

VOTE
ON
BY-LAWS
TODAY

CALIFORNIA TECH

OXY GAME
TUESDAY
RALLY
MONDAY

California Institute of Technology
Friday, January 17, 1947

Volume XLVIII

No. 12

SAE Meet Monday At 4; All Invited

Exhaust Valves To Be Subject of Movies

All students are invited to attend the meeting of the SAE in 206 ME at 4:00 P.M. next Monday, Jan. 20th. A representative from Thompson Products, makers of internal combustion engine exhaust valves, will speak and will show a movie about the manufacture of his company's products.

The program should be of interest to all engineering students because many interesting industrial processes will be illustrated by the film.

Field Trip Planned

After the meeting, a field trip to the Thompson Products plant will be arranged. Attending the meeting makes you eligible to go on the field trip, so be sure to attend if you are interested, even though you may not be a member of the SAE.

Aristophanes' "Clouds" Rehearsals To Start

Monday night, Tech thespians, o'erleaping tremendous obstacles in the form of abject confusion, vied enthusiastically for parts in the forthcoming Greek play, *The Clouds* of Aristophanes.

Our own Oliviers, hearing scraps from the new, revised, and modernized *Clouds*, found themselves rolling on the floor. Several unfortunates were carried away in spastic hysteria.

Among those to survive and win roles were Bruce Worcester, Mitch Cotton, Dick Roehm, Tom Tracy, Jack Ottestad, Dave Caldwell, Bill Bellew, Tom Stix, Fred Smith, Rex Ragan, Leo Breiman, and Charles Shaw. Several parts are still contested. Leigh Sheriffs, with the aid of Walt Mudgett and Jack Ottestad, is undertaking the Augean task of preparing props.

Rehearsals are to start next week under the leadership of Carl Price.

CAMPUS CALENDAR

Friday, January 17—

Pep Rally on the steps of Throop, 12:30 p.m.

Basketball game. Caltech at Pomona, 7:00 p.m.

Fleming PJC Exchange Dance. Lecture by Dr. Max Mason on "Antisubmarine Underwater Sound and Underwater Warfare," 7:30 p.m. in 201 Bridge.

Saturday, January 18—

Blacker House Record Dance. Dabney Exchange Record Dance.

Ricketts Senior House Record Dance.

Throop Club Theater Party at the Pasadena Playhouse.

Monday, January 20—

Caltech-Oxy Exchange Rally at 10 p.m. between Fleming and Ricketts.

SAE Meeting at 4 p.m. in 206 ME. Everyone invited.

Tuesday, January 21—

Oxy-Caltech basketball game, 7 p.m., here.

Wednesday, January 22—

Frosh Luncheon Club at the Training Table, 12:00.

Thursday, January 23—

Dancing Class, 7:30 p.m., in Culbertson Hall.

Friday, January 24

Basketball game. Caltech at Redlands, 7:00 p.m.

Luncheon Club For Upperclass Starts

Speakers To Feature Thursday Noon Meetings

An Upperclass Luncheon Club, patterned after the very successful Frosh Luncheon Club, was started this week. A small group of upperclassmen, for a service charge of ten cents, meets in the training table room every Thursday noon to hear campus and community leaders and make their acquaintance.

Last term the Frosh Luncheon Club met and heard such interesting speakers as Dr. Pauling, Col. Goldsworthy, and guests from PJC and neighboring schools. The new club promises to continue in the same vein, and should provide a worthwhile hour per week.

Those interested in joining the club should sign up in the Y office soon, for the number of members must be limited and the list is being filled fast.

Survey Shows Need For College Men

A great postwar demand is developing for engineers, chemists, salesmen and men with general business training, according to a survey conducted by the bureau of placement of Northwestern University.

The survey, which was based on information from 110 companies, indicated a 51 per cent increase over 1940 in the number of inexperienced college graduates who would be employed.

The greatest need, according to the survey, will be for engineers in the following order: chemical, mechanical, electrical, civil, and aeronautical.

