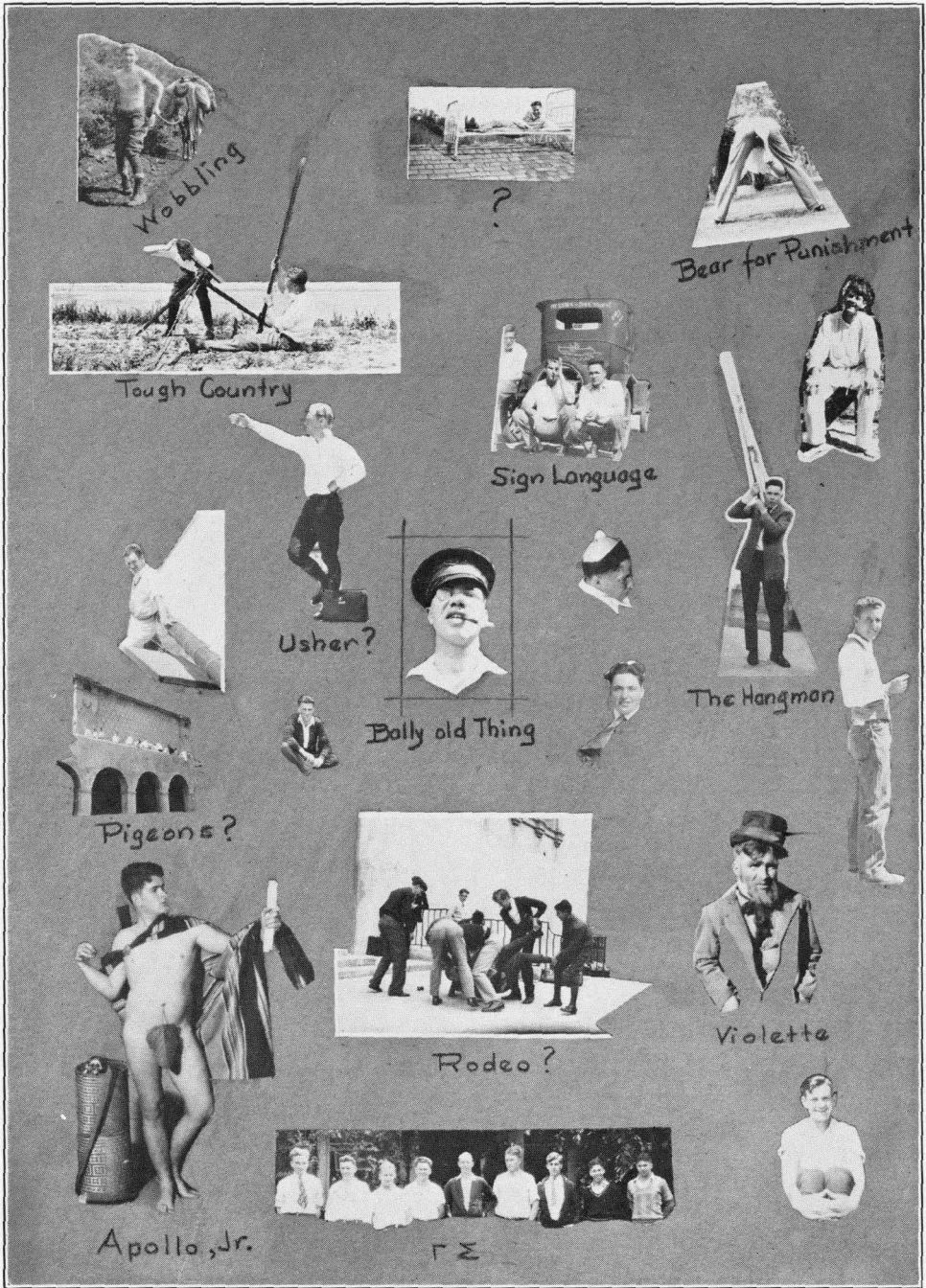
Wil Wite

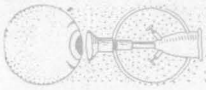
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What are YOU going to do after You Graduate from College? Just Bum around and spend your Saturday Nights in the Jug and All? No! Be an Electrical Expert! I'll Train You! I want You to come to My School! I need You! And How!

There's a Big Future in Electricity. Certain men at Sing Sing will say that Electricity will Spoil their Futures, but don't be Narrow-minded. Just Think! Millions of Fuses blow out every year. Who Fixes them? *Nobody!* Millions of Bulbs blow out every year. Who Fixes *them?* *Nobody!* Thousands of Street Cars develop Fallen Arches every year. Who—well, you know the Answer. *There's YOUR Opportunity, Man!* Grab it! The Watts School of Applied Automatic Analytical Electricity is Fully Equipped to Take You In. That's its Specialty.

The Laboratory Equipment is of the Finest. Two Osculating, Twin Schew Electric Fans; a Reversible, Three-Speed Iron; Four Peachy Spark Plugs, and 8,000,000 feet of Barbed Wire. They're all for the use of the Students—FREE! The Watts School of (see above) is a perfect Ohm complete with Cold and Freezing Showers, Standard Gear Shift, Double Rich Chocolate, Finest Turkish and Domestic Blends, Rolling Lapels, Dimmers, and Three Tubs in the Basement in which Students may grow Potatoes or make their own Beer.

Send in the Coupon—any Coupon—Today! Hurry!! Hurry, before they're all gone! Or before I am. Don't send a Cent, but look for the Double-stitched Lining. Think it over, Man! If YOU want to make \$165.842 a year, take up Electricity. And More Power to You!

—Michigan Gargoyle.



1928

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The college man doesn't argue style . . . he accepts or rejects it.

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THE FLORSHEIM SHOE STORE

60 EAST COLORADO ST.

Ingham, ye magician (to his assistant): "Now, shill, are you sure this silk hat is empty?"

"Positively!" returned the Umpchay—"The rabbit you put in it before the performance got away!"

PEACE REIGNED AND ALL WAS WET

The damsel rent her hair (fifty cents an hour). Her husband's breath came in short pants (but none would fit the baby). She angrily threw her voice (and broke a dining room window); he raised his (but not to be a soldier). She submitted and dropped her eyes (one shattering itself on the floor). She kissed him and he gave her a few gentle cuffs (which were later used on her street suit).

Ain't love phenomenal?

