Thursday, November 25, 1948.

Shows High Interest, Beliefs of Monasticism

Next week the Beaver orientation lectures, which are being offered to Southern California High Schools, leave the nebulous state, and emerge as realities, marking the first time Caltech students have engaged in active publicity for the enlightenment of future students.

The workings of the plan are simple. Two men, preferably a scientist and an engineer who have volunteered for this work,

On Engineering

Are you sure that your cho-

many other college students, un-

distant future from the acquisi-

Contacts Engineers

portunities for advancement, and

other points of interest pertinent

to their professions. Using the

vast amount of data returned to

him, he was able to learn the

tions often asked by students.

Forester to Talk

paper it was announced that Mr.

Jessup would summarize the re-

sults of his survey in an illus-

trated lecture sponsored by the

tice and was therefore unable

Francis Forester, who, in addi-

tion to his other administrative

duties, serves as president of the

ASCE student chapter, has kind-

and report and present it as an

illustrated lecture at the next

If you are a student with an

earnest desire to be a success,

you owe it to yourself to come

and hear Forester speak on "The

sition." Knowledge of these sta-

tistics is certain to be of value

biased picture of your career

which will help you to shape

your education. The date is No-

vember 29, 11 a.m. at 201 Bridge.

for the Christmas vacation. Air-

airlines operating out of Los An-

go home for the holidays at

Increase Expected

will enable 6 non-scheduled lines

to give DC-4 and DC-6 service to

every major United States city

for about 50% of standard air-

line rates. Many of these flights,

to New York, Boston, Chicago,

Washington or Philadelphia are

All Conveniences

ardesses, serve meals, and offer

\$20,000 liability insurance per

See Stratton

All of these flights carry stew

nonstop 14 hour trips.

Expected increase in traffic

greatly reduced airline rates .

CES meeting.

answers to many of the ques-

Several months ago, Walter

vill go to a designated high nool which has asked for this vice. There they will meet Forester To Speak h students who are interested science and engineering in eral, for the purpose of givinformation and answering questions the high school dents might have concerning sen career will be the most benence and engineering in gen-, and about Caltech in par-

#### Object

he object of the plan is to you sufficient insight into the p high school students plan non-academic aspects of the proir future educations in ad- fessional world? If you are nearce, encouraging those who ing the end of your education, qualified for the technical it is quite possible that you are ck, and discouraging those wondering what benefits, mateare not. And to give any rial or otherwise, you may deormation about Tech which rive in both the immediate and students might want. t a preliminary experimental tion of an advanced degree.

ure, Bill Wood and Chuck ester journeyed to Long Beach Poly High School to try Jessup, Western District Repreout the system to be employed. sentative of the ASCE, realizing They found out that interest for the need for answering such the lectures is high, and also questions as these in the minds that Tech's reputation outside is of the students, contacted sevbelieve. The idea that there is branches of engineering, quesnothing but snaking to be done tioning them about the nature here is prevalent throughout the of their positions, salaries, op-

#### Start Next Week

So far about one-third of the 74 high schools contacted have replied and requested this service. Techmen will start their visits next week, with 6 schools on the list for that week. Since the final registration deadline is on February 25, a great deal of activity must occur between now and then. The Beavers are doing the organizing and directing work involved in this project, and Techmen who live close by, or have an interest in this project, have been asked to par- to come. Since then, Charles ticipate.

Results of this project cannot be determined immediately, nor in the near future. However, ly consented to study the data favorably by the faculties and students of the high schools in general, and success of the plan, determined by increased interest in the scientific and technical education, is almost a certainty.

### Flemingites View Screen Hamlet

Last Friday night saw the intellectual men of Fleming and their dates traveling en masse to the Four Star Theater and Airline Discounts Shakespeare's "Hamlet" a la Olivier. Inasmuch as this venture necessitated an expenditure of some four dollars a couple on admission alone, the large turnout is evidence of the real thirst for literary and dramatic knowledge amongst those who have been so wrongly classed as none but boors and athletes. All, dates geles, is offering its facilities to included, spent an emotionally satisfying evening.

In keeping with an active social program, Fleming is planning an informal Christmas gettogether for the night of Saturday, December 4th. This dance is expected to provide the spirit and entertainment appropriate to the season.

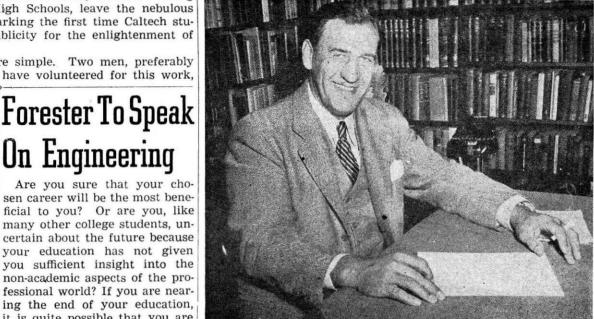
#### Campus Calendar

MONDAY, NOVEMBER 29—
11:00 Assembly, "So You Think You Know How to Study," Upperclass Panel Discussion.
4:20 Interhouse Bowling Pasadena Bowling Courts
TUESDAY, NOVEMBER 30—
12:00 Y Frosh Luncheon Club, Training Table
7:30 Band Practice, Culbertson
WEDNESDAY, DECEMBER 1—
4:30 Alumni Placement Series, Dabney Lounge
7:30 Fencing Class, Dabney House Dining Hall
7:30 Orchestra Practice, Culbertson
9:00 Glee Club, Culbertson

Ricketts, any evening after 7. for a long time.

passenger.

# Beaver Sponsored Talks To J. E. Wallace Sterling Named To Succeed Begin At High School Soon D. B. Tresidder As President Of Stanford



J. E. Wallace Sterling

# Ricketts

merchandise goes to Ricketts House, incomplete returns on not as terrific as some people eral thousands of men in all the W.S.S.F. drive which culminated last Friday, show.

#### Latest Returns

The following are the latest

eturr	15.		Per Capit
ticketts		190.00	1.9
leming		157.09	1.5
abney	***************************************	130.14	1.3
Blacker		64.06	.6
hroop		40.90	

Faculty - Grad - Employees re In a previous issue of this turns have not come in yet.