Second only to the need for engineers will be that for men with general business training received in schools of commerce or colleges of liberal arts. Chemists and salesmen place third and fourth, respectively.

Athenaeum Dance Feb. 8 Features Loman Orchestra

First Social Event Since War For Grads

Saturday night, February 8, 100 happy couples will dance to the smooth Freddy Martin style rhythm of Hal Loman and his ten-piece orchestra at the Athenaeum. Members of the dance committee have taken extra pains to set a precedent in this first semi-formal dance of the post-war season for Athenaeum members, faculty members, graduate students, and their friends.

Refreshments will be served at 11:30 after which dancing will continue until 1:00.

Reservations may be made for \$2.50 per couple at the Athenaeum office, phone SY 3-6146. Interested persons should call early, for the sale has been limited to one hundred.

Throop Club Theater Party, Record Dance Tomorrow

Throop Club is having a theater party at the Pasadena Playhouse tomorrow. There will be a record dance in the club lounge after the performance. Tickets may be picked up today at noon in the club lounge. A dinner-dance is planned for next week.

Break Ground For Supersonic Tunnel At Arroyo Jet Lab

Army, Tech Faculty Cooperate In Project

Ground was broken Tuesday at the Institution's Arroyo Seco Jet Propulsion Laboratory site for the construction of a three million dollar supersonic wind tunnel.

Major General Everett S. Hughes, U.S. Army Chief of Ordnance, visiting Caltech on an inspection tour of Southern California Ordnance installations, turned the first shovelful of earth for the project.

Construction of another supersonic wind tunnel is already in progress, as reported previously in this publication, adjoining the Guggenheim Laboratories on the main Institute campus.

Army to Construct Tunnel

The Arroyo Seco tunnel will be constructed by the Army Corps of Engineers. The project is financed by the Ordnance department and is under the general supervision of the Caltech Jet Propulsion Laboratory.

Allan E. Puckett, youthful engineer who is supervising design and construction of the tunnel, and will later be in charge of its operation, was also present at the groundbreaking ceremonies, as were Dr. Lee DuBridge, Institute President; Dr. Theodore von Karman, Guggenheim Aeronautical director; Dr. L. G. Dunn, Jet Propulsion Laboratory Director; B. S. Mesick, Army Ordnance liaison officer attached to the Institute, and Colonel Edwin H. Marks, Chief of the South Pacific Division, Army Engineers.

Puckett explained that "greater flexibility" will be built into the new research instruments for problems in the aerodynamics of missile design.

To Embody Improvements

The Caltech faculty member, who also designed the supersonic wind tunnel operated by the Army at Aberdeen Proving Grounds, in Maryland, stressed that the new tunnel would embody improvements suggested by previous tunnels.

"We have learned much the hard way the past year about things which must be tested," Puckett declared. "This 'tool' will be built for broad basic research, rather than routine testing, to enable us to investigate fundamental aspects of the unknown field of supersonic flow."

To Require 18 Months

Eighteen months will be required to complete the project. The tunnel will be housed in a building 70 feet wide and 150 feet long. It will be rectangular and nearly as long as the building, about eight feet wide at the ends, and will narrow to a minimum dimension of two-foot width in the center, where models are placed and highest air speeds attained.

Speeds exceeding 3000 miles per hour are expected to be reached. These velocities, more than four times the speed of sound, will be developed by a system of large centrifugal air compressors operated by electric motors.

April 19, 1947, is a date
worth keeping in mind.
Watch for it.

Tech Meets Oxy Here Next Tuesday Night In Opener

Exchange Rally Features Monday Night Activities

The home basketball season of the Southern California Conference is officially opened at Tech next Tuesday night when the Tiger from Oxy invades eBaver territory in the first of two meetings on the two-round schedule. Both As and B's clash, with Tech hoping to add another victory over Oxy to the previous 19-7 win in football.

ASCIT Nominations

Due February 21

Student Body Elections To Be Held March 7

Student Body elections for next term will be held on March 7, 1947. At this time students will vote on all the members of the Board of Directors and also on Editors and Business Managers of the publications.