—Michigan Gargyle.

I looked up her record to see if she had any parents. She had none. I learned that she had no guardian. I even found that she had no supporters. Wow! What a girl!

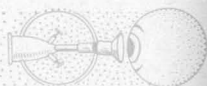
—Lehigh Burr.

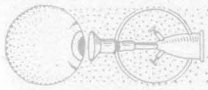
"That's a twelve piece orchestra."

"It doesn't look like it."

"Yeah, those six men can play ten different fox trots and two waltzes."

—Cornell Widow.





IN 2,000 A. D.

Customer: I want to get gloriously drunk this evening.

Druggist: Fine. I have some ten year old stuff here that I can let you have for twelve dollars a capsule.

NEAR TRAGEDY

It was night. The rain fell in torrents and the lightning darted through the sky in blinding flashes. The wind was blowing a gale but the brave little woman clasped the baby to her breast and struggled on.

The light cloak about her shoulders was soaked. Her hair had tumbled about her ears and the wet curls fell to her shoulders and were tossed about by the wind. Time after time she stumbled and almost fell but with a supreme effort of the will she toiled on.

She was growing weaker now. The storm continued and soon she must drop from sheer exhaustion. Suddenly the sun burst forth and as if by magic the storm ceased. The woman looked around angrily.

"That's the third time that damned rain machine has broken down!" shouted the movie director as he threw his megaphone to the ground in disgust.

My girl is like a crowbar. She's not much to crow about and she doesn't bar anything.

—Ala. Rammer-Jammer.

WM. C. CROWELL

Builder



495 SO. BROADWAY

PASADENA, CALIFORNIA



826T



IN THE SPRING A YOUNG MAN'S FANCY TURNS TO THOUGHTS LIKE THESE
—WHEN WRITING FINAL EXAM PAPERS:

All the world except the United States lies in the Temperance Zone.
Queen Elizabeth rode through Coventry with nothing on and Sir Walter
Raleigh offered her his cloak.

The King wore a scarlet robe trimmed with vermin.

Barbarians are things put into bicycle wheels to make them run smoother.

Polonius was a mythical sausage.

After twice committing suicide, Cowper lived until 1880 when he died
a natural death.

The "Ode to a Grecian Urn" was a poem written by Schwab describing
the social conditions among the proprietors of restaurants.

—Log.

Have you heard the new "Ears" song?

I'll listen, what is it?

"Among my Sooven Ears."

—Log.

"Theodore, have you no ambition in life? Wouldn't you like to do
something big—something that would create a great commotion in the world?"

"Yes, Clara. I'd just love to throw a bushel of eggs into an electric fan."

—C. C. N. Y. Mercury.

CAMERAS	"CINE-KODAKS"	DEVELOPING
KODAKS	F. W. REED & CO.	PRINTING
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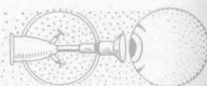
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Quality

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Pasadena, Calif.

FRATERNITY BROTHERS
We've drunk from the same bottle,
We've slept in the same bed,
And it's a helluva wonder,
That we both ain't dead.
—*Ga. Tech. Yellow Jacket.*

Some people are passionately fond of poetry.
Others are fond of passionate poetry.
While st'ill others are poetically fond of passion.
—*Cincinnati Cynic.*

One beautiful moonlight night a certain fellow and a certain girl were out driving. They were on a country road because as he said, the traffic was too thick on the main road and it made driving difficult. All at once without any warning the car slowed down and stopped. "I'm afraid, dear," he said, "that the motor is dead. I don't know whether I can fix it or not."

So they got out of the car and he fooled around a while—with the car. In a few minutes he had found the trouble and fixed it so they got in and drove home.

Moral: Girls, never go out with a mechanic.
—*Colgate Banter.*

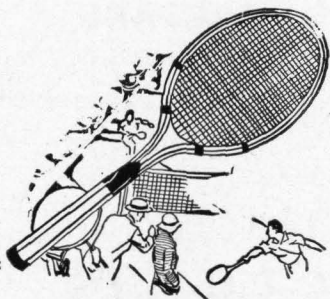
H's Mother: "Now, Frank Mason, go wash your face and neck."
Her Frank: "And neck who, Ma?"

1928





826T



SERVE!

Whatever sport you favor, Nash's is ready with the best products made by the Spalding and Wilson people.

F. C. NASH & Co.

COLORADO, BROADWAY & UNION
PASADENA

A college student died and was buried. At his final stomping ground he remarked to a neighbor, "Heaven is certainly like college life. We had four quizzes today getting through the gates. And then, when we got through, everybody was having a pep meeting with a big bonfire."

His neighbor winced. "Pardner, you hain't in heaven."

—Okla. Whirlwind.

MODERN VERSION

You can't keep a good man good. Murderers will out.

Let the punishment fit the rhyme. Come one, come oiled.

Every man reads a peck of dirt before he dies.

All cats are gay in the dark.

Nothing is certain but death by taxis.

Man proposes, he supposes.

TITLE

—quotation marks what is the matter comma little girl question mark quotation marks said the old man period

—quotation marks oh comma she lost her head again comma quotation marks sobbed the unhappy girl period

—quotation marks who question mark quotation marks asked the man period

—quotation marks my dolly exclamation point quotation marks answered the child period

—Desert Wolf.

He: Did you osculate the fair maiden this night in the year of our Lord nineteen hundred and twenty-seven?

Haw: Nope! She shook her head twice in negation.

He: Well, you poor lost soul, hasn't any one told you that a double negative makes an affirmative?

—Bobcat.

Featuring

HART
SCHAFFNER
& MARX
CLOTHES

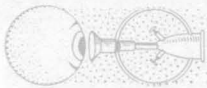
For Young Men

UNIVERSITY
STYLES

Leddy's

170 E. Colorado





"Do you remember the old days when movie houses were dark as pitch and the click of the camera drowned out all else?"

"Yes, dammit, I was only eight years old then."

—Carnegie Puppet.

"Grandma, can you help me with this problem?"

"I could, dear, but I don't think it would be right."

"No, I don't suppose it would, but have a try at it and see."

—Middleburg Blue Baboon.

Prof: You missed my class yesterday, didn't you?

Frosh: Not in the least, sir, not in the least.

—Ala. Rammer-Jammer.

Captain: Present arms.

