

ASCIT Runoff Election Today

while Bill Woods trailed them both with 117. The 418 votes meant that only about half the student body wished to exercise the franchise in filling this important post. Bud Mittenthal, in addition to serving as president of his class, is a member of the rally committee, and held the office of Secretary of his class last year. Bill Smyth is acting First Rep, and the forthcoming ASCIT dance on the 31st of October is largely his work. Bill also won an honor key in 1946 for his participation in extra-cur-

ricular activities.

For the election the polls will be open from 12:30 to 4:15, and will be located at the same places as last election, with the exception that there will be no booth outside the library. A list of polling booths appears elsewhere on this page. Remember that ASCIT student body cards must be shown when you vote.

PAJAMARINO
ADE TONIGHT

CALIFORNIA TECH

TAME
TIGERS
TOMORROW

Volume XLIX

No. 3

California Institute of Technology
Thursday, October 23, 1947

Tigers Open Conference Against Beavers Friday

Tiger Passing Combs May Not Go; Person To Shoot Works For Win

Caltech and Occidental, grid rivals since 1895, clash Friday night at the Rose Bowl in their annual "Big Game" with the Bevos in their customary role of underdog.

This will mark the 34th meeting of the two schools, the series standing 21 wins for Occidental to 10 wins for Caltech with two ties.

Anything can happen in this game and usually does. There will be plenty of aerial fireworks, but both teams boast flashy passing. Caltech will rely on Glenn Tassey, triple-threat southpaw and right-handed passer; Don Frank, Jerry Wozniak and Jim Gorman.

Tigers Injured

Caltech's key passer, Don Frank, was injured in the San Diego State game, and his best back, Bob Levin, end, also was lost. But "Dusty" Rhodes, Tassey and Joe Johnson will be ready to fill in for the injured Tigers. Tassey also boots from high and far and probably will match kicks with Tech's Chaffee.

Last year's game ended in a surprising 19-to-6 victory for Caltech, and many of the 1946 veterans are back on both clubs. This year, however, Oxy has more reserve strength — but Caltech boasts speed, a tricky running attack and a fine, hard-hitting line.

Coach Mason Anderson of the Engineers has been drilling his boys on pass defense. So has Coach Roy Dennis of the Tigers. But either team can break away.

(Continued on Page 2)

McMurray Opens "Y" Forums Mon.

Former Congressman From Wisconsin to Lead Discussion

Dr. Howard J. McMurray, Professor of Political Science at Occidental and former Congressman from Wisconsin, opens the Y Monday Evening Forums with "What's Wrong with Congress Today," Monday, at 7:30 P.M. in Room 119, Kerckhoff.

Well Qualified

He is eminently qualified to speak on this subject because while in Congress he was one of the outstanding younger Congressmen. Previous to that he was a member of the Political Science Department of the University of Wisconsin. He received his A.B. in 1936, his M.A. in 1936 and his Ph.D. in 1940, all from the University of Wisconsin.

Series Continues

Carl Price, head of the Y Forum Committee, announced that two weeks later Dr. McKelvey, also Professor of Political Science at Occidental, will continue the series with a forum discussing the Marshal Plan. Dr. McKelvey was one of the most popular men appearing on the campus last year and with these two excellent speakers the Y is sure of a good start on an interesting series of forums. The third in the series will be November 17th and will be a panel discussion by four well-known economists.

New "Y" Cabinet Members Named

This year the "Y" Cabinet is composed of 18 active members interested in promoting the "Y's" activities on campus, it was announced by its president, Dick Alexander. The Cabinet meets every Wednesday evening to discuss the varied phases of the program for the coming year. Elected last spring to help Alex during the current school year are Bill Muehlberger, vice-president; Elroy Chinn, Secretary; Dave MacKenzie, Treasurer; and Burt Housman, National Representative.

Committees

Bill Boutelle heads the very active Social Committee. All the Frosh remember the very successful Tea Dance held at the beginning of this term. Many more social functions are being rapidly lined up.

Keith Kohnen is in charge of

(Continued on Page 2)

Want Key Men

All men who have master keys to any portion of the student houses in their possession must report to the Student House Business Office by Monday night, Oct. 27.

An individual having an undeclared master key in his possession after this date is subject to Board of Control action!

Pajamarino Bonfire Burns Tonight



PARADERS—Pasadenans will view a scene similar to the one above, last year's Pajamaramch, when Beavers rally tonight.

Rhodes Application Deadline Near

Students interested in Rhodes Scholarships still have until November 1, 1947, to send their applications to the Secretary of the State Committee of Selections. By that date the applications must be in the hands of the State Secretary, Prof. J. W. Olmstead, of 405 Hilgard Ave., Los Angeles 24.

This year in addition to the 32 Regular Scholarships there are 16 War Service Scholarships; added because there were no scholarships offered during the war. The grant also includes 400 Pounds which may be supplemented by an additional 100 Pounds.

Blanks

Professor C. K. Judy, Room 307, Dabney Hall, has complete details and application blanks.

Candidate requirements for a Regular Scholarship are:

1—Must be a single male citizen of the United States.

2—Must be between the ages of 19 and 25 on Oct. 1, 1948.

3—Must have completed the Sophomore year by the time of application.

Candidate requirements for War Service Scholarships are:

1—Must be a citizen of the United States.

2—Must be between the ages of 19 and 33.

3—Must have completed 1 year of War Service (Armed Forces or Civilian War Work for which deferment was granted by Draft Boards.)

4—Must have completed 1 year of work at college level.

The selected Scholars will start at the University of Oxford on Oct. 1, 1948.

Hal Lomen To Play At Faculty Dance

The faculty and grad students of the Institute will drop their serious mien this Saturday and for a few short hours relax in the first gala social function of the Athenaeum fall season — the Hallowe'en Semiformal.

Hal Lomen's orchestra will provide the music from 9 on for the professors and grads.

SENIORS

The Pepsi-Cola Company is offering 26 fellowships to outstanding seniors throughout the country.

Selection is on a regional basis with six men chosen from each region.

The fellowships offer tuition and a subsistence allowance of \$750 per year, and the student may attend any accredited graduate school in the country. If you are interested in applying, see Dean Eaton soon. All applications must be in by Jan. 1.

Beadle, Pauling Receive Honorary Degrees At Yale

Two Caltech scientists, Dr. Linus Pauling, chemistry division chairman, and Dr. George W. Beadle, chairman of the division of biology, last week received honorary degrees of doctor of science at Yale University. The degrees were conferred by Dr. Charles Seymour, Yale president.

Both professors were Silliman Lecturers at Yale this week at the celebration of the centennial of the Sheffield Scientific School.