All nominations must be in by February 21. They must be handed to any member of the present Board of Directors, in writing.

On Friday, February 28, the assembly period will be devoted to nomination and acceptance speeches, which should be limited to one and one-half minutes.

Campaigning, posters, and so forth, may not start till after the nominations assembly. After that time they may be put anywhere east of the wire in front of Throop Hall, but not on the doors or windows of buildings.

Geo. Hall Appointed Publicity Director

On behalf of the school The California Tech wishes to extend a hearty welcome to Mr. George H. Hall, recently appointed to fill the newly created post of public relations co-ordinator. In the future his office in 361 Arms will be the central clearing house for all information concerned with the Institute.

Mr. Hall's previous experience has fitted him ideally for this particular post. A University of Arizona graduate, Mr. Hall was with the Arizona Daily Star in Tucson, following which he became public relations director for Consolidated Vultee, and later North American Aviation in Inglewood.

Best wishes for success to Mr. Hall in this new post.

Big T Photograph Deadline Jan. 24

Dear Sir:

We want your picture to appear in the 1947 BIG T. Please come to the BIG T offices in lower Fleming as soon as possible and make an appointment to be photographed. The office is open every afternoon during the school week from 1300 to 1800, but all appointments must be made on or before Friday, January 24.

There will be no waiting this time, for the Christmas rush is over, and the studio's new manager has promised faithfully that you will not have to wait if we make an appointment for you. So please come down and make an appointment as soon as possible.

Sincerely yours,

Charles B. Shaw, Jr.
Editor of Big T.

Monday Night Rallies

To raise any lagging morale, and give all the "Eager Beavers" a chance to forsake their books for a half hour or so, an exchange rally has been planned for next Monday night at 10:00 (P.M., that is), on the lawn between Fleming and Ricketts. Lang Hedrick will introduce Oxy's Buzz Baker who will take over the duties of master of ceremonies. The show will include both masculine and feminine performers, plus songs and yells aplenty.

Leading the array of Tech talent performing at the "sneak" rally on the Eagle Rock campus are Frank Wolf, who will act as M.C., Hugh "Frankie" Carter, Bill Muehlberger, Jack Ottestad and Danny Markov, who will do a dwarf act. Completing the company will be several members of the newly organized glee club, who will render several musical numbers.

Oxy Probable Favorite

Comparing the results of games against mutual opponents gives Oxy the edge, despite their disastrous loss to Whittier. But Tech, against Loyola, showed much improvement over previous contests, and can make a game of it.

"No Parking" On California Street

The city of Pasadena has just installed "No Parking at Any Time" signs on the South side of California Street between Arden Road and Hill Ave.

These signs have been ignored during the first part of the week by a large number of Tech students. Up to now the police force has been lenient with violators, but continued violation of this parking regulation will result in tickets being issued.

A petition by the property owners declared that the cars blocked their driveways. This was verified by the police department before action was taken.

"The Word" Given On ASCIT Dances

On the night of February 22nd the Riviera Country Club in Brentwood will be the scene of gay festivities. Jimmy Thomas and his mellow musicians will be present to play for the second student body dance of the year from 9 to 12 on that evening. The dance will be sport.

The Ship-Wreck Dance planned for March 8th has raised the question as to just what shipwreck dance means. The theme of the dance will represent the situation that people find themselves in after being shipwrecked. Torn clothes, rags, etc., will be the appropriate attire.

The California Tech

Published every Friday during the college year except during examinations and holiday periods.

CALIFORNIA INSTITUTE OF TECHNOLOGY
1201 East California Street, Pasadena, California

Subscription rates: \$1.50 per year.

Entered as second-class matter June, 1913, at the Post Office in Pasadena, California, under the Act of March 3, 1879.

Offices: Lower Fleming Telephone: SYcamore 6-7121 Ext. 180

Distributor of Collegiate Digest

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Musical Baedeker

The long heralded Musicales Sunday evening concerts are finally at hand. The first concert of the season is to be held this Sunday in Dabney Lounge at 7:30 p.m. and is scheduled to run for about two hours.