R. O. T. C.: Here you are, Captain.

—Cornell Widow.


Compliments

of

The Model Grocery Co.

PASADENA

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**Brenwood
Clothes**



AND speaking of clothes, where can you get more style and quality for your money than you get in *Brenwood clothes*?

Techo answers, "where?"

Why don't you wear 'em this season?



RESPONSIBLE FOR ALL BRENWOODWEAR

155 EAST COLORADO ST.

Society Brand Clothes

"Loan me five dollars, will you?"

"Sorry, but I have but four dollars and seventy-five cents."

"Well, give me that. I'll trust you for the other quarter."

YES, SIR!

There's only one kind of baby a man knows how to hold in his arms.

The pessimist says all women are immoral; the optimist merely hopes they are.

—Boston Beanpot.

Nurse: Your Majesty, it's a boy.

King Solomon: A thousand petty damns! And I wanted a girl this time!

Nurse: Do not despair, O King; there will be three more along in a minute.

1928





The farm hand took his girl out for a buggy ride. Nine miles out in the country the horse dropped dead. Louise said she knew she'd drop dead too: it was a terrible predicament.

"Suppose I give you a nice, sweet kiss. That will put lots of life in you."

"Are you sure that a kiss will put lots of life in me?"

"Positive, darling."

"Then, suppose you kiss the horse."

—Rutgers Chanticleer.

Traveler (in Arizona): Conductor, why is this train so late?

Conductor: Well, you see, sir, at night it gets so cold that the fireman can't keep up steam in the engine, and in the daytime it gets so hot that the rails expand and push the towns farther apart.

—Oregon Orange Owl.

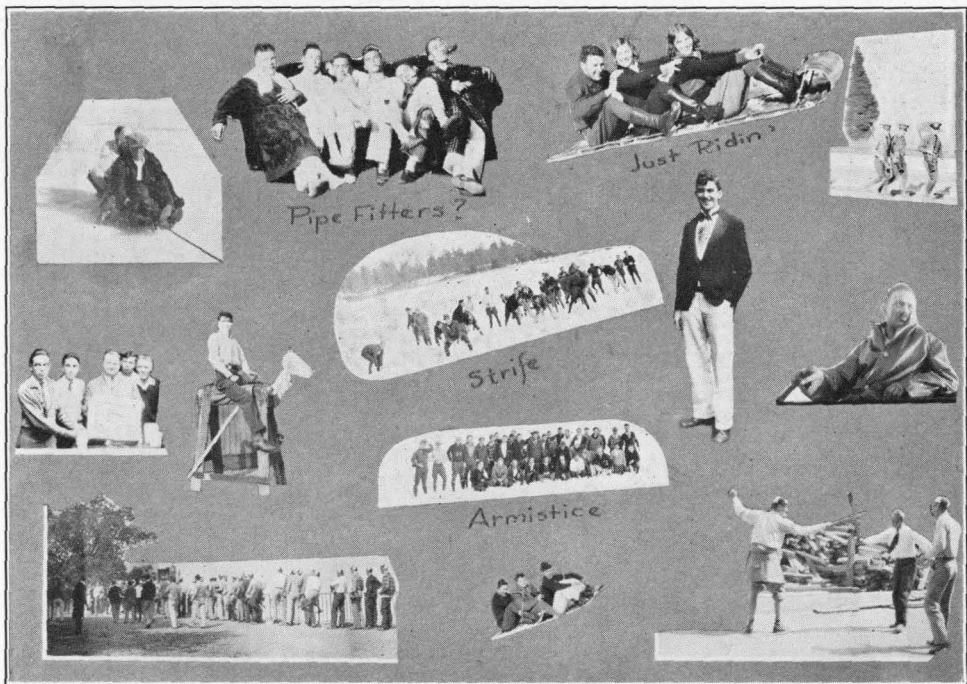
A beautiful young lady boarded the street car. "Oi, lady," pleaded Ginsberg, of Ginsberg, Ginsberg and Ginsberg, Incorporated, "please don't sit underneath my advertisement!"

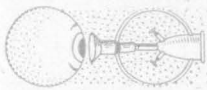
Prof: Morphy, you're the most valuable man in the class.

Morphy: How's that, Doctor?

Prof: Well, you talk in your sleep and so keep all the other men awake.

—Georgia Cracker.





ATHLETIC STATUES



FLATWARE



DIAMOND RINGS



WEDDING RINGS



WATCHES



SILVERWARE



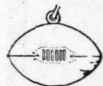
PRIZE CUPS



LEATHER WALLETS



TROPHY PLACQUES



ATHLETIC AWARDS



FRATERNITY PINS



CHAPTER GUARDS

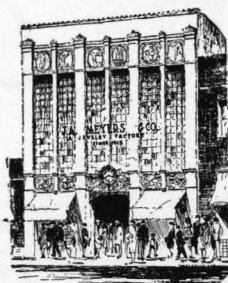


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GAVELS

Mary has two lovely calves,
And they are white as snow.
That's why they always take first prize
At any cattle show.

Inscription on a tombstone: "Here lies an Atheist; all dressed up and no place to go!"

Every dog has his day, but a dog with a sore tail has a weak end.

Prof. Laing: "How many make a dozen?"

Econ-ist: "Twelve."

Prof. Laing: "How many make a million?"

Econ-ist: "Very few."

"I'm just a little April Shower," said the lunatic as he galloped by, trying to keep up with his running nose.

Kindergartener: "Why do you doubt the veracity of your classmate's statements?"

First Grader: "Well, I asked him the other day how many brothers he had and he told me One. Yesterday I saw his sister and asked her and she told me she had Two. Don't that prove he's a liar?"






*Clothes
do
Count!*

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On Broadway at Sixth

IN HOLLYWOOD
The Boulevard at Vine

IN PASADENA
Colorado near Madison

MULLEN & BLUETT
clothiers

It is said that Hercules was the strongest man in the world. He could lift himself by the back of his neck and hold himself out at arm's length for hours at a time.

—Log.

What engines shall we use?
Oh, Diesel do.

Why haven't you had any dates lately?
The doctor told me I was color-blind, and I've been afraid I'd make a mistake.

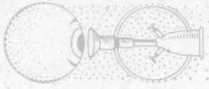
—Chaparral.

A ripe old age is not always to be bragged about. Consider the tomato.