Crystal Structure Explored

Dr. Pauling was cited not only for outstanding work in his own field but "in the area where it bears on physics and biology."

Peering closely into the inmost structure of matter he has endeavored to find how atoms are constituted and how they are built into complex molecular patterns.

To this end he has studied crystal structure by X-rays, employed the discoveries of quantum mechanics in investigating atomic and molecular configurations, examined the structure of gaseous molecules by the technique of electron diffraction and is now marshalling evidence from the wide field of immunochemistry as to the molecular structure of antigens and antibodies — a subject which transcends merely theoretical interest because of its significance in the great problem of disease."

Dr. Beadle's citation stressed his work on the fundamental question of how it is that genes

(Continued on Page 2)

Occidental Delegation Visits Tech Campus

SPECIAL (WED. A.M.): A delegation of some thirty odd Occidental students visited the Caltech campus last night. Arriving unexpectedly, they nevertheless found that preparations were not wanting for their visit.

In fact, Caltech hospitality was so pronounced that practically everybody in the student houses

rushed over to Tournament Park to greet the delegation with open arms.

Coolish?

In the meantime, however, the Tigerovars, possibly not used to the coolish Pasadena climate, ill-advisedly had tried to get a fire going. These attempts were quickly discouraged, however, and in true courteous Tech tradition, the Eagle Rockians were escorted by the brethren to the

(Continued on Page 6)

POLLING PLACES

- Student House Courts
- Throop Club
- Front of Dabney Hall

Traditional Pre-Oxy Game Rally To Displace Evening Snaking

Roaring Fire, Moonlight Parade And Women To Warm Tech Spirit

Tournament Park is the place to be at 6:30 tonight—decked out in your gaudiest pajamas, but wear enough clothing under your outfit to keep warm and bring your best sense of humor. Rally Commissioner Jack Ottestad has arranged a fine evening for all and the Pajamarino of 1947 should prove to be one of the best ever.

Lindvall, Millikan Pauling Will Act As Hosts Sunday

Hospitality is breaking out all over the campus in the next two weeks. On Sunday, October 26, the first "Y" Sunday Firesides will be held. Three faculty members will act as hosts to a group of students on Sunday evening between 7:30 and 9:30. Although anyone may attend, see the men listed if you wish to go, since the hosts can take care of only a certain number.

The hosts for next Sunday are:

Dr. R. A. Millikan

See Tom Tracy in Ricketts.

Dr. F. C. Lindvall

See Bill Muehlberger in Dabney.

Dr. Linus Pauling

See Jim Luscombe in Fleming.

Coming Attractions

On Sunday, November 2, another group of men will be entertained. The hosts for that week will be Dr. Donald Clark, Dr. Ray E. Untereiner, and Dr. Pauling again. If you wish to be a guest of Dr. Clark or Dr. Untereiner, see Tom Tracy in Ricketts. John C. Lewis in Fleming will take the names of those whose wish to visit Dr. Pauling for that week.

Halloween Sport Dance To Feature Boyer Orchestra

On Friday, Oct. 31, the first student body dance will be held at the Glendale Civic Auditorium. For this Halloween dance LaVerne Boyer and his orchestra has been engaged to provide the music to which Techmen and their dates will frolic.

Sport clothes will be in order in keeping with the general informality of the Halloween season. From nine to twelve P.M. is the time set for the Techmen to extract the maximum amount of pleasure from the evening.

No Fee

The admission is free to all members of the student body, since the admission was included in the student body dues. The only requirement for admission is your Student Body card, which is your pass to pleasant evening of dancing.

Acting First Representative William Smyth has prevailed on three members of the faculty and their wives to act as chaperones. The privileged faculty members and their wives are: Mr. and Mrs. Brockie, Mr. and Mrs. Tanhan and Mr. and Mrs. H. McCreery.

A map showing the best routes to the Glendale Civic Auditorium will appear in next week's paper.

If you have not yet obtained your date for this event rush to the nearest phone and rectify your mistake before it is too late.



GALS—Back for a return engagement at tonight's Pajamarino are the PCC Highlighters, two of whom are shown above.

cheers will be followed by a preview of the big game tomorrow by Coach Anderson. The parade will follow the yell, starting at 9:00 o'clock at the gates at the west end of the Park.

Route of Parade

The parade will proceed down Wilson Ave. to California Street; down California Street to Lake; up Lake Street to Colorado; down Colorado through the heart of Pasadena to Raymond Ave.; up Raymond Ave. to the Pasadena Armory, located just north of the Raymond Theater.

Five cars and two trucks will be in the parade. However, anyone desiring to put a car in the parade see Jack Ottestad beforehand, as all cars have to be decorated in a certain manner.

Armory Program

Jack refuses to give out much information about the program; however, he says that the P.C.C. Highlighters will help

(Continued on Page 2)

Qst Qst Qst

To all past, present and future hams, and anyone else interested in amateur radio: the Caltech Radio Club will hold a short meeting at 12:30 p.m. tomorrow, Friday, in the Fleming House fan room, located at the north end of the alley directly above the lounge. The subjects will be activities for the coming year, and membership in the club. Everyone interested in amateur radio cordially invited.

The California Tech

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Musical Baedecker

Last Tuesday saw the opening of the current Los Angeles Music Guild concert series in a recital of chamber music featuring the Budapest Quartet. Season tickets, including a special group at reduced prices to colleges and universities, were offered for sale early last month.

* * *

It was gratifying to see that quite a few Techmen took advantage of this unusual offer: the first concert saw many of the familiar eager faces of Tech music lovers clustered in one corner of the Wilshire-Ebell Theater, in addition to others scattered throughout the audience. They were in excellent form, too: the fact that many of them had obtained their tickets at a cheaper rate did not prevent them from—in fact, rather seemed to—encourage them to—comment adversely on the indifferent playing of Josef Roiman, first violinist.

The series is unfortunately sold out. A few single tickets are sometimes offered for sale, however, by individuals, through the good offices of the campus Y.M.C.A.

—Charles Susskind.

Musicale

The Caltech Musicale's series of informal concerts of recorded music will be continued on Sunday, October 26, 1947, in the lounge of Dabney Hall.

The program will include overtures to Freischütz and Tannhäuser, Mahler's symphony "Das Lied von der Erde," and selections from Richard Strauss' opera, "Der Rosenkavalier." The concert is scheduled to begin at 7:30 p.m.

TIGERS OPEN

(Continued from Page 1) at any time on the ground. So a lot depends on line play, rushing and the breaks of the game.