Sunday Program


Rolf Sinclair, Musicales Prexy, will M.C. an all-Beethoven presentation which will include the 9th Symphony, the 5th (Emperor) Concerto, and the Leonore Overture No. 3. These selections represent a somewhat mild start of a season which will feature more exciting music in the near future. Remember, Musicales concerts are a cheap yet pleasant way to entertain your girl and yourself, and those seats on the balcony sofas are not reserved!

Noon Concerts

No decision has been reached as yet on the status of noon concerts; however, Musicales members who would be interested in conducting them are urged to contact Sinclair.

Jazz Blow-off

Bauduc's bash in Culbertson this morning proved to be a terrific hit with Tech jazz fans. Ray's amazing drumnastics kept



Ray Bauduc

his audience spellbound, while a fine guitar performance was offered by Nappy Lamare, another New Orleans oldtimer. The Rally Committee should be congratulated on an excellent assembly presentation, a repetition of which is certainly something to look forward to.

Father: "What makes you skip school all the time, Johnny?"
Johnny: "Class hatred."

Why the tottohrush in my lapel? t's my class pin—I go to Colgate.

From The Exchanges

Hostess Course Added

A course leading to an associate degree with a major in Airline Management has been added to the Air Center curricula of **Denver University**. Five quarters of college work are required to be eligible for enrollment.

Coed Missing

Reporters on the **Williams College** student paper interviewed a noted seer who is helping to locate a missing college student of **Bennington College** through her mystic powers.

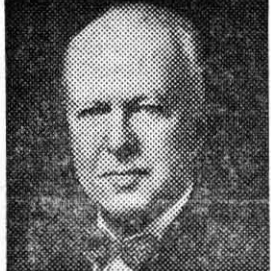
Short Railroad

A 473-foot spur of the Erie Railroad has been constructed on the **University of Rochester** campus to transport the forgings for their new cyclotron's magnet to its construction site. The railroad has been named the "Cyclotron and Southern."


Me Too

A columnist on the **Fresno State College** paper reports he is living for the day "when Mr. F. E. Boone of Lexington, Kentucky, develops smoker's hack — when Mr. District Attorney is impeached for mal-practice of office — and when Superman starts drinking Ovaltine to build himself up!"


Intuition: That which makes a woman right whether she is or not.




WALTER S. GIFFORD
President of the American Telephone and Telegraph Company. Started as a clerk with the Western Electric Company in 1904.




CHESTER I. BARNARD
President of the New Jersey Bell Telephone Company. Started with the Bell System as a clerk in Boston in 1909.



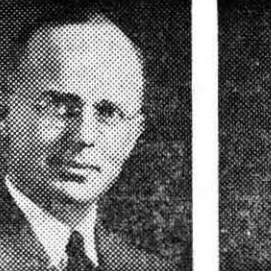
WILLIAM C. BOLENIUS
President of the Wisconsin Telephone Company. First telephone job was in New York City as a traffic inspector in 1921.




ALLERTON F. BROOKS
President of The Southern New England Telephone Company. Started as engineer's assistant in New Haven in 1911.




VICTOR E. COOLEY
President of the Southwestern Bell Telephone Company. Started his telephone career as a clerk in San Francisco in 1911.




HAL S. DUMAS
President of the Southern Bell Telephone and Telegraph Company. Started as a traffic student in Atlanta in 1911.




RANDOLPH EIDE
President of The Ohio Bell Telephone Company. First telephone job was as a special inspector in New York in 1911.



JOE E. HARRELL
President of the New England Telephone and Telegraph Company. Started with Bell System as a clerk in Atlanta in 1913.



RUSSELL J. HOPLEY
President of the Northwestern Bell Telephone Company. Started as collector in Fort Madison, Iowa, in 1915.



WILLIAM A. HUGHES
President of the Indiana Bell Telephone Company. Started his telephone career as a ground man in Kansas City in 1917.

Up from the Ranks

These are presidents of operating telephone companies of the Bell System. They all started at the bottom of the ladder... Nine years ago the Bell System first published an advertisement like this, except that there are now thirteen new faces in the pictures. These new presidents also started at the bottom.