Little Teacher: "Theobald, name the four seasons of the year."
Big Bully: "Football, Track, Basketball, and Baseball."

THE LOS ANGELES DESK CO.
F. R. FEITSHANS, Pres.
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BILL WILLIAMS, *Proprietor* 38 E. COLORADO

WAKEFIELD 8530

SURPRISE YOUR FRIENDS

I had resolved to make myself a social success. Only after many a humiliating failure at harmonica playing, did I realize that SOMETHING had to be done! I looked about me, observed the ways other people chose to make them popular. Always it was the *pianist* who was the center of attraction in every social gathering. An inconspicuous advertisement in a well-known magazine attracted me to your course "Piano Playing Pronounced Possible." I sent no money. In two days I had learned; nay, *mastered*—twenty-nine popular pieces! It was with the utmost of self-confidence that I attended my next party. When Joe asked me banteringly "if I *could* play the piano" I rose with alacrity, moved to the Steinway, and sat down. As usual, they laughed when I sat down at the piano. As I say, THEY LAUGHED! SOME DAMN FOOL HAD REMOVED THE STOOL.

MacDonald, contributor extraordinary to Pictorial Periodicals, pensively proclaims: "It's tough when you go into a dark room for three hours and all you are negatives."

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The SHOP where Courtesy and Service are combined with
Originality, Promptness and Proper Prices

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67 N. RAYMOND

PASADENA

ROSE E. BICKLEY

"The Shop Owned and Run By a Woman"



8267

VARIATIONS

All work and no play makes Jack a dull boy.

All work and no play makes Jack.

All work and no pay makes a dull boy.

All play and no works costs Jack.

Lots of Jack makes all work play.

Son: I wish you would come along and help me select a new suit, old man.

Father: I don't believe my taste is any better than yours, my boy.

Son: No, but your credit is!

He named his child Montgomery Ward, because it was of the male order.

—Minn. Ski-U-Mah.

"I just love card games."

"I like to play poker."

"Did you ever play faro?"

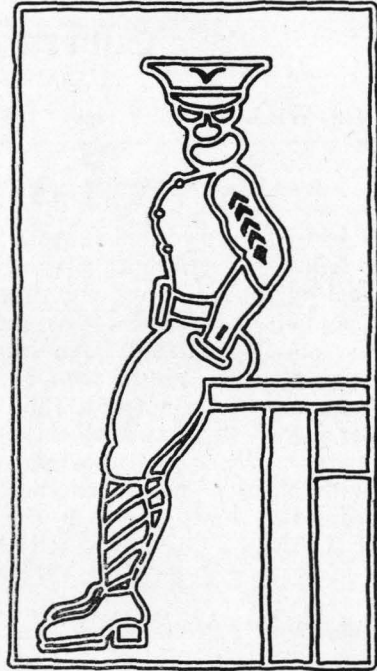
"No. He was before my time."

—Okla. Whirlwind.

"I used to awaken myself with my snoring."

"And now?"

"I sleep in the next room."



Sergeant Plushbottom: "Name one type of High Explosive that we have handled this term."

Demolitions Class: "WOMEN!"

PARKER TYPEWRITER CO.

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“WET PROCESS”

Insures

QUALITY — UNIFORMITY — STRENGTH

SOUTHWESTERN PORTLAND CEMENT CO.

605 New Hellman Bldg., Los Angeles

The only difference between a horse with a broken leg and a dumb co-ed is that you can shoot the horse.

Maxie Mum: “How do you like this dress? I bought it on the installment plan.”

Minnie Mum: “Well, you’d better go back and get a couple more installments—there’s a chaperone at this party.”

Femme: “Now, if I love you, that’s my business, and if you love me, that’s your business.”

Hombre: “Let’s do business together!”

—Log.

No, Johnny, Luther Burbank did not teach the flapper how to cross her legs.

—Log.

Prof: “Am I speaking loud enough?”

Soph: “Hell, yes! I can’t even sleep!”

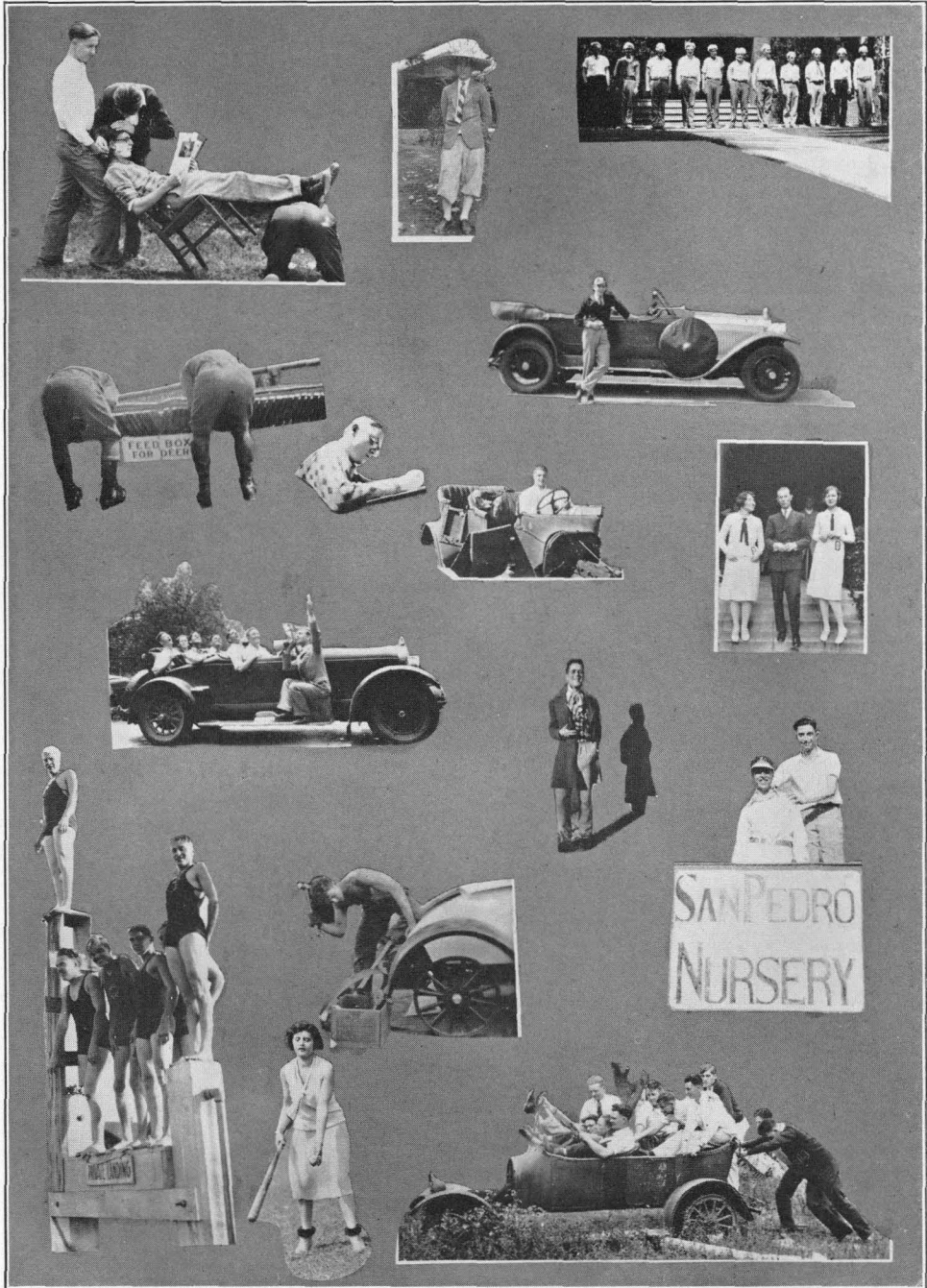
A Scotchman was engaged to a girl who grew so fat that he wanted to break off the engagement. But the girl couldn’t get the ring off, so he had to marry her.