The Caltech and Oxy Frosh meet at 5:45 in a preliminary tussle.

sentative to the Asilomar committee. Rumor has it that this year's Asilomar Conference will be the best ever. The World Peace Group, which is led by Dave Metzler, is working on a world correspondence program. Last, and one of the most important committees, is the World Student Service Fund, which is jointly headed by Burt Housman and Frank Wolf.

One of the most active committees of the "Y" handles Faculty Firesides, which is now moving at a white heat under the able direction of Tom Tracy. Gene Shoemaker is in charge of the newly organized group of graduate students interested in the program of the "Y" and he heads the Graduate Relations Group. Bob Crichton is the Tech repre-

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Whether Pigs Have Wings . . .

by The Walrus and the Carpenter

Here behind the Looking-Glass we have many strange and wonderful things, one of the least peculiar being the "phenomenon" of talking oysters—in fact, most everything back here talks, even . . .

My Name Is Ferdinand

When they first look through the glass window at me their expressions all seem to have the same degree of disbelief, even disdain—as though I didn't really belong, indeed as though I had done something wrong . . . it really hurts sometimes. Of course it was all very stupid from the very beginning . . . back there in Ames, Iowa . . . at the Collegiate Manufacturing Co. What I mean is that my creators, contrary to what you may think by looking at me, were completely unimaginative. Oh, the artist who dreamed me up was clever enough—a splendid job, don't you think, the proud curve of my horns, the majestic thrust of my chin, and the powerful breadth of my chest? But those pathetic peons on the assembly line! As they stuffed my body and sewed me up, all I could hear all day long was platitudes after platitudes: the union this, the government that . . . believe me, I learned a lot.

But for all they cared, I was just a toy . . . the epoch of my creation was to them nothing more than a few dollars in their pockets. And to make tragedy out of mere disconcert—my christening! Around my sturdy neck they tied the card with my name: "Bull," it said. That's all, just "Bull." Now I ask you, could anything have been more trite?

I got over it in time, naturally, and finally affixed upon myself a more distinctive title—it's **Ferdinand**, incidentally . . . oh, not so very original, I suppose, but you can have no conception of the jab I feel when I watch them through the window and see their lips form the word "**Ferdinand**. It's quite surprising the number that seem to know my name right off, without having to peer inquisitively at the card hanging at my neck.

* * *

In spite of my rather miserable existence back there at the factory, I shall never forget the day I saw the packing crate marked **Book Store, Calif. Inst. of Technology**. My orange nostrils quivered and my back bristled in excitement—and when I was chosen! Well, my elation was unbounded; I was in rapture! The big orange letters **CIT** were sewn on my white chest and . . . well, here I am! You see, at that time I considered myself a child of science, so to speak, a precocious infant of the production line (I was always more philosophic than any of my com-

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Campus Brewin's

Our tirade about the pulchritude of Techmen's fraulines in last week's column had its desired effect; as all five houses burst forth with tremendous zeal providing me with plenty of scandal and etc. to fill a whole newspaper. We will get down to the bare facts and examine each house scientifically.

* * *

I was plunked down in the window together with **Stinky** (the black and orange skunk,) there to survey the inspired young demi-gods of Humming Humanity. And what did I see? An interminable stream of scurrying young disciples, each intent upon something—something important it seemed. And I? I was rarely noticed, only occasionally pointed at—and even then condescendingly. I remember one night when a visiting coed and her escort stepped out of the shadows of Throop Alley and confronted me. She calmly recited: "It's a symbol of frustration. All stuffed animals are stupid things. To own one is simply to admit sexual frustration!" Well, comments such as that were distressing to say the very least. For a time I was deeply disenchanted.

However, after considerable mental turmoil I finally reached an equitable solution; I should have known from the first that I could be happy only in Wonderland. So once again I'm a child of fantasy rather than of science. It's much better this way, really . . . and I'm progressing very nicely with **Stinky** . . . she's pretty dumb, you know, but I'm what you might call her "Hero." Perhaps . . . well, perhaps I've found a home here after all.

BEADLE, PAULING

(Continued from Page 1)

control developmental processes in plants and animals and for his "still more intensive attack on this problem by his studies on the pink bread mold, Neurospora, where by combining the techniques of genetics, radiobiology and biochemistry he has discovered the precise chemical step which is governed by each of a series of genes in the progress of development."

PAJAMARINO BONFIRE

(Continued from Page 1)

Connie Boswell and a yet-undisclosed "big-name" quartet of male voices. The show will start at 10:00 p.m. and last for about an hour.

After the program, there will be a short rally at 11:15. Trucks will make three or four trips to haul the weary troops back to the snake pits, where they can fall asleep dreaming of beautiful women.

In light of the same occasion, some unknown Blacker inebriate

(Continued on Page 6)

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Your Campus

—by John Whittlesey

This week "Your Campus" moves off-campus in an attempt to impart some much-needed and very useful information.

Since it is the policy of this column to cover ALL the labs and activities around campus, it is fitting that this "lab" subject—upon which probably more hours of earnest effort are devoted per week than any other course—be treated here.

Hence, the following: A list, probably partly incomplete, of pertinent phone numbers, from U.C.L.A., S.C., Scripps, Pomona, and Oxy:

SOUTHERN CAL:

RI. 4111

Sororities:

Alpha Chi Omega PR. 79387

PR. 79349

Alpha Delta Pi PR. 69205

PR. 69390

Alpha Epsilon Phi PR. 79373

PR. 79127

Alpha Gamma Delta PR. 79127

PR. 79088

Alpha Omicron Pi PR. 79179

PR. 79078

Alpha Phi PR. 79124

AR. 99057

Alpha Xi Delta AR. 99310

AR. 99205

Delta Gamma AR. 99109

AR. 99420

Delta Delta Delta AR. 99292

AR. 99346

Delta Zeta AR. 99189

AR. 99123

Gamma Phi Beta AR. 99290

AR. 99025

Kappa Alpha Theta AR. 99025

AR. 99022

Kappa Delta AR. 99083

AR. 99242

Kappa Kappa Gamma AR. 99024

AR. 96741

Phi Mu AR. 99133

AR. 97239

Phi Sigma Sigma AR. 99048

AR. 99035

Pi Beta Phi AR. 99256

AR. 99147

Sigma Kappa AR. 99147

Theta Phi Alpha AR. 99301

Theta Upsilon AR. 99060

AR. 99211

Zeta Tau Alpha AR. 99186

Other Houses:

Mira Hershey Hall AR. 99516

Hilgard Club (Co-op) AR. 99219

Mathewson Club

(Co-op) AR. 99132

Twin Pines (Co-op) AR. 96517

AR. 99191

Bannister Hall AR. 99177

Douglas Hall AR. 99031

OCCIDENTAL COLLEGE—

Office Albany 1151

Orr Hall Cleveland 69524

Erdman Hall CL 69252

Haines CL 69422

69526

La Casa CL 69166

Alpha Sorority CL 63334

Beta Phi Delta Albany 4362

Clark Hall Claremont 7521

Delta Omicron Tau CL 76970

Columbia House

Nicholls House PR. 79445

CL 64221

Claremont 7921

College Training Offered By Navy

November 10th and December 13th are red-letter days for those who are interested in the Navy's new COLLEGE TRAINING PROGRAM.