The Bell System aims to keep the opportunity for advancement open to all. One of its traditions is that its executives come up from the ranks. That has been true of the business for many years and nowhere is it better illustrated than in the careers of the men who now serve as presidents of Bell Telephone Companies. As a group, they have put in 611 years of telephone service, an average of 36 years each.

PRESIDENTS OF BELL TELEPHONE COMPANIES AND THEIR FIRST JOBS					
Name	Company	Date	Place of Start	First Pay	First Job
Walter S. Gifford	Amer. Tel. & Tel. Co.	1904	Chicago	\$10 week	Clerk, Payroll Dept.
Chester I. Barnard	New Jersey Bell Tel. Co.	1909	Boston	\$50 month	Clerk
*William C. Bolenius	Wisconsin Tel. Co.	1921	New York City	\$28 week	Traffic Inspector
*Allerton F. Brooks	Southern New England Tel. Co.	1911	New Haven	\$12 week	Engineer's Assistant
*Victor E. Cooley	Southwestern Bell Tel. Co.	1911	San Francisco	\$60 month	Clerk
*Hal S. Dumas	Southern Bell Tel. & Tel. Co.	1911	Atlanta	\$50 month	Traffic Student
Randolph Eide	Ohio Bell Tel. Co.	1911	New York City	\$15 week	Special Inspector
*Joe E. Harrell	New England Tel. & Tel. Co.	1913	Atlanta	\$14 week	Clerk
*Russell J. Hopley	Northwestern Bell Tel. Co.	1915	Fort Madison, Ia.	\$40 month	Collector
*William A. Hughes	Indiana Bell Tel. Co.	1917	Kansas City	\$60 month	Ground Man
*Thomas N. Lacy	Michigan Bell Tel. Co.	1905	Philadelphia	\$10 week	Installer
*H. Randolph Maddox	Chesapeake & Potomac Tel. Cos.	1921	Washington, D.C.	\$30 week	Student Engineer
*Graham K. McCorkle	Illinois Bell Tel. Co.	1902	Eminence, Ky.	\$20 month	Office Boy
*Floyd P. Ogden	Mountain States Tel. & Tel. Co.	1911	Kansas City, Mo.	\$40 month	Student-Clerk
Philip C. Staples	Bell Tel. Co. of Penna.	1904	Baltimore	\$12 week	Salesman
*Mark R. Sullivan	Pacific Tel. & Tel. Co.	1912	San Francisco	\$50 month	Clerk
*Carl Whitmore	New York Tel. Co.	1910	San Francisco	\$65 month	Field Man


*Asterisks indicate new presidents since December, 1937.

BELL TELEPHONE SYSTEM







THOMAS N. LACY
President of the Michigan Bell Telephone Company. With Bell System since 1905. Started in Philadelphia as an installer.




H. RANDOLPH MADDOX
President of The Chesapeake and Potomac Telephone Companies. Started, student engineer, Washington, D. C., in 1921.




GRAHAM K. McCORKLE
President of the Illinois Bell Telephone Company. Started with Bell System as an office boy in Eminence, Ky., in 1902.




FLOYD P. OGDEN
President of The Mountain States Telephone and Telegraph Company. Started as student-clerk in Kansas City in 1911.



PHILIP C. STAPLES
President of The Bell Telephone Company of Pennsylvania. Started with Bell System as salesman in Baltimore in 1904.



MARK R. SULLIVAN
President of The Pacific Telephone and Telegraph Company. Started as a clerk in San Francisco in 1912.



CARL WHITMORE
President of the New York Telephone Company. First Bell System job was in San Francisco as a field man in 1910.

Blacker Wins In Dicobolis Defense

Defeats Dabney 35-31
In Basketball Game

Blacker House successfully defended its possession of the Dicobolis Trophy last week, for the third time in succession, equaling a record performance last attained by Fleming in 1942.