Standard
SCHOOL
SERIES
...the
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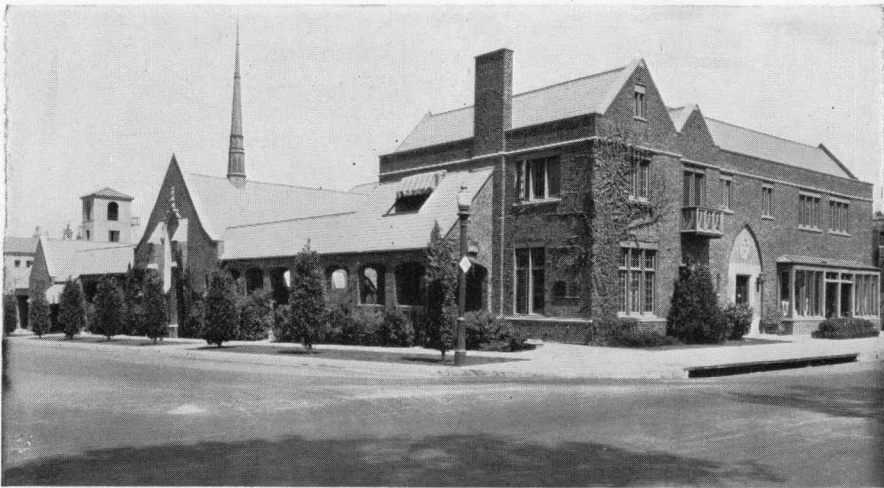
Everybody makes mistakes. That's why they put mats under the cuspidors.

"Hey, you brought me the wrong pair of boots!" shouted Major Mushroom, "Can't you see one's black and the other's brown?"

"I know, sir," sniffed Private Poinsettia, "But the other pair's the same way!"

Did you hear about the little Scotch boy who asked his father to buy him a train? He got two sheets of sandpaper.

—Judge.



TURNER & STEVENS CO.

FUNERAL DIRECTORS

Established 1895

Marengo at Holly



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THE BEST
EQUIPMENT FOR
EVERY KIND OF
ATHLETICS

THE SPORT SHOPS

B.A. Dyas Co.

"Two Stores to Serve You"

HOLLYWOOD

LOS ANGELES

F'HEAVEN'S SAKE

Say, my little peppermint, did you ever hear the excruciating one about the difference between a tree and an elephant? You'll die. Nothing to do with the trunk. I swear you'll get hysterical. It's this way. You know how a tree is. Boy, you'll strain a stay at this one. Well, as I say, a tree leaves with the spring. Now an elephant is different. Oh! You'll pass out cold when I spring it. Gee, it's good. Anyway, a tree leaves in the spring, but an elephant is different, an elephant leaves with the circus.

—Brown Jug.

"I just swatted five flies—two males and three females."

"How can you tell?"

"I got two on the card table and three on the mirror."

THESE BLINDFOLD TESTS

The subject was blindfolded. He was given three cigarettes to smoke, one after the other. To clear the taste, coffee was served between smokes. The cigarettes were numbered one, two, and three.

"Gosh, that's good," he said.

"Which is?" he was asked.

"That coffee!"

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Come In or Phone Us to See the New Royal Portable

We Also Have CORONA, UNDERWOOD and REMINGTON Portables

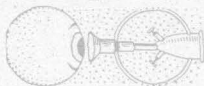
Agent for the Famous Sheaffer Lifetime Pen and Pencil

ANDERSON TYPEWRITER COMPANY

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HERBOLD'S

COLORADO STREET
AT SANTA FE CROSSING

Hand Luggage
Brief Cases
Hartmann Wardrobes

Bridge Prizes



WATCH YOUR STEP, BOYS!

The scene is a sorority dance. Bad Betty had taken advantage of little Louey's innocence and has dragged him over to a dark corner. And he soon learned that the kiss Mother had given him at the station was not so hot.

"Louey, you have enchanted me. I want you to marry me."

"But, Betty, don't take advantage of me. To prove your love to me won't you let me wear your sorority pin to school tomorrow? The boys will all be jealous."

"Yes, darling," muttered Betty as she nervously unclasped that emblem of sisterhood and pinned it on his bosom. "Mine, all mine," she mused. Yes, 'tis leap year.

—Ohio State Sun Dial.

There was a rumor about that the Old Gold ad writer handed in his resignation. One of the blindfold tests didn't come out right.

—Judge.

When the special cop at the fights says he'll throw out the first one who smokes—be nonchalant, light a Murad.

J. F. WINEGART

J. A. PALLOCK

Compliments of The
WINEGART DRUG CO.