December 13th is the date of the nation-wide competitive examination the Navy is holding to choose several thousand young men for this program. Nov. 10th is the deadline for all applications to be in the hands of the examining board.

To get an application in on time it should be mailed before that date to the Naval Examining Section in Princeton, N.J.

Commission

To each man selected, the Navy is offering a college education and commission as an officer in the U.S. Navy or U.S. Marine Corps. He may choose the field in which he would like a bachelor's degree and may also be able to go to the college or university of his choice. The government will pay his tuition and normal fees, buy his books and necessary uniforms, and also give him \$50 a month.

Eligibility is limited to unmarried male citizens of the United States; but if you are interested (or know someone who would be interested) don't delay! Remember that the competitive examination will be given on December 13, 1947, but your application to take the examination must be received by the Naval Examining Section, Princeton, New Jersey, by November 10th.

POMONA COLLEGE—

Office Claremont 7111

Harwood Hall Claremont 7611

Mudd Blaiszell Claremont 7711

SCRIPPS COLLEGE

Office Claremont 6161

Dorsey Hall Claremont 7501

Toll Hall Claremont 7511

Clark Hall Claremont 7521

Browning Hall Claremont 7531

Columbia House Claremont 7921



Harris and Hoganburger

Harris Happily Hauls Home Huge Hoganburger

Staid Fleming house had an unexpected visitation Saturday night. Among the accumulated multitude, some persons opined that the strange object most resembled one of familiar sedentary use; others reasoned that it was a new Frosh who had perhaps just registered.

Uncertainty was dispelled by the apparent possessor of the object, beaming Bill Harris. "You gaze," he explained, "with evident awe, upon the first Hoganburger ever taken into captivity."

Bill's Got It

And so it was. Harris had done the improbable—he had won the Hoganburger weight-guessing contest; his guess was the closest of the multitude of Hawthorne fans, but the general literacy of this audience should not detract too greatly from the victory.

"You really had to have it," proud Bill continued, "in order to guess the weight of this Hoganburger."

All agreed: Harris had it—now, what to do with it?

Frosh Interned

All day Sunday, calls of Frosh! Frosh! resounded through the house as ministering freshmen in medical regalia attended prostrate overlings with buckets and other containers.

As for the remainder of the Hoganburger, no one seems to know what happened to it.

It is rumored that the Pasadena Sanitation Commission is now tracking it down, however.

47-48 Enrollment Slightly Lower Than Last Year

Pasadena, Oct. 5.—Students from 40 foreign lands are among the 1320 students who have completed registration at the California Institute of Technology for the 1947-48 school year, Dr. Lee A. DuBridge, president, announced today. This year's enrollment is the second largest in the history of the school and the number of foreign lands represented is the greatest the Institute has ever had. Total registration this year is only slightly lower than last year when the average number of students for the year was a little over 1350.

Although figures on veteran enrollment are not yet available, it is expected that the percentage of G.I.'s will be somewhat lower than last year when more than 70 per cent of all students had been in the armed forces.

Hold Gathering

The Inter-Nations Association, comprising Caltech students from all 40 foreign lands and this country, held a get-acquainted party Oct. 4 at the Athenaeum. President of the Association is Patrick Michael Quinlan of Ireland, and Mrs. Jerome Seitz, now of Pasadena but formerly of Brazil, is social chairman. Miss Esther Gilbert is membership chairman. Professor Horace N. Gilbert, chairman of the faculty committee on foreign students, addressed the gathering as did also Dudley C. Monk, head of the United Nations organization in Pasadena and a member of the association. This was the first of a number of programs planned for the year.

Countries in addition to the United States which were represented at the party by students included Cuba, India, Malaya, Iraq, Brazil, Turkey, Egypt, Palestine, Puerto Rico, France, China,

Canada, Austria, Norway, Belgium, Switzerland, Colombia, Lebanon, Hungary, Holland, England, Mexico, Italy, Australia, Sweden, Honduras, Wales, Argentina, Iran, Germany, Burma, Peru, Ireland, El Salvador, Siam, South Africa, Uruguay, Czechoslovakia and Yugoslavia.

This is the first of a series of meetings sponsored by the World Peace Group designed to promote international understanding and co-operation.

Dr. Hunter will remain for further discussion during the noon hour and off-campus men are invited to bring their lunches and eat in the "Y" lounge.

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na, Canada, Austria, Norway, Belgium, Switzerland, Colombia, Lebanon, Hungary, Holland, England, Mexico, Italy, Australia, Sweden, Honduras, Wales, Argentina, Iran, Germany, Burma, Peru, Ireland, El Salvador, Siam, South Africa, Uruguay, Czechoslovakia and Yugoslavia.