Challenged by Dabney in basketball, the Blacker boys were definitely underdogs in the match. They amazed the onlookers by piling up an eight-point lead at the half, only to tire in the last quarter, as Dabney's two teams kept the game at a fast pace. After being tied at 29-all, Blacker pulled away on two free throws and two buckets to win handily, 35 to 31.

Fleming Challenges in Track

Blacker will attempt to make it four defenses in a row next week when it answers Fleming's challenge to a modified track dash, the 880, and a four-man mile relay.

He: "Does your girl smoke?"
Other: "Not quite."

Fleming, Ricketts Cop Gridiron Games

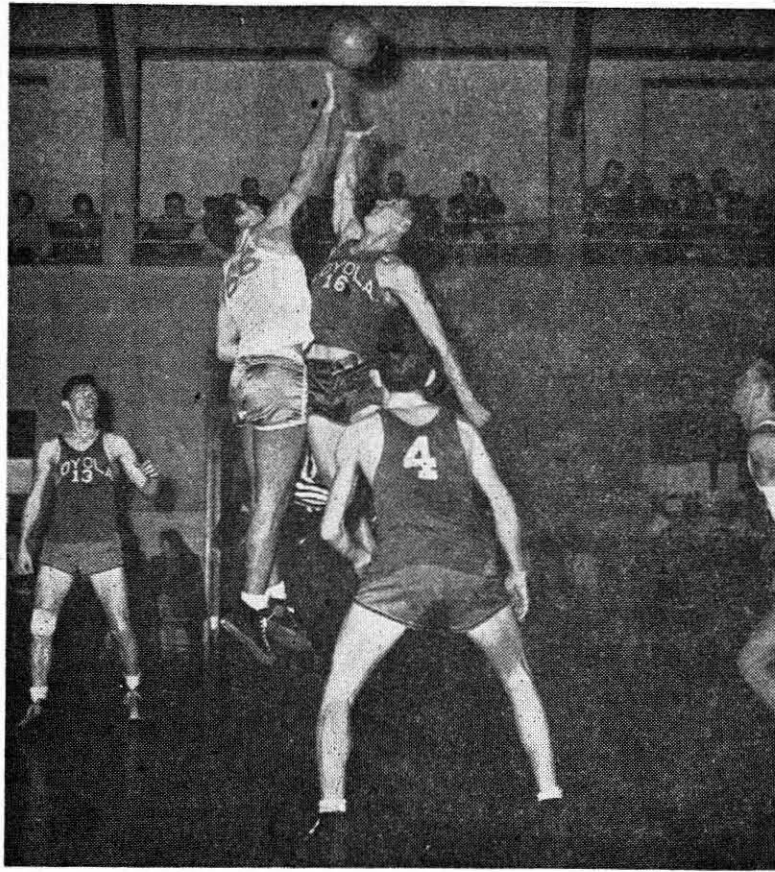
Leaders Play Monday
Winner May Be Champ

The opening of the interhouse touch football league saw Fleming and Ricketts get away to a flying start by copping their contests with Throop and Dabney, respectively. In a third game Dabney squeezed out a win over Blacker to gain third place in the standings.

A classy Fleming team which could do no wrong easily rolled over a Dabney team which could do nothing right. The score of 36-2 indicates the complete mastery of the situation by the Redmen. They employed a fast running attack interspersed with long and short passes to completely outplay the Dabneymen. Ricketts Also Triumphs

Ricketts used the old razzle-dazzle in their 12-0 win over the outmanned men from Throop. Only one half was played, but that proved the "Rowdies" too much for Throop.

In the first game of the short season, Dabney edged Blacker by pushing over a touchdown in the last quarter to win 12-6. The contest was marred by an accident in the last 2 minutes of the game in which Dabney's Dale Vrabek suffered a broken leg.



Paul Saltman outjumping Loyola at the start of Saturday's Game

Attention Baseballers

A meeting of all candidates for varsity baseball will be held Monday, January 20, at 4:00 P.M. in Room 101 Dabney.

All men interested in coming out for varsity baseball should attend.