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Remember us

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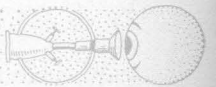
Colorado 5688

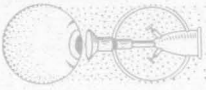
ELiot 2552

I eat my peas with honey,
I've done it all my life;
It makes the peas taste funny,
But it keeps them on my knife.
—Orange Owl.

The traveling salesman put on his most winning smile as the pretty waitress glided up to his table to take his order, and then he remarked, "Nice day, little one."

"Yes, it is," she replied sweetly, "and so was yesterday and my name is Ella and I know I'm a pretty girl and have lovely blue eyes and I've been here quite a while so you see I don't think I'm too nice a girl to be working here anyway my wages are satisfactory and I don't think there's a show or dance in town tonight and even if there was I wouldn't go with you I'm from the country and I'm a respectable girl and my brother is the cook of this hotel and was a college football player and weighs 300 pounds anyway last week he nearly ruined a \$25 a week traveling salesman who tried to make a date with me now what'll you have—roast pork roast beef Irish stew hamburger or fried liver?"





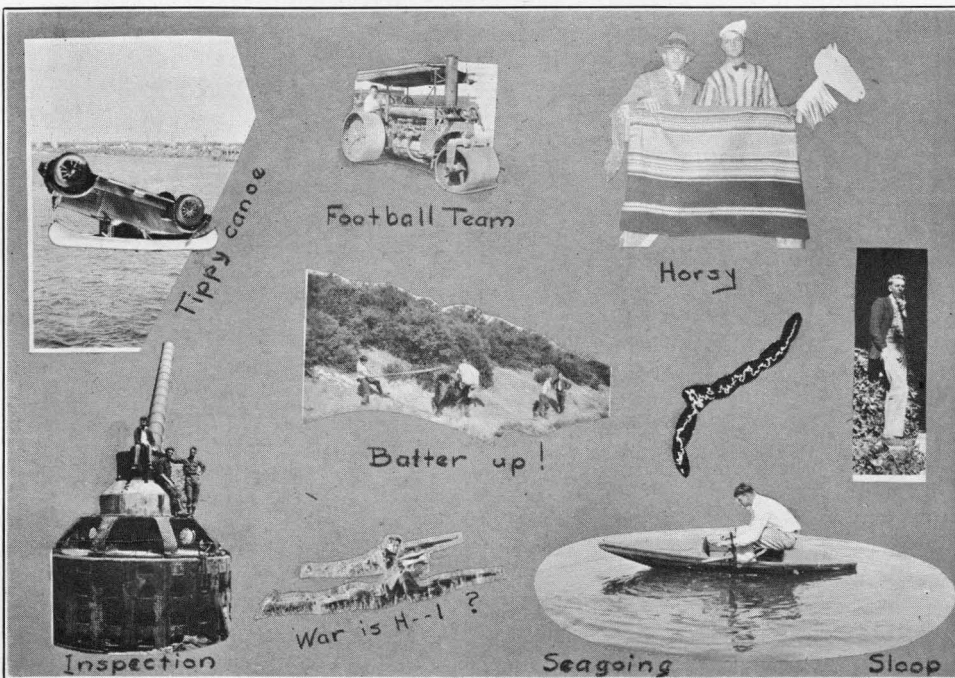
LOST

Gone! Gone! And I must sit alone
 While others to the party go.
 I pace the floor and make my moan—
 I did not know I'd miss you so.

Gone! And it seems but yesterday
 That you were pressed against my heart,
 And life was happy, blithe, and gay,
 Alas! that we should have to part.

Gone! And you were so white and fair,
 And with such dazzling brilliance shone:
 At dances, bridges, everywhere,
 You were my own, my very own!

Gone! Ah, perhaps some other guy
 Has stolen you, and done me dirt:
 I do not know; I can but sigh,
 You're lost, you're lost—my one Tux shirt.
 —College Humor.





876T

KUPPENHEIMER SUITS

Vacation Suits

Four Piece Suits

A Suit with Extra Knickers is Ideal for Vacation Wear - - - motoring - - - golfing - - - or lounging. Here's the suit for you - - -

\$44 — \$50 — \$62.50

H. C. Hotaling & Co.

52 and 54 East Colorado Street

Prof. Hinrichs: "How many times do you have to be told to work with identical units? You can't take 4 pears from 6 apples!"

Stude: "Ah, but sir, one may take 2 quarts of milk from 3 cows."

The wise guy knows how many itches there are in a mosquito can also tell you the number of peeps in a keyhole.

—Log.

Mac pauses to remark that ours is fast becoming a land of closed Bibles —and of open mail-order catalogues.

No one knew that some day little Nina would marry a man by the name of Klock.

—Log.

My DEAR, I am so MAD, I could gargle Brimstone,—I MEAN I ACTUALLY could. These GNOME men make me POSITively ill. Why, GIRLIE, would you beLIEVE—only LAST night Alphonse was taking off his PIN to donate to ME with his EVERlasting love, and ALL that, when my COAT fell open and showed BOB'S and BILL'S pins! AL was MAD, and I DON'T mean appROXimately! DEARie, he was SEETHing and FROTHing at the bouche. Now, do YOU see any REASON for such NARrow MINDedness? I ACTually PALPitated with righteous inDIGnation! And HOW I HATE MEN! . . .

Ivan: "What shall I do if I get seasick?"

Itch: "Don't worry about that—you'll do it all right!"

—Log.

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Telephone TERRace 1825

TAYLOR & KAPPLER

OIL - TIRES - BATTERY SERVICE

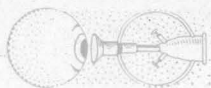
Lake Avenue at California
Pasadena, Calif.

BRADDOCK'S PHARMACY

Now
Consolidated
at

738 E. Colorado
Terrace 5060





ENCORE

The hall was filled with the dense blue smoke from the cigarettes of the men standing about in groups. They were chatting about the various merits of leading musical comedy actresses.

Then suddenly a boy's voice announced: "The curtain is up."

And the men dashed into the next room and leaned far out the open windows, gazing at the windows of the girl's dorm next door.

—Michigan Gargoyle.

SOMETIMES EVEN SOCRATES

would be pressed to know
whether it's the Clothes or
the Man.

Good impressions have a
habit of registering, just
the same.