WHEN YOU ARE HUNGRY WHEN YOU ARE THIRSTY

or

WHEN YOU JUST NEED RELAXATION

IT'S THE

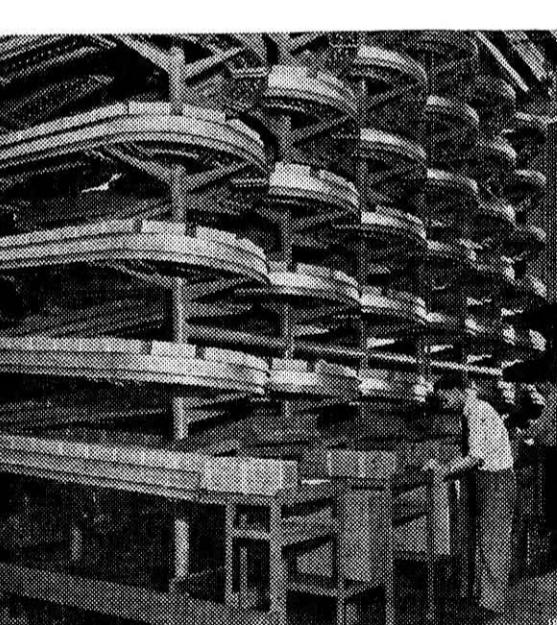
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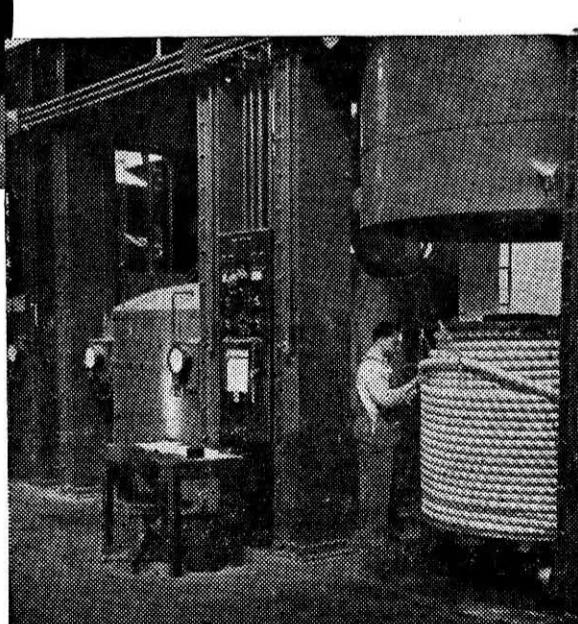
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Here you see the "wind-up" of nearly two miles of overhead conveyor lines designed by Western Electric engineers for their vast new telephone-making shop in Chicago. As finished telephone sets near the end of the assembly and inspection line, an electronic selector unerringly sorts out six different types, directs each type down the right one of the six different chutes for packing and shipping. Not one second is wasted. This conveyor system is capable of handling 20,000 telephones per day.

**Faster way to dry cable**

Before getting its protective lead sheath, telephone cable must have every bit of moisture removed from pulp insulation and paper covering. To gain greater efficiency than the horizontal steam drying method, which used to take 24 hours, Western Electric engineers designed a battery of cylindrical vacuum ovens which are lowered over reels of cable. Electric current is then passed directly through the wires of the cable, heating it to 270°F. As much as 6 gallons of water is driven out of the insulation in just an hour and a half!

Western Electric

A UNIT OF THE BELL SYSTEM SINCE 1882

Engineering problems are many and varied at Western Electric, where manufacturing telephone and radio apparatus for the Bell System is the primary job. Engineers of many kinds—electrical, mechanical, industrial, chemical, metallurgical—are constantly working to devise and improve machines and processes for mass production of highest quality communications equipment.

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Hickey Third In Foils Competition

Fighting in Prep foils competition for the first time, Mal Hickey won third place in a field of 20. The match, sponsored by the Amateur's Fencing League of America, was held at the Los Angeles Athletic Club last Friday, October 17.

Uses French Style

Employing the French style, Hickey outpointed his way through a round-robin comprised mainly of fencers using the Italian style, to become eligible for the final round of six men, only there to succumb to two more-experienced men. Col. Cherny, the Tech team's instructor, accompanied him. Next week-end Hickey will again compete in the Prep division.

BOB WALQUIST
Cal Tech Tackle

Income Keeps Institute Deficit Manageable--DuBridge

Income from \$4,777,000 in endowment gifts to the California Institute of Technology which have been made, or have matured, this past year enabled the Institute to keep its deficit for operations for last fiscal year to a manageable size, Dr. Lee A. DuBridge, Caltech president, reported.

Dr. DuBridge said that in addition to this amount the Institute had also received gifts earmarked for current operating expenses, specific research projects, scholarships and fellowships totaling \$295,712. These gifts are separate from those for endowment.

Endowment

Endowment gifts were as follows:

Bequest of John H. Eagle who left four-fifths of his residuary estate to the Institute, settlement of which is nearly completed, and which will yield approximately \$3,500,000.

Bequest of Henry M. Robinson of an endowment fund for work in Astrophysics amounting to \$488,000.

Bequest of Mrs. Louise E. Kerckhoff for a William G. and Louise E. Kerckhoff Endowment Fund for work in biology, \$400,000.

Bequest of Mrs. David Lindley Murray to found an educational and scholarship fund in honor of her husband, \$310,000.

Gift of Frederick Roeser to establish a loan scholarship and research fund, \$59,000.

Preisler Named New Frosh Coach

Edward T. Preisler is Caltech's new Freshman football and basketball and varsity baseball coach.

Coach Preisler is a former San Diego State star athlete and comes to Caltech from Colton, where he coached at junior varsity sports. At San Diego State he was chosen the all-around athlete of the college for two years and earned varsity awards in football, basketball and baseball three straight years. He made all conference honors three years in baseball and one year in football and was a member of the San Diego State basketball team which won the NACBA title at Kansas City.

After his graduation from San Diego in 1941 he coached and taught at Carlsbad Union High School, leaving there to enter the Navy in 1943. While in the Navy as a gunnery officer in the armed guard he helped organize various leagues and tournaments while ashore in Nova Scotia, France and Italy. He also played on and helped manage the Navy Separation Center baseball and basketball teams at Terminal Island.

Other Gifts

Gift by Industrial Relations Counsellors of a fund collected from various industries to establish a Clarence J. Hicks Memorial Fellowship Fund in Industrial Relations, \$20,000.

Gifts for other than endowment were as follows:

A National Foundation for Infantile Paralysis grant of \$300, (Continued in Column Six)



OXY STALWART—Roy Baly, stellar Tiger guard, captains coach Roy Dennis' eleven this year.

McCreery, Paul Join Sterling Takes Humanities Division War College Post

New members of the California Institute of Technology Humanities Division faculty for the coming year include Dr. Henry McCreery and Dr. Rodman Paul.

Dr. McCreery, who joined the faculty as assistant professor of history, comes here from Stanford where he obtained his doctorate degree and was a Rockefeller Fellow. He is a graduate of Princeton University and was on the staff of Roberts College in Turkey. He also studied in Munich and Paris.

Yale, Harvard

Dr. Paul, who comes here as associate professor of history, has been an instructor in history at Yale University for the past year. A graduate of Harvard, where he also obtained his doctorate degree, he was an instructor and tutor at that school from 1938 to 1940. He was assistant dean of Harvard College in 1937-38 and 1942-43. From 1943 to 1946 he served with the U.S. Navy.

His special field is American History, particularly California history and he has just published a book, "California Gold," dealing with that subject.

Dr. J. E. Wallace Sterling, Edward Harkness Professor of History and Government at the California Institute of Technology, has joined the resident faculty of the National War College at Washington, D.C., for the autumn semester. Dr. Lee A. DuBridge, Caltech president, announced. Dr. Sterling will be one of four or five civilian members of the resident faculty whom the government has selected from nationally known instructors in international affairs, Dr. DuBridge said.