Fencers Plan Match

The first meeting of the fencing club this term will be held in Culbertson, Tuesday, the 21st, at 8 p.m. The meeting will include an exhibition match and an explanation of the various positions. Col. Cherny will be on hand to give instructions. He instructed the N.Y.U. fencing team which won the Intercollegiate Fencing Foils Championship.

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HOTALING'S

TWO STORES:
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Lions Edge Bevos; Beababes Bopped; Pomona Tonight

Cagers Meet Chapman, Oxy, Redlands, Next

Coming to life late in the contest, the Caltech hoopsters overcame a large Loyola lead and battled down to the final gun to a one-point loss, 40-39, in a Varsity encounter played last Saturday night at the Pasadena Armory.

The game got off to a slow start, and the teams battled evenly to a 4-4 count with nearly half the first half gone. At this point, Loyola shifted to a close-guarding scatterball type of play and ran up a ten point lead before the surprised Beaver cagers checked it. Half time found the Lions holding a 19-11 advantage.

Lions, Then Beavers Rally

During the first half of the final period the Engineers concentrated on whittling down this lead and diminished it to five points. The Loyola offense, however, caught fire once more and with seven minutes to go the Tech quintet faced a 12-point deficit.

The last part of the game witnessed a brilliant rally by the apparently beaten Beaver outfit. Several successful free throws and long shots by Bowen and Mullen decreased the lead quickly, and, with about two minutes to go, quicket setups by Montgomery and Cox pushed the Techmen into a 39-38 lead, their first since the opening minute of play.

Loyolans Freeze Ball

With about a minute to play, however, Schneider, Loyola guard, swished a perfect shot through the hoop from deep in right center court. The Beavers, without Bowen, Moore and Saltman, who had left the game on fouls, were unable to control the ball and Loyola took over and froze play until the final gun.

Meet Pomona Tonight

The Beavers first league game, to be played tonight at Claremont, pits them against Pomona and a zone defense. Tomorrow night the team travels to Chapman for a return engagement. In the first contest, Tech emerged with a rather effortless victory. Next Tuesday, the Occidental Tigers will invade the Armory in a continuance of that bitter rivalry, and next Friday finds the Beavers rolling to Redlands for their third league contest.

In the preliminary contest, the hot-and-cold Beaver Bees were cold and dropped a 32-19 tilt.

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Campus Brewins

Dud Bennett, erstwhile Fleming operator, was somewhat crestfallen the other night. He met a very charming little number at the Green Hotel recently, but she told him that her heart belonged to Daddy.

Woodbury Wolf

I wonder who this ex-service chick is who has Ordway Manning running over Wilshire way to Woodbury College. Been hearing all sorts of things on this.

Oxy Co-eds

It looked like social night in Fleming Tuesday as several enticing numbers were seen in their lounge after dinner. I understand this was only the preliminary to a mixer with the Oxy girls in the near future. Also included on the athletes "get-acquainted-locally" list are the Pasadena Playhouse and PJC.

Smooth Snake

Fred Smith came out of his hole long enough to go out to the open house and give the Scripps girls a treat. As far as I can see from here he appeared to be doing all right.

Circular No. 3.1416

The following named US (undergraduate students to you), Revay, Edward; Honnald, Vincent; Oberman, Carl; Ryder, Red; Sheriffs, Leigh, were observed conducting themselves at a certain "Turner Inn" in such a manner as to bring discredit upon the monastery. They will be restricted to the limits of the steam tunnels. For the information and guidance of all concerned, notice is hereby given that the aforementioned establishment is declared "off-limits" to all US personnel. However, faculty members and their ladies will be permitted to enter the premises. (Distribution "n").

Disturbance at Dawn

More than one Blacker man was rather irate Sunday morning after a far from peaceful night's sleep. Cause of the bad tempers was a somewhat overly jubilant group of celebrants who had gone the rounds disturbing slumberers in the wee hours of the morning. It was all in observance of a venerable Army custom.

Hope for the Stricken

Quipped a lovely Clark freshman, "Why, I think Fleming men are almost normal."

Classified Ads

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