Desmond's

616 BROADWAY
LOS ANGELES

THE FLAG STUDIO
KODAK HEADQUARTERS
59 E. Colorado Street

MOTION PICTURE CAMERAS
PROJECTORS ACCESSORIES
SERVICE

Kodak Finishing, Enlarging, Copying
"At The Sign of the Spool"

*When You Think Printing
Think*

Mission Press

T. S. HESKETT, Mgr.

28½ So. Fair Oaks

Terrace 4247

FROM ? TO ?

I'm "just a girl," you know, and so
I mustn't dare to say
The things I treasure in my heart . . .
My secrets . . . sad and gay.

I'm "just a girl," and so must wait
Until I hear from *Him*,
The dear thoughts that *I* want to say
To Joe or Bill or Jim!





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SPRING SONG

In the Spring a young man's fancy
Lightly turns to thoughts of Love,
But of other things he dreams, too,
A 4 in Math from gods above.

He knows he should not, in his fancy,
Forget about the Dean's epistle,
Lest, with a C they count him out
After the term's final whistle.

There are heavy, sombre thoughts
To crash his castles in the air.
But they, too, soon are all forgotten,
He's in Love, so why care!

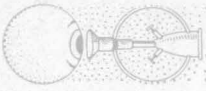
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Moonlight
Hero tight
Car speeds on through lane
Sentimentally
He leans Nor'East
Begging kiss from party jane
No reply
So he sigh
And resolutely shakes himself awake
Lets go the wheel
Provokes a squeal
Both, in fact, from g'rl and brake
Post he missed
So they kissed

C. HAL

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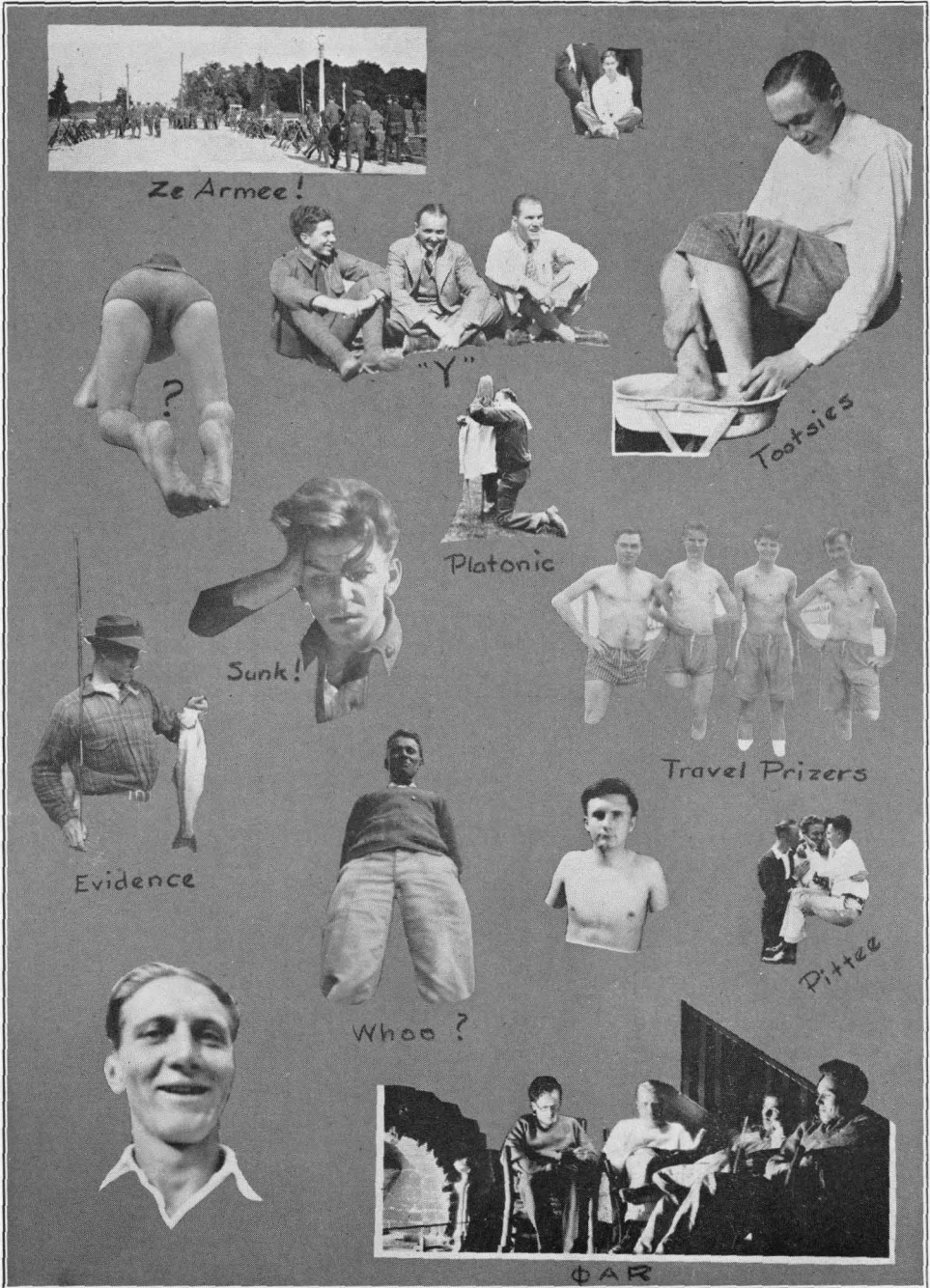
"A Place of Distinction"

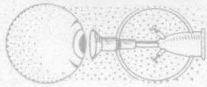
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Sundays, 3 P.M.

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TWO MOVIE TITLERS MEET

"Hello, Wid, where are you going?"

"Hello, Sid. Oh, my mind's just wandering and I'm going along."

"Hear you went to a wedding last night; an affair where the bride is given away and the bridegroom usually sold."

"Oh, yes, one of those occasions when a fellow needs a friend but gets a wife."

"The usual recipe, eh? Take a rich duck, stuff with bologna, add apple-sauce and banana oil, and service hot."

"No, this fellow was a watchman—been a watchman for years because he was such a good looker. Name's Henry Ply; they named him Hen for short because his father was an egg and his mother was some chicken."

"Oh, him. He's been married so often the wedding bells sound like an alarm clock to him."

"And she's walked to the altar so often she's worn out three carpets. There's a little Quaker girl who knows her oats."