Prior to going to Washington, Dr. Sterling spent two weeks at Dartmouth College attending a seminar on problems of U.S. foreign policy which was organized by the Brookings Institution.

International Politics

The National War College, which was established last year, will give some 110 carefully chosen students an intensive course on international politics, economics and security. Ten or 12 of these students are from foreign service and the others highly qualified and experienced

Occidental Report...

BY KEITH STILES

Feature Editor, the "Occidental"

Ex Staff Editor of the "Tech"

Ho, all you lovers of steam tunnels. Also, all you engineers that are struggling to make that old 1.9 business. Do you suffer from a loss of women? Do you rush for a front seat at those certain times a year? If so, then Oxy is the place for you. Land of much time, many women and little work, it's a paradise for you guys. Even I am getting by.

But tomorrow night our happy and otherwise pass will cross. And you'd better be pretty good. At least, I sincerely hope that Andy's beef trust will at least be able to turn their necks fast enough to watch us go by. But, of course, with guys like Muehlberger and Powell, there's so much to turn that trails so FAR out behind . . . Oh, well . . .

Bonfire Blues

If you have a fire left for tonight, that's too bad. We've failed, but not because we didn't try. When we have a bonfire, we don't have to employ all the works of modern science to protect same.

If something, by pure chance, of course should happen to it, well that would be tough. I went out to look at the old brush pile, but wasn't quite sly enough. Coach Musselman had me nailed, and immediately put out furious smoke signals from that famous Corona Corona. There was a captured before the darn thing rush, a crash, and here I am—even starts.

I can only hope that when you guys come over to Oxy that we can treat you half as well. Of course, we'll be waiting, why don't you guys drop on over?

The Complete Dope

Upon Herzog's beating me with a big black hose, here's the dope on Oxy. They're mad—mad clear through, and figure that last year was just a fluke—so they will be out for blood.

And besides, they will be inspired. Reason—one-half of our student body is one heck of a lot more inspiring than one-half of yours. With that I'll slip out of the door before they see me.

Army and Navy personnel.

Except for the year 1939-40 when he did research in Canada as a Rockefeller Fellow, Dr. Sterling has been at Caltech since 1937. He came to the Institute from Stanford University, where he was a member of the research staff of the Hoover War Library.



BILL MUEHLBERGER
Cal. Tech Half

Frosh Sport Roundup

—By Jim Gillett

Though the Frosh grid squad lost a heart-breaker to the P.C.C. reserves in their opening game, they have a lot of spirit and are hoping to have a pretty fair season.

The coming contest with the Oxy Tigers tomorrow night will be one of the hardest the Frosh Engineers will undertake, and a victory for the Beavers would put them right out in front of the field.

Ed and Nevill, the coaches, have been putting on the pressure this week to get their men in top condition, and have been working more with the reserves. In the P.C.C. struggle, Techmen found themselves shortwinded and more tired than they should have been.

Too many of them were kept in beyond their endurance because the reserves weren't able to play the crucial second half. The emphasis has been on training calisthenics and fundamentals rather than on plays which were running smoothly for the most part Saturday.

Water, Dust

Ollie Gardner, manager of the water polo team, says the Frosh have shown up well against the varsity in scrimmages so far. There are at least two outstanding players on the squad and all are above average.

A Freshman cross-country schedule has been posted in the clubhouse which closely follows the varsity schedule, will be published next week. Prospects for the squad look encouraging, according to reliable reports from varsity men.

The tennis, golf and skiing teams are still on the planning boards, but we'll have the word on them here next issue.

000 to be paid at the rate of \$60,000 annually for five years for research in fields of biology and biochemistry.

A Rockefeller Foundation grant for work in chemistry and biology, \$50,000.

Additional miscellaneous gifts for work in biology, \$45,362.

Gifts and grants from 13 different industrial corporations for fellowships and research projects totaling \$50,350.

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Beaver • Sports •

Frosh Drop Close Contest To Pasadena C. C. Gridders

Junior Beavers Shine in First Game of Hopeful Football Season

Frosh Football

The Caltech Frosh grid squad opened their five-game schedule last Saturday morning by losing

Talkin' It Over

with The Goon

Hustlin' Hal and his three side-kicks from the Inner Sanctum—Big Jim, Happy Ed and "Don't believe everything you read in the Star-News" Anderson—left the Pentagon Building of Athletics to journey over to "Three-Button" Benny's sacred hall. Most of the lads who saw them thought that it was a talent search and promptly dove for the catacombs. However, the occasion was one of the few Athletic Council meetings that occasionally take place in order to determine how many football players we will buy for next season.

* * *

The Colonel and Dr. Swift were comparing the relative usefulness of a swagger stick and a beret; Dean Jones (I can't recall his new style) was dreaming of new tortures for the prospective Frosh; while the Hustler impartially flicked ashes from his famed Corona on Smiling Stan and McLean. Dr. Sorenson was slightly late due to an electrical difficulty in his car, but the meeting started off with the Colonel and the Dean battling it out for the chairmanship pro tem.

Discussion soon turned to the new Conference rulings. There will be an Official championship team picked for each major sport, legal Spring practices, and a few other technicalities. However, Tech had asked the league if it would be possible and legal to help some of the football players with room and board if they returned early for practice. This request was turned down and we were admonished not to allow "Professionalism" enter our honored walls. It was a shame, too. Some of my buddies out Whittier way had to keep their red convertible Cadillacs in the garage till this incident blew over. Some of the Sagehens had to hide their chicken feed for a while. It was finally decided to find soft jobs for the pigskinners returning early.

* * *

Got the first look at the new Basketball schedule. Looks fine. We've been asked to play in a new tournament this year in the Redlands orange groves. It seems as if just about every college is throwing an invitational tourney, so it will be sure of getting a bid. The Engineers are going out for a trophy.

Good news for all the golfers that have been mowing the lawns around the student houses. We are making arrangements for the divot diggers to get passes to Brookside for a bargain price. If you are interested drop in and see Miriam sometime. In fact, even if you're not interested in golf, drop in and see Miriam.

The fencers were asking for a place to stab each other, and it was decided that they would use the new gym (as soon as it was constructed) along with numerous other squads that need a roof over their heads.