#### Indeterminate

Since the number of men that are members of Throop Club is an indeterminant variable we CES. However, Mr. Jessup was give no per-capital listing for called to New York on short no-Throop Club.

Comparison For comparison we give below

the re	turns	of	last	year's	drive.
					Per Capita
Fleming				209.50	2.23
Ricketts				199.85	1.98
Dabney				126.76	1.56
Blacker	************				1.34
Throop					1.32
	Re	tur	ns I	low	

Again this year as last, the re turns are below expectations. The returns of the remaining or-Engineering Profession in Tranganizations will swell the fund considerably but the students showing has left a large hole in

#### to you in your gaining an un- the Caltech quota.

Thanks Olly Gardner and Ralph Stone during the drive.

#### Offered To Techmen Y To Discuss Study Here is the answer to quick, Methods For Frosh safe and economical travel home

"So you think you know how line Tickets, a reservation agento Study" is the topic of an upcy for all of the non-scheduled Caltech YMCA. It will be held students at Tech who wish to this coming Monday in 155 Arms tor Company at Dearborn, Michcome are invited.

#### True Scoop

There will be lots of really practical suggestions of tried and true methods of how to crack tough problems, pass an exam, read a textbook and some general ideas that will be valuable to those who don't like to spend all their time in the snake pits. Here is a chance to find out how the upperclassmen have so much time on their hands.

#### **Humorous Note**

Anyone interested in learning of the points will be very well proximately 100 attending the the details, rates, etc., can con-illustrated with some striking last lecture, on Industrial Retact Kent Stratton, Room 34, examples that you won't forget search. However, plenty of seats

### Four Tech Students Receive Awards In First prize of ten dollars in AIMME Contest

Four Caltech students, William L. Basham, Arcadia, Donald W. Peterson, Monrovia, Robert Committee that new rules be L. Fisher, San Gabriel, and written and enforced by the stu-Beach Leighton, Urbana, Illinois, have received awards in an American Institute of Mining and Metallurgical Engineers' contest, Dr. Chester Stock, Chairman of the Caltech Division of Geology, announced last week.

Basham and Peterson received cash awards for their prize-winning entry in the Student Paper Contest, and Fisher and Leighton took second place in the same contest. Both papers dealt with the geology of the Sunland Area in Los Angeles County. Papers were submitted in the contest from students in several California schools.

### Placement Talk To Discuss Jobs In Management

By Dick King

Come, you executive minded students, to the next to last Alumni-Beaver lecture of the term. For, after a one week layoff for the turkey holiday, the seminars continue, this time on the subject of Business Managewish to extend their sincere ment. The featured speaker is thanks to those who helped them Mr. Charles D. Thornton, who is now vice-president of the Hughes Aircraft Company. The subject is one which all Techmen, especially engineers, should be interested in, for the combination of engineering and business is one hard to beat.

#### Experience

Mr. Thornton, as is true of all of the speakers, is well qualified perclassmen discussion session to talk. Before he reached his for the Frosh, sponsored by the present position, he was Director of Planning at the Ford Moat 11:00 a.m. and all who want to igan. His experience, politically speaking, is not exactly slight, he having been consultant to the Secretary of Air during 1946, and consultant to the Undersecretary of State during 1947. He is a veteran, having served as Colonel during the last war, and was in line for promotion to Brigidier General during the last days of that fracas. Incidentally, he was at one time the nation's youngest colonel.

#### Same Time, Same Place

Of course, the time and place remain the same as usual, 4:30 There will be an element of in Dabney Lounge Attendance humor in the seminar, as some has been very good lately, apwill be available.

### Appointment Announced During Special Trustee Board Meeting

Former Professor at Tech, Researcher at Stanford, Recently Chosen Director of Huntington Library

Dr. J. E. Wallace Sterling, former Professor of History and member of the executive committee at Caltech, has been named as Stanford University's fifth president.

The university's Board of Trustees, at a special meeting in San Francisco November 19, officially elected him to the presidency to succeed the late Donald Bertrand Tresidder, who died suddenly last January 28 in New York.

### Revised House Rules Released By Goldsworthy

Revised and shortened, the new house rules have just been released by E. C. Goldsworthy, Master of the Student Houses. and will become effective imme-

#### Much-Debated

The much-debated old rules were termed almost impossible to enforce. At the beginning of the fall term Colonel Goldsworthy suggested to the Inter-house written and enforced by the students themselves.

#### Honor

It thus becomes a point of honor for the students to observe these rules, since they were written by the dully elected officers of the houses, together with many of the members themselves.

The following are the new house rules. Below is an explanation of some of the points that might be slightly obscure.

#### THE RULES

The spirit of conduct in the Houses shall be that of personal honor combined with thoughtfulness for others.

- 1. The U.C.C.'s shall be responsible for maintaining reasonable order and quiet in the 1938. Houses. There shall be no willful destruction or defac-Houses.
- The signs "DO NOT DIShung on the door.
- There shall be no firearms or ammunition in the Hous-
- 4. No student shall put up a radio aerial or any other such wire without first obtaining permision from the Master of Student Houses. Students shall keep off the
- 6. Initiations shall not be con-
- ducted off campus without special permission from the Master of Student Houses. The presence of women in
- men's rooms shall be at the discretion and knowledge of the Resident Associate. Ordinarily, women are not permitted in students' rooms after 10:30 p.m. except on nights of regularly scheduled House or Student Body Social Functions.
- Bicycles shall not be stored (Contniued on Page 3)

#### **Last Chance**

All men, especially seniors, who wish to have their pictures in the Big T should make appointments for portraits before December 3. This is necessary in order that the Big T may meet its engraving deadline.

For full information, consult the notice in Lower Throop. Appointments may be made in the Big T office in Lower Fleming any weekday from 12 till 1. Pictures will be taken at Lloyd's Studio from 1 till 5 daily.

Sterling is a distinguished authority on Russian and European History, author, radio commentator, and teacher.

Covered UN He helped cover the United

Nations conference in San Francisco for CBS, and is also one of several civilian educators who have been chosen to take a course at the Army War College in Washington.

The new Stanford president has been director of the Henry E. Huntington Library, since July 1948. He spent five years on the Stanford campus as research assistant in the Hoover Library on War, Revolution, and Peace, and as instructor in history, between the years 1932-37. Caltech Administrator

In 1937 he joined the faculty of the California Institute of Technology as instructor in History, became a full professor in 1942 and was occupying the Edward S. Harkness chair of history there, when appointed director of the Huntington Li-

As chairman of the faculty and member of the executive committee at Caltech, he discharged important administrative responsibilities.

#### Assumes Post, 1949

Born in Linwood, Ontario, August 6, 1906, Sterling was educated in Canada. He received his Bachelor of Arts degree from University of Toronto in 1927, his Master's from University of Alberta three years later, and a Doctor's degree from Stanford in

At present he is engaged in writing an extensive historical ing of property in the treatise on British foreign policy since 1783 and, in addition, a book on Canada and the refu-TURB," provided in each gee problem. He will not assume room, must be honored when the presidential post until Sep-(Continued on Page 6)

### Institute Names 60 To Honor-Standing

Sophomore, junior and senior class honor student standings were announced today by the California Institute of Technology. Honor standing is accorded only to the 20 students in each class having the highest scholastic record during the preceding year. Students attaining this honor are:

Seniors: R. L. Wahlquist, C. J. Savant, W. J. Karzas, H. C. Martel, F H. Brady, Nathaniel Gould, J. L. White, W. J. Herschberg, R. R. Waters, R. L. Kahn, J. R. Cantwell, R. E. Kofahl, D. A. Liberman, J. M. Andres, E. D. West, K. M. Terwilliger, W. M. Myers, W. E. Danielson, B. B. Rutkin and G. W. Woodward.

Juniors: M. V. Mathews, R. B. Wright, F. J. Corbato, R. S. Pierce, M. Walt, J. L. Kohl, V. A. J. Van Lint, E. A. Worrell, W. B. Riesenfeld, B. Gage, W. John, Jr., R. S. Welte, J. B. Gerhart, L. K. Goodwin, R. J. Dickson, D. H. Cooper, G. B. Booth, L. W. Ross, J. R. Allder, H. J. Amster.

Sophomores: P. V. Mason, G. Trilling, T. W. Layton, A. E. Wennstrom, R. J. Kurland, J. B. Johnston, G. Merkel, W. M. Whitney, H. Forrester, F. H. Eisen, U. Merten, K. Sato, J. A. Ibers, E. F. Davis, R. B. Taylor. J. J. W. Rogers, P. F. Helfrey, J. H. McQuiston, Kwok-Ying Chong, H. A. Begg.

### The California Tech

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Jim Hummel, Editor

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spare time.

members.

can loaf through four years of

majors and have very little

may help his classmates by

Athletics is only one example

Unless the straight "A" stu-

Sincerely,

More Programs

The overwhelming majority

(Continued on Page 3)

Dave Baron

Poor Sportsmanship

Dear Editor:

Last Saturday's game with advantage of these opportuni-Pepperdine College was the last ties by going out for the school of the season. We think every- athletic teams with the spirit one was proud of the game that that he is going to do his best. night; but there were a couple He may not be on the winning of times during the game and team but neither is he on the during other games of the sea- losing team. It is this student son that we think we can speak who will be prepared to go into for the whole team in saying the cold, cruel business world we weren't too proud of the Cal- and become a success. If he tech cheering section. Everyone isn't good enough for the school did a fine job of cheering for team he has the opportunity of the team-we couldn't ask for playing for his house team. If any better-but that's not what he still isn't good enough he we're complaining about.

What we thought showed cheering them onwards. poor sportsmanship on the part of the Caltech stands was when of many in which a student may one of Pepperdine's players was learn to enjoy living with his so badly hurt that he couldn't fellowman. He may become a get up and our rooting section member of any number of camburst forth with, "Hit him pus professional societies. The again, harder, harder-." Yet band, orchestra or glee club are Friday night. Oh, rapture. celebrated by about a dozen when Bill Sylvies was hurt, always willing to accept new Pepperdine's "Caltech Man, 15" closely followed our yell for him. The same thing happened in the Redlands game when in social exile, in which case one of their players was badly his straight "A" will be of little injured. After all, football is value, he should be more than ed to wear a coat and tie. What a sport in which the cheering section, as well as the team, lastic standing (not below a cershould show good sportsmanship.

Don Hibbard Bob Walquist

#### Snakes

Editor, The California Tech Dear Sir,

In reply to your editorial in the most worthwhile manner. the November 18 issue, I would like to make a few remarks which I feel are pertinent to the subject of "snakes."

I believe that the student who To the Editor: goes through Tech with a thing close to it, without having ed the conditioned reflex of exchange for Toll Hall." taken part in any extra-curricu- leaving their radios tuned in to lar activities has failed to pre- KFAC. The publication of the cation he has received.

One of the big advantages of extended to cover the other af-Caltech is that it offers all students equal opportunities to engage in extra-curricular activities. We have no professional football players; no journalism majors to edit a school paper;

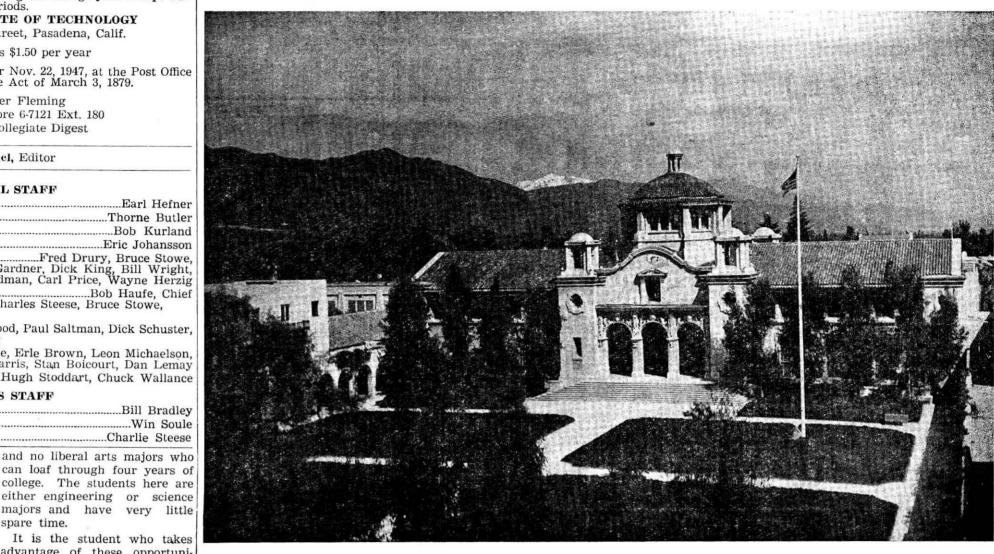
N. Raymond, Pasadena SY. 6-5100 Open 12 M., Cont. Daily



Plus . Another Top Attraction



### THROOP HALL, CENTER OF THE INSTITUTE



Throop Hall, the center of our campus. This building, more than any other represents academic life on campus. This building means many things to the students.

### CAMPUS BREWINS

plied that we are prejudiced tried very hard, the boor.) against their fair subscribers. What a complete distortion of fact! What cutting injustice! We retch.

Let us say, then, explicitly: The Ladies of Scripps are sports, considerate, well-balanced and . . . sweet.

An entire hall-full of these jewels descended on Ricketts Stan Barnes and Bill Woods, Dabneymen at Turner's Beer eager to defend their respective claims, hastened over to elbow dents intends to continue living out the less-athletic Rowdies. Stan, wishing to appear as masculine as possible, even neglectwilling to receive a lesser schoa fine figure of a man!

Of course, Ricketts was there, tain very definite minimum) but too. Bowen, Willis, and Gillett sure are clean-cut fellows! be better prepared to benefit found only one girl to their book learning he has received. were only eight girls that he waste of time, energy and much proved itself, as Dan King was etts history. Dave Durham needed ability to obtain the edu- being cut out so rapidly by his downed four Class A's to start cation offered by Caltech and Crudite friends that he asked the party. His personal celethen not be able to use it in Bradley and Drapes to reserve a spot on top of the Washington Monument. Norm Schroeder's only comment was unhappiness over a statement from one maid, comparing him with a certain Pomona football player. All considered, Ted Bowen termed straight "A" average, or some of the student body has acquir the evening "a very successful

Could enlist no gripes about Dabney's Campus Exchange. pare himself to utilize the edu- Gas Company program is an ex- All types, sizes, shopes, ages, cellent idea, and it should be and contours were present. Jarvin Heimann found it difficult to extract himself from the

In a recent issue of the Scrip- | amorous clutches of a vivacious ture, a sweet young thing im- brunette. (We don't think he

Blacker thought it was a keen night for an exchange, too. Pyatt was taking the lead in a ring-around-the-rosey, with Brodie, Cuse, and Hendrickson emerging with less conspicious charming, intelligent, good honors. Art Bruington was piously demanding more light, a medieval concept.

> Our pigskin pounders' moral victory over Pepperdine was Joint in L.A. It has our seal of approval. The inspired songs and yells of Techmen quite drowned out the bawdy and obscene trivia of the SC men present. Something about a 7-point win over UCLA. We may not winn all of our games, but we

Ricketts was in true orgiastic the game, there occurred one bration involved a Third Anniversary of Freedom.

We can't tell for sure whether there were a large number of unwell Rowdies Sunday morn-

(Continued on Page 3)

From our wide selection

#### Throop, Caltech, and Snakes...

Why did you come to the Institute? What made you choose this school from among the many colleges you could have entered?

You may have come here because of the high academic standards which Caltech is reputed to have; or you may have come because of parental pressure. Your parents may have had a wish to see you get a degree from an Institution with the standing of

This editorial is dedicated in particular to all you "Snakes," to those of you who are not greatly interested in anything except your academic life. Remember that you are a member of the Associated Students of the California Institute of Technology, and as such you have a considerable responsibility. In last week's issue of the paper, we printed a letter from a

student at M.I.T. who tried to bolster his position of non-approval of extra-curricular activities. This week we have a letter from one of our own students who attempts to refute the views expressed in last week's letter.

There are many arguments to be made on each side, but the following facts should be remembered:

1. When you leave Caltech, you will have to know how to get along with people. You will have to work with others, you will have to apply for jobs, and even if, in the most extreme case, if you are going into research, you will still have to apply for positions and present your discoveries to other research workers.

2. To get a job, you must balance academic and extra-curricular society with the education and liking; Jack Dyer said there form Saturday night. Following activities. The importance of being well balanced is sufficiently stressed at the institute, but it must be remembered that this does In conclusion, I think it is a liked. Last week's prediction of the greatest stags in Rick. not mean that academic work should suffer. Interviewers like to see a man who has been active in extra-curricular activities, but even a very large amount of outside activity will not make up for a low grade point average.

> 3. Outside activities are important to many men, in particular those with just average grades. Hence the right to indulge in these activities should not be hampered in any way. But unless the rest of the student body also supports these activities, by attending football games, by voting in school elections, and by taking an interest in student life, the few who desire to participate will be hampered by the ennui of the others.

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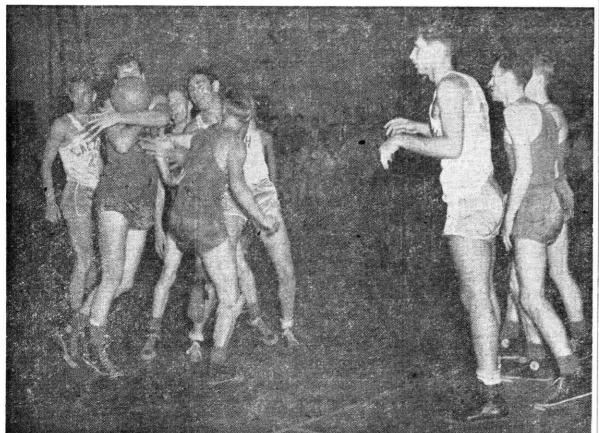
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BASKETBALL --- SPORT OF STRAIN!



The inimitable Goon-brittle-beak sports writer, local campus wheel, Fleming dignitary, et alpictured in a tense moment from the Redlands game of last winter, which the Beavers won, incidentally, 50-36. Mr. Saltman and the others who make up the Shy-coached machine opened their season with a 62-47 loss to Muir in a practice game last week. The dribblers are preparing nightly for the Redlands Tournament December 2, 3, and 4.

#### Oxy, Loyola Best Water Polo Team

Last week was indeed gloomy Interhouse Bowling for the Caltech water polo team. The Loyola and Occidental squads drowned the Tech tanksters in two engagements which broke with fury on a hapless Beaver aggregation.

The Loyola Lions, who have ways with a victory over CIT, ed an overall mean of 146 this 12 to 5. Bill Palmer and Dick week, far above the usual 138. Libbey accounted for all of Tech's goals, while Jerrie Mc-Nulty of the Lions equaled the total Beaver effort with five tal-

At Eagle Rock last Friday, the Tech tile tappers were defeated in the final minutes of play by a hard fighting Occidental team. The Orange and White overtook this week, six teams set new the Oxy squad in the 3rd quarter and went into the lead by one point. But the Tigers with a valiant rally sank three goals in the closing minutes to pull ahead of the Techmen and win, 9-7. Libbey, Palmer and Hall each accounted for 2 points, and guard Bob Stert tallied once.

### Ricketts Survives Rough Week In

In the hottest week of Interhouse bowling yet, Ricketts came out on top by winning seven out of eight points. Throop and Andy Check was second with Dabney each managed 4-4 splits while Blacker and Fleming had 184-529, Carl Fox had 202-509, to be satisfied with three and Dave Baron had 173-500, and beaten just about all the promituo wins, respectively. All hous- Ralph Erickson rolled 202-498. nent teams-in Southern Califor- es except Fleming raised their nia, continued their winning averages as Tech bowlers boast-

Present	stand	ings.		
House	Won	Lost	Pct.	Ave.
Ricketts	34	14	.708	154
Throop	28	20	.583	149
Dabney	23	25	.479	130
Blacker	21	27	.438	135
Fleming	14	34	.292	128

Nine out of ten teams broke the 2060 mark for total pins season highs, with Ricketts No.

#### TYPING

THESES PAPERS MANUSCRIPTS CORINNE BABCOCK · SY. 9-2462

THAN ANY OTHER CIGARETTE

Doctors smoke for pleasure, too! And when three leading independent research organiza tions asked 113,597 doctors what cigarette they smoked, the brand named most was Camel!

Two's 2160 series leading the bunch. Throop No. One fired a high game of 740, best of fif- tics on the basketball court. teen above the 700 mark, the most in any single week in

two years of IH bowling. Top game and series went to Woody Bratnober again this 200-557, Bob Benton third with

Top averages at the one-third

Name	House A
<ol> <li>Woody Bratnober</li> </ol>	
2. Ray Heggland	T
3. Bob Benton	T
4. Carl Fox	R
5. Andy Check	R
6. Gene Mooring	T
7. Sid Stone	R
8. Ralf Erickson	T
9. Dick King	D
10. Bill Culbertson	D

### Basketball Men Interhouse **Drop Opener**

Last Thursday afternoon our Beaver varsity baseketball squad opened the '48-'49 season against John Muir C. C. lads were still a bit rusty from the long lay-off since last season (it seems as though they were unsuccessful in their attempt to have the Acme Brewing Co. sponsor them in the summer AAU circuit), and they dropped their first practice tilt by a score of 47-62.

#### Word From Hall

The word from the Hall in need of Flame, the National Guard Armory, has it that Coach Shy is running the legs off our boys this year right from the start. Thursday they apparently spent a bit too much time running and not quite enough putting them through the hoop, with the short score as the result. Kidding aside, the team didn't look bad at all after only eight days of practice.

#### Battle Police

The next night they scrimlooked a hundred percent better. No score was kept up at the cop gym, but our Beavers held those pros about even. That is good word, for some of the law lads are indeed pro quality, and they don't hesitate using some of their delinquent-taming tac-

#### Lack Practice

This lack of practice is indeed the only point against our boys. In the Muir game there were a considerable number of fouls week for scores of 210 and 593. and cases of ball-fumbling, and poor and slow ball-passing. The team had trouble working the ball into the center. Muir jumped into an early lead and seemed to be able to sink anything in the vicinity of the basket.

> Montgomery showed up particularly well with his speed, as did Sereno. Cox, from whom we expect big things this year, left early with a bloody schnozzola.

(Continued on Page 6)

## Baseball

Dan LeMay

Last week's Interhouse games showed a little more baseball than the previous week's juggling, but the teams are still not showing the talent displayed by most high school groups. The boys looked better in the second lap of the I.H. race as the fight to stay out of last place grew more spirited.

Blacker eked out a 7-6 upset Norm Gray. Norm switched to basketball and Deane Smith, pitching his first game anywhere, just didn't have the experience to come through.

#### Ricketts Edges Dabney

A scared Ricketts nine came from behind to down Dabney in Wednesday's match. Both teams scored in nearly every inning. The Rowdies trailed during most of the see-saw tussle, but came 6-5 final score was a heartbreakmaged with the L.A. Police and chocolate - sundaeless through not yet given me their address,

> Blacker, after Tuesday's display against Fleming, relaxed in you are in this category, why front of the Throop steamroller. The nine determined off-campus and let me know where you men started fast and finished live? first, not having been threatened at any time. Blacker went down in a 12-4 defeat, coughing a little chalet. The lights (electric, that from the dust.

#### Basketball Deletes Teams

to be commended for the way they have survived the beginning of basketball practice. The Fleming aggregate suffered most, having lost all of its pitchers. Bert Snyder and Don Stewart decided that there was greater glory in Frosh Basketball than in the Dabney outfield. Ricketts wasn't hurt, as they can still coast on the pitching of the Grand Old Man of Baseball, Rube Katchedoorian.

Fleming Overpowers Rowdies Ricketts went down 7-2 on Monday under a Fleming nine

#### Christying

with Carus

We are planning another Caltech Ski Club meeting soon, the date depending on when we can get Johnny Litchfield to come and lecture and show movies. This renowned character is chief instructor at Sun Valley, and so ought to be qualified.

The Southern California Intercollegiate Ski Union (SCISU) is having a meeting on December 2 here at Caltech, and we are over Fleming on Tuesday. The going to draw up a schedule of Big Red team was handicapped races for this coming season. without the pitching prowess of This Union consists of most of the prominent schools of Southern California, and promises to be quite active. There are going to be six or seven races similar to last year's, and although jumping and cross-country will be encouraged, they will not count for winning these meets,

Here is a fact that is misunderstood about our ski club. By joining our club, you are entitled to get THE SKIER, a magthrough in the last division. The azine that has the largest ski circulation in the west. There er for the Dabneyites, who are are many members, who have and so cannot receive this beautiful publication. Therefore, if not drop down to Ricketts 49

The ski hut will no longer be considered a hut: it is now a ski is) are so bright, that when you go out into the sparkling snow, On the whole, the teams are your eyes will be already ad-

> that played smart baseball. No fewer than 5 Rowdies were out trying to steal, including one attempt at home.

This game put the standings in a circle, as Fleming beat Ricketts, Ricketts beat Dabney, Dabney smashed Blacker, and Blacker beat Fleming. The totals are more enlightening:

Fleming		3
Ricketts		3
Dabney	***************************************	1
Throop		1
Blacker	***************************************	1
- Indiana in the same in the s		



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#### **HOUSE RULES**

(Continued from Page 1) in the Student Houses except in the Bicycle Room or such other place authorized

by the Resident Associate. 9. No intoxicating liquors shall be brought into the Houses, or consumed there.

Possession of unauthorized

Houses or a subordinate other programs? thereof, one of the Resident Resident Associate may use well. a master key to open a room in an emergency. The room should be locked upon completion of the visit.

12. Violations of these rules shall be reviewed and penalties determined by the U. C. C.'s of the House in question, subject to approval of the Resident Associate.

13. During vacations none of the above rules is suspended. The reasons for the first three There should be no objection or

discussion on them.

Rule 5 is to keep the tiles on the ureable amounts from the efroof from damage, while rule 4 forts of loud-mouthed grandis to maintain a neat appearance stand quarterbacks. Our presof the roofs and to protect students from being charged for I've seen in four years at Tech, broken tiles. If Building and but no one can deny that not Grounds finds an aerial leading even the bestest of the best into someone's room and a num- megaphone manipulators can ber of broken tiles on the roof, inspire victory with a bunch of

and simple enough except rule 8. shoving, or pulling OUR team the game, and sincerely feel that rule seems to victory. I was a member of that we contributed to the lost back in the old days of the the tonsil tearing group that team, and if anything, gave our houses since there has been no went to the game to have a good school a shot of red, warm trouble from bicycles left around time. I yelled my loudest, even blood that might help avoid the the houses since the war. Per- at the expense of 97 sets of ear- eternal railroading to the back last unknown card, the nine. Dehaps when the younger students drums and a few shocked of the darkest mausoleum we clarer can now finesse the Diabecome more predominant in the young-or old-innocents. By now suffer at the hands of the student houses, the number of the time the game was over, public. bicycles will again increase.

#### SQUARE'S CIRCLE

(Continued from Page 2) ternoon programs as well. Yours truly, Steven Weisbrod

This is an interesting idea.

Associates, the President of number of requests, we will fective mixing of the dancers which are gathered from bidding the House concerned, or a try to extend our schedule to kept everyone on his toes most student authorized by the cover afternoon programs as of the evening.

#### Yell Louder

Editor; The California Tech:

Several of the "Rooty-tootabout the spirited cheering that was, er-ah-um—supplied at the would do these individuals a lot questions. of good to go see a Big Game-Cal-Stanford, Army-Navy, Schmipps-Amalgamated Morticians, rules are certainly clear enough. or what have you. I'm sure that the fight and drive that spurs upsets, such as that we Rules 4 and 5 belong together. almost enjoyed comes in measthey can only assume that the deadheads, who are more interseveral of our group had given

DUPONT Maest

### Dabneyites Hold Campus-Girl Frolic

Last Friday night marked the Considering the large number occurrence of a dance unique in of letters we have received ex- the annals of student house hispressing appreciation for the tory: a Dabney-Campus Girls printing of these programs, it Frolic. The results, as predicted Student House master keys might be possible that more in last week's paper, were highshall be subject to punish- programs would be well receiv- ly gratifying to all concerned. ed. How about it? Would you The numbers of boys and girls were even more attractive than If we receive a reasonable had been anticipated, and the ef-

> Social Chairman Don Royce did his bit to entertain the throng by putting on a quiz program, pitting a picked group of girls against a highly intelligent HAK 10 9 3 2 toot, we're from the Institute" group of Dabneyites. To elimi- C & 8 5 non-entities are complaining nate possible charges of favoritism, the girls were asked technical questions while the boys Pepperdine game. Perhaps it received highly non-technical

#### CAMPUS BREWINS (Continued from Page 2)

etts lounge!

ing, but immense volumes of Episcopal Breakfast.

Another celebration Saturday

our Hero of the Week, Teddy of the contract. Einwohner, was studying. Not er-much too dark. Where? In in his room, for his roommate originally held six Hearts and wanted to sleep. Not in Black- three Spades. The lead of a Club the geometrical center of Rick-

person who put up the aerial did ested in Emily Post 1a, or even more than enough—or perhaps All of the other rules are clear thrills of MRW than pushing, had a fine time. We enjoyed

Horace (Hoarse) Cruddite Spades.

#### Who Dealt This Mess

By Carl Fox

Counting the original suit distributions in the opponents' hands is one of Declarer's more important jobs. This is not ordinarily a difficult procedure. 11. The Manager of the Student like to see the schedule of were just about equal, the girls The count must be based on two types of indications, those which are proven in the play and those and play and which there is no reason to believe false; for ex-

West opens the King and Ace coffee were consumed at the of Hearts, East discarding a Club. The third Heart round is ruffed by East and the Jack of night, Jack Kester Willis's Clubs returned, the Ace winbirthday; he was carried home. ning. Declarer must now locate In the midst of such gaiety, the Diamond Queen to be sure

After taking three Spade tricks Declarer can count that West to the King and the ruff of a Club return serve no purpose but to allow the counting of the a night back at school with the had more than enough, but we suit. Now the count on West's hand shows three Spades, six Hearts, and at least three Clubs. The remaining card may be either a Club or a Diamond.

> The six of Diamonds is led to the Ace, West following with his mond Queen in East's hand with perfect confidence-making four

#### THE EVENING CONCERT

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Program for the Coming Week

FRIDAY, NOVEMBER 26, 1948

Weekly Feature Concert—A Night at the Opera

L'ELISIR D'AMORE (THE ELIXIR OF LOVE) - Abridged, by Donizetti. Soloists, Chorus and Orchestra of La Scala, Milan, conducted by Lorenzo Molajoli (48).

ERNANI-ABZRIDGED, by Verdi. Soloists, Chorus and Orchestra of La Scala, Milan, conducted by Lorenzo Molajoli (40).

MADAME BUTTERFLY—(HIGHLIGHTS), by Puccini. Licia Albanese, Soprano. Lucielle Browning, Contralto. James Melton, Tenor. \* Victor Symphony Orchestra conducted by Frieder Weissmann (25).

#### SATURDAY, NOVEMBER 27, 1948

EUGEN ONEGIN, by Tschaikovsky. Soloists, Chorus and Orchestra conducted by Mehlik-Pashayev.

#### MONDAY, NOVEMBER 29, 1948

ALCESTE—OVERTURE, by Gluck. B.B.C. Symphony Orchestra conducted by Sir Adrian Boult (8).

SYMPHONIA DOMESTICA, by Richard Strauss. Philadelphia Orchestra conducted by Eugene Ormandy (40).

BENNO MOISEIVITCH, PIANIST.

CONCERTO No. 2 IN C MINOR FOR PIANO AND ORCHESTRA, by Rachmaninov. London Philharmonic Orchestra conducted by Wal-

HUNGARIAN FANTASIA, by Liszt. London Philharmonic Orchestra conducted by Constant Lambert (16).

THE FAIR MAID OF PERTH, SUITE FOR ORCHESTRA by Bizet. London Philharmonic Orchestra conducted by Sir Thomas Beecham (15).

#### TUESDAY, NOVEMBER 30, 1948

THE MERRY WIVES OF WINDSOR-OVERTURE, by Nicolai. B.B.C. Symphony Orchestra conducted by Sir Adrian Boult (8).

SYMPHONY No. 1 IN B FLAT MAJOR (SPRING), by Schumann. Boston Symphony Orchestra conducted by Serge Koussevitzky (33). FRITZ KREISLER, VIOLINIST.

CONCERTO No. 4 IN D MAJOR FOR VIOLIN AND ORCHESTRA, by Mozart (K. 218). London Philharmonic Orchestra conducted by Sir Malcolm Sargent (26).

SCENES ALSACIENNES, by Massenet. Minneapolis Symphony Orchestra conducted by Dimitri Mitropoulos (20).

THE GREAT ELOPEMENT, by Handel-Beecham. London Philharmonic Orchestra conducted by Sir Thomas Beecham (24).

#### Sunday Musicale Program SUNDAY, NOVEMBER 28, 7:30 P. M.

The Pines of Rome......Respighi Matthias the Painter.....

Symphonie Fantastiue, Opus 14.....Berlioz

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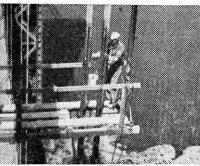
### Science paints the future

For Students of Science and

41 of every 1,000 U.S. chemists are engaged in production of paints, lacquers, varnishes and colors

Modern paint making is an outstanding example of chemistry at workof the way the scientific approach has replaced rule-of-thumb methods.

Today, paints are formulated by chemists to meet specific needs. In their search for better finishes, these highly trained technical men are aided by the electron microscope and infrared spectroscope. A variety of gonio-



would quickly weaken this structure. Because "Dulux" resists salt water and salt air. it has for years protected many famous bridges.

photometric and spectrophotometric devices are used by the physicist and physical chemist in the study of gloss and color.

Du Pont men have produced many superior finishes. One of them, "Dulux" nitrocellulose lacquer, made mass production of automobiles possible by shortening paint drying time from weeks to hours.

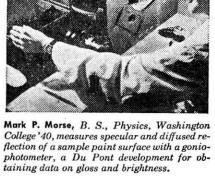
Finish failures - chipping and scratching-were costing manufacturers of home refrigerators a million dollars a year before Du Pont chemists developed "Dulux" synthetic resin enamels, based on alkyd resins. A "Dulux" coating on metal or wood dries into a film that even a hammer

blow won't break. Tests with mechanical scrubbers prove it outwears old-style enamels by more than five times. "Dulux" enamels now guard boats, large and small, as well as petroleum tank farms, machinery and other industrial installations.

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mass spectrometer installation which can make an analysis in three hours that formerly took three months. High pressure equipment, ultra centrifuges, molecular stills, and complete reference libraries are other tools which speed research and enlarge its scope.

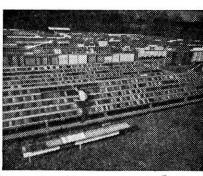
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#### Talkin' It Over With The Goon

Can't remember a more exciting weekend of football than last weekend's menu. It was one moral victory after another; one exciting hard fought encounter following another.

#### Outside

Let's talk about a few outside first. The Uclan-Trojan tilt was who according to the local and Creary. scribes should have stayed at their basketweaving classes at Westwood, sent their friendly rivals from Figuroa to the shower room liberally applying Sloan's linament to numerous cuts and bruises. While in the north, Stanford, possibly because they wanted Dr. Wallace "Bear" Sterling, one of the biggest boosters of athletics to be found anywhere, to set foot upon the Farm with a bearskin rug underfoot and Jackie Jensen's mangled run Dec. 11 at Tournament Park. body covered with All American write ups lying by the wayside, all but won the Big Game and took over the Axe.

#### Oxy-Pomona

Scouts from the Sagehen feast of the Tiger tell me that as usual after running into Oxy a few of the Hens suffered broken and brittle beaks. Oxy seemed to Soccer Squad Ties have the upper hand all the way. McColl was tightly bottled up, Pomona In Finale and the burden of the attack fell upon Herbner, whom many of our players feel is the better of the two ball players. Oxy's powerful line backers kept the middle tightly closed, and when the Hens took to the air their wings were quickly clipped by numer-14-0, ending an undefeated season for the Eagle Rockers.

#### Praise

Just don't know how to lavish the praise upon the pigskinners for last weekend's game. In short, they were GREAT. From the opening whistle to the final gun the Waves were always in trouble. Our line was as tight (Continued on Page 6)

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#### Leatherlungers **Upset Redlands** To Head League

Caltech's championship bound cross-country squad upset Redlands previously undefeated "iron men" by a score of 25-30 over the Bulldog's grueling three mile course last Friday.

Placing first and second for Redlands were Livengood, finamazing to see. The Bruins, ishing in a fast time of 16:51,

> Marshall, Mason, Cornelius, Peterson, and Cobb crossed the finish line in a solid bunch to place third, fourth, fifth, sixth, and seventh for Caltech.

The Beaver Harriers, fired up by a pre-race pep talk, have won the first victory from Redlands in several years.

So far the Beavers' outlook is good for winning the conference championship cup at the 4-mile

Redlands, which has been defeated only by Tech in conference meets, has beaten Pomona and Whittier. The Beavers meet Whittier's team this Tuesday, and Oxy and Santa Barbara next Saturday.

Friday afternoon the Tech soccer squad, playing at Tournament Park in their last game this season, tied Pomona, each front of the goals, but both deous interceptions. Final score fenses held and no score was made in the first half.

> On the third quarter Pomona drew first blood by scoring during a melee in front of the Tech goal. In spite of having almost constant possession of the ball in the last quarter, the team couldn't score until the last minute. Right wing Dave MacKenzie skidded through the tying goal. Because of darkness the tie could not be played off.

#### PASADENA BOWLING COURTS 970 East Colorado

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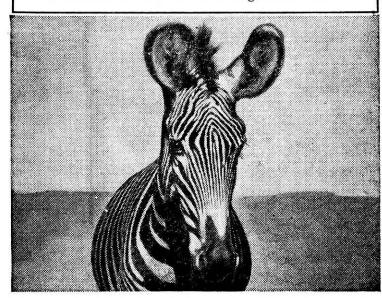
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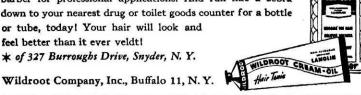
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# Beaver



The winner in the Tech's Pigskin Prognostication Contest turns out to be none other than the genial Institute Athletic Director, Hal Z. Musselman.

### team scoring once. From the start the game was played in Hustlin' Hal Takes Honors In Grid Prognostications

ball games recorded in the heads a supposedly mediocre club. We of alumni of the future for regungitation at class reunions, the results from Pigskin Prog- crazy the season was. nostication have been completed.

#### Hal Wins

After three weeks of close competition, Hal Musselman was out in front by a healthy lead. But Sports Editor Thorne Butler suddenly started to pick upsets all over the place; Stanford over Washington, Ohio over Illinois, and Harvard over Yale. The race was tied all the way until that horrible mess took place at Eagle Rock last Saturday when Oxy downed Pomona

and had to concede victory to choice of Cal over Oregon. Hustling Hal. In the dust of the "experts," Coach Anderson Goon Saltman brought up the rear, in that order.

Next when considering the results of score differential. Thorne Butler squeaked by The Hustler by 0.040 percentage points.

This part of the contest was probably the more difficult, since scoring on the gridiron this season took all kinds of bounces.

#### Upsets

The prognosticators had a fine Saltman season considering the frequent Sports Staff upsets. Heavy favorites would Athletic Dept.

With most of the 1948 foot-, suddenly go cold to be licked by only need to mention the Ohio over Illinois upset, or Stanford-UCLA debacle to show how

> All in all it was an interesting season, showing some new and surprisingly good talent in Stan Heath of Nevada and Rote of SMU. There were so many players of All-American caliber that any national pickings is going to be lacking a top notcher or two in every position.

In team rankings, steady powerhouses like Michigan, Notre Dame and Army still dominated the field. In small college ball, Santa Clara and even Occidental had surprisingly good teams. Finally, the only major argument Mr. Butler fell at this point will be over the Rose Bowl

Final prognosticators Stand-

26	4	0.867	
25	5	0.835	
23	6	0.793	
23	7	0.767	
49	10	0.832	
48	12	0.800	
and	actual	on win-	
d.	Act.	Pct.	
31	409	0.687	
	25 23 23 49 48 and	25 5 23 6 23 7 49 10 48 12 and actual	25 5 0.835 23 6 0.793 23 7 0.767 49 10 0.832 48 12 0.800 and actual on win- d. Act. Pct.

0.647 0.594

0.562

0.642

411

340

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### **Grid Season Ends** In Moral Victory

#### Pepperdine Given Scare As Beaver Eleven Edged By Wave Machines

For 14 Caltech Seniors on the Tech teamcmfwyetaoincmfwm

An inspired Beaver Eleven took to the field last Saturday night and showed Pepperdine College what a clean, hard-hitting, well rounded team looks like. The Peps, who have been scourge of small college competition on the Pacific Coast for three years, were lucky to emerge victorious, 14-12.

The Beavers were psychologically right to play their best game of the season. For 14 Caltech Seniors this was to be their last game. Added to this was the team's general dissatisfaction with their showing two weeks ago against Redlands. Everyone who saw the game or watched it on television, will agree that they really played fine ball.

#### Peps Score Early

The game had hardly started when Bell took Bob Funk's 43-

#### Frosh Sports Roundup By Leon Michaelson

With the football season already forgotten