"Well, she ought to. She's the daughter of a livery stable man and what awful airs they put on. But her father is as crooked as a plateful of spaghetti. They say even the wool he pulls over your eyes is half cotton. He's so stingy he went to England to live so he could save half his eye-glasses by wearing a monocle."

"Who was the best man—Halitosis Hal, three times a best man and never a groom?"

"No, it was Dan Druff, the kind of a man that girls forget. He's been best man at so many weddings he feels like a referee."

"And he's so thin if he sat on a dime eight cents of it would show. He got that way because he came from a family of contractors. Well—and so they were married to the beautiful strains of the *Prisoner's Song*—I mean the *Wedding March*."

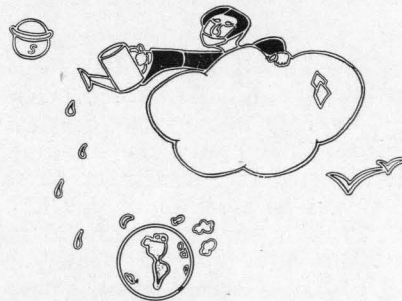
"Yeah, they were married, and following their divorce, will live happily ever after."

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And the rain was hail that day

There was gravel in the sprinkler
So there's nothing else to say

But to charge this joke to Minkler.

Blessings on thee, pretty miss,
With those lips so sweet to kiss!
And thy little turned-up nose,
Tempting me in such a pose;
With thy red lips, redder still,
Will they give me such a thrill?
With the teasing in thy eyes,
Thou art indeed a pretty prize.
Blessings on thee; here's to bliss,
I am going to kiss thee, miss.





PHOTOGRAPHY

By

ALBERT HILLER

STUDIOS

PASADENA

986 EAST GREEN ST.

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The crowd milled and surged about the morgue. A new body had been brought in. A murdered man.

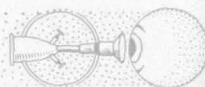
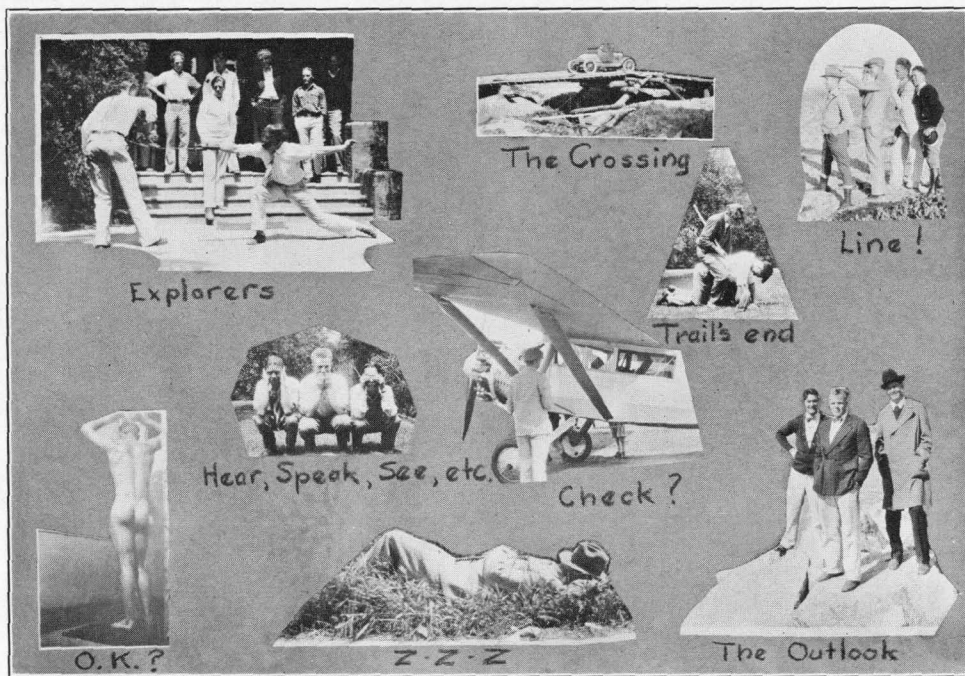
Suddenly an anxious gentleman pushed and elbowed his way through the throng, and into the building. He spoke quietly to the caretaker and was admitted into the inner recess. Shortly after, he reappeared.

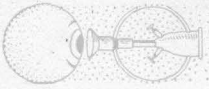
"Was he a friend of yours?" asked the caretaker.

"Yes," came the sorrowful answer.

"But how did you identify him?"

The man wiped away a tear as he chokingly replied, "He was deaf."





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Peek-a-boo



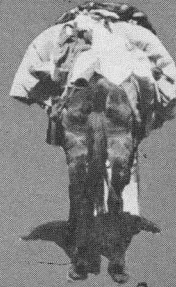
Hooked!



Scandal Sheet



O.K.



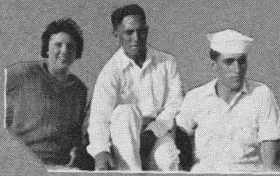
North?



Buggy Ride



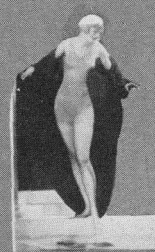
Triangle



Sailors three



Varsity Drag?



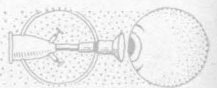
Go-eds

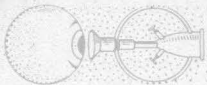


Nize!



3 inseparables





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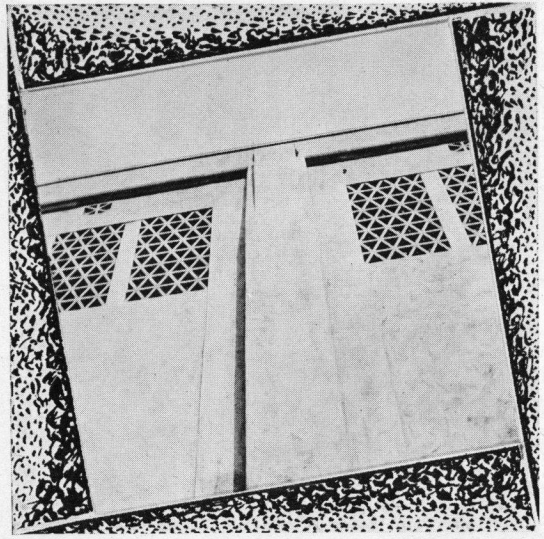
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