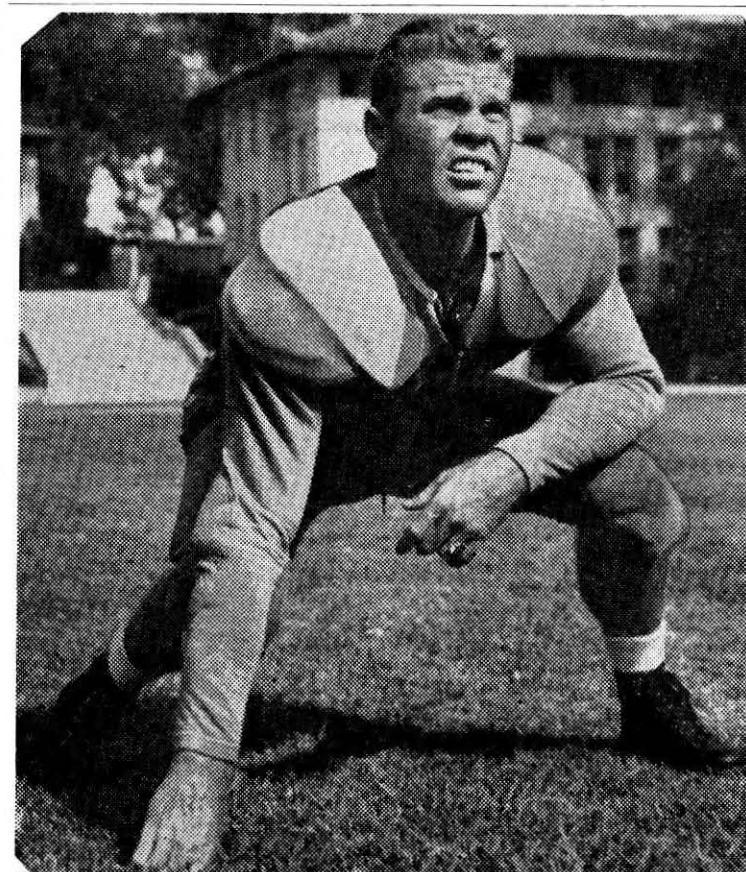
The rest of the business had to do with money, so the "kids" were asked to leave. Still haven't been able to find out if they've upped Wozniak's salary.

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SKIN TIGERS



PROMISES TROUBLE—Al Fain, Oxy guard, will be a tough man to keep out of the Bevo backfield when the Tigers and Engineers clash tomorrow night.

Throop Takes Lead As Interhouse Baseball Goes Into Final Weeks

Horseholders Whip Into Shape as Final Games Approach; Throop Leads Dabney, Fleming

With the last games coming up, the interhouse baseball league finds the men from Throop out in front by virtue of wins over Dabney and Fleming, which hold second and third positions respectively.

Ricketts and Blacker trail in this short season.

The opening game found the pitching of Throop too much for the Dabneymen, as they succumbed, 10-3. Inexperienced and loose fielding told the tale of defeat, as the Throopers showed their superiority by executing a fast double play, a rare feat in this league.

(Continued on Page 6)

Dabney Flashes To Win Over Browning Milkmaids

The long-postponed Dabney-Scripps milk drinking crew race, held Friday night on the Browning Hall patio, showed the ten-man team from Dabney in rare form as they gulped down an impressive win over the be-bibbed girls from Browning.

Though the girls were in excellent shape and had practiced faithfully, they were no match for the experienced gullets of the Tech milk drinkers, who were strongly supported by their seven piece German beerhall-type band. These fugitives from Petrillo filled the sacrosanct Scripps air with a volume of noise hitherto unknown on that staid and cultured campus as they tossed off polkas and marches in unabashed profusion.

Perpetual Trophy

The Browning girls proved excellent hostesses, however, even under these trying conditions, as they presented Paul Fullerton with an embossed Milk Mug Perpetual Trophy as a tangible symbol of Dabney supremacy. Anne Davis made the presentation for

Browning and Paul assured her he was deeply touched.

Preceding the great event was a swimming party in the Scripps pool followed by a barbecue dinner, song session and parade through the college grounds.

After the contest and presentation of award, dancing was indulged in by all concerned and the unique party thus brought to a successful conclusion.

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Traditional Rivals Promise Tough Going For Tech Varsity

Tigers Favored To Cop Important Tilt Though Some Regulars Are Doubtful

Beaverbabes, Tigercubs Clash In Prelim; Occidentals Given Nod In This One Too

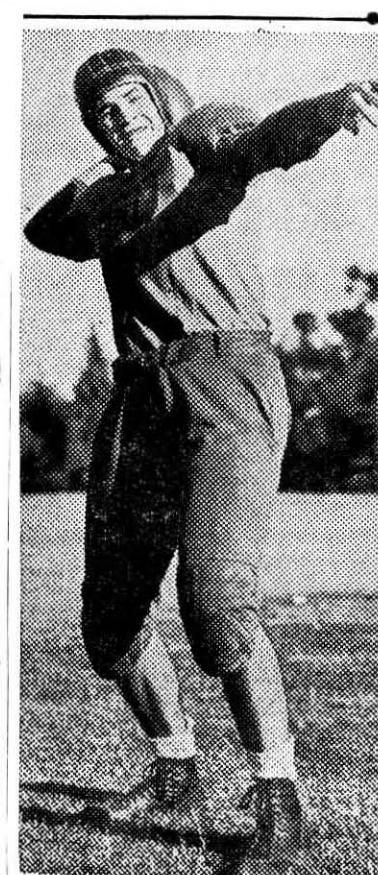
The "Battle of the Year," the grid tussle between the Engineers of California Tech and the Tigers of Oxy, will rip the turf of the Rose Bowl tomorrow night at eight, preceded by the lesser skirmish of the Bevobabes and the little Tigers at 5:45.

That old Tech spirit will be fired up tonight with the annual bonfire and pajamarino. To climax the rally will be the lighting of Tech's giant blaze. On top of the pile of boxes, a symbolic outhouse, secured by the Frosh through underhanded methods, will represent Oxy.

Following the firelighting and snake dancing will come the Pajamarino march through downtown Pasadena. There'll be plenty of gay and gaudy P.J.'s, but rumor has it Bud Mittenthal's spectacular creation will top them all.

Victory Last Year
More important is who is going

CALTECH	OCIDENTAL
74 HIBBARD	REL Bevin
83 BASS	RTL Cooper
79 MARKS	RGL Baly
80 GERPHIEDE	C Coots
68 DAHM	LGR Fain
76 LONG	LTR Stinstrom
61 MARSHALL	LER Pearson
81 STRAUSS	Q Ross
56 BAKER	RHL Trump
77 WOZNIAK	LHR Sanders
75 McLEAN	F Tasey



GLENN CHAFFEE
Cal Tech Half

ing to win the game?? Last year the Bengals were taken by a convincing score of 19 to 6. Of course, all Techman will be out there cheering for a repeat performance tomorrow night and many sparks of last year's game will be rekindled then. Chaffee, (Continued on Page 6)

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Frosh Sophomore Dance On Nov. 7

On Friday, Nov. 7, the Frosh and Sophs will forgive and forget by removing the effects of the Mudeo with a sport dance. This affair is to be held at the Pasadena Athletic Club from 9 to 1.

Herb Adkins to Play

The band of the evening will be Herb Adkins'. Eight pieces and a vocalist will provide smooth entertainment for the evening, built around a tenor section of three saxes and three clarinets alternately.

Dance Engineered by Joint Committee

The dance, demanded by tradition, will be financed by the class unfortunate in the Mudeo. However, the arrangements are under the management of a joint committee of seven each of Frosh and Sophs.

OXY DELEGATION

(Continued from Page 1) houses, where they were wined, dined, and slept, and were the subject of some awe among the Frosh.

Twenty-three of the visitors chose to remain and enjoy the persuasive Tech hospitality; however, when it was learned that the dear house mothers at Oxy held bed checks and the delegation was in danger of losing its golden slippers, Tech hosts sent them bundling back home.

It is unreliable reported that one Techman, at least, was so overcome by hospitality that he paid a reciprocal visit to Oxy on the same evening, from whence some wit has developed an equation, to-wit: One Techman is equivalent to 23 Oxymen. Friday's game will give needed experimental data on this.

Wanted...

Men to serve on the ASCIT Publicity Committee. Positions open for two (2) Assistant Publicity Managers and two or three committee members. Newspaper writing experience is desirable, but not necessary. What is wanted are reliable, eager Beavers to handle outside publicity on such events as sports, social affairs, etc. At least one freshman will be a member of the committee. Contact Bill Karzas in Blacker, or leave a note in the "K" box in Throop.

FROSH GAME

(Continued from Page 5) P.C.C.'s second touchdown followed a series of running plays to the Tech 7. The surprise play of the game occurred when "sleeper" Frank Martin received a pass in the end zone to score. George Suman, CIT line man, blocked the extra-point kick.

Tech Scores Again

Shortly before the end of the first half, a P.C.C. fumble recovered by End George Terhune gave the Techmen the ball on the P.C.C. 20. Blanchard and Luscombe ran the ball in six plays to the five. From there Beaver Speed-man Moss trotted over the goal line on a lateral around right end. Pfieffer's kick was blocked and the score was again tied as the first half ended.

Tech opened the second half with the ball on their 23 after a 17-yard runback by Moss. Following a fumble in attempting to punt the ball by La Fleur, Ronald Berner, Frosh tackle, recovered a P.C.C. backfield fumble on the Tech 20.

Shown Signs of Offense

The Frosh began to show signs of an offense as Pfieffer passed over center to Noel Reed for 9 yards, and La Fleur drove through right tackle for a first down on the Tech 35. A kick on fourth down was fumbled by the reserves on their 25 and the ball was retrieved by Jim Luscombe.

In four plays the Engineers could not gain a first down despite an 8-yard pass over center to Don Schmid.

Bulldogs Rack up First Downs

After an exchange of punts the Bulldogs racked up four first downs, driving from the P.C.C.

STATISTICS	
Caltech	Pasadena
First Downs	11
By rushing	11
By passing	0
88 Net yardage-rushing	182
17 Net yardage-passing	101
6 Pass attempts	8
2 Pass completions	5
105 Net yardage	283
0 Interceptions	0
7 Punt number	2
35.7 Kickoff return avg.	36
22 Yards punts returned	39
68 Yards kickoffs returned	37
1 Fumbles	7
15 Yards lost on penalties	20

37 to the Frosh 4 before a fumble in the backfield was recovered by Terhune on the 7. Pfieffer was compelled to punt after a 5-yard penalty for too much time in the huddle placed the ball on the 2-yard line.

Two plays later Martin nabbed a short forward and twisted his way through the entire Tech backfield for the final touchdown. The kick was good, making the final score 19-12.

With less than 60 seconds of play left, Moss received the kick-

OXY GAME

(Continued from Page 5) McLean and Hibbard, who played such an inspired game last week and who helped make the victory in '46 will probably be on the starting line-up.

Tigers Want Revenge

However, the Tigers, too, have a strong remembrance of the '46 mayhem and will be out for Beaver blood tomorrow night. Off their Whittier showing the Engineers have the stuff to win, but Coach "Andy" Anderson warns that Oxy has a top-rate grid squad. "They have an excellent passing attack and the club

off and ran the ball back 30 yards to the Tech 40. Luscombe gained a yard through right guard and as the gun went off, a pass from Moss to La Fleur fell incomplete to end the game.

has a lot of speed and ground power, too!"

The Beavers will go into the game as underdogs with a loss, a win, and a tie, while the Tigers hold one victory in three starts against tough elevens. The Tigers disposed of the Cal Aggies handily in their first outing, but have been mauled the last two week-ends by Santa Barbara and San Diego State Colleges. Several Oxy stalwarts were shaken up pretty badly in these encounters and are on the doubtful list for tomorrow's game.

The odds really don't mean too much, though, as Tech went into the annual clasp a year ago under similar circumstances and came out on top. The Beaver boys have the spirit and every Techman will be backing this fight to the limit.

Frosh Expect Trouble

The Frosh game, too, will be tough according to coaches Ed Preisler and Nevill Long. Long, who has seen the Occidental Frosh squad play, admits the job of winning will not be an easy one, remarking that "Oxy is much better than the team that beat us Saturday. They have a lot on the ball, but we will go into the game better prepared than we were last week."

Staff...

There are still plenty of openings on the staff of the California Tech for both qualified and inexperienced personnel.

If you are interested in working on the staff of Caltech's biggest paper, contact Len Herzog or Dick King in Dabney. If you're money mad, Bill Bradley, Business Manager, is the man to see.

CAMPUS BREWINS

(Continued from Page 2) Stokely, Bill Woods and Tom Stix, who, by the way, has remained faithful to the pledge of not dating anything under legal age.

Listed among the other victims were Don "Sweet Old" Barrie, who got a nice greeting from the Pasadena police while acting in the capacity of chauffeur.

Bill Boutelle was also heard muttering in his beard about what he was going to do to a certain freshman.

It seems he spent three hours taking people home, especially one Dallas Peck, who operated in the back seat with thirty million named Nancy.

At this point space runs out so I'll save the rest for next week after we've tamed the Oxy Tiger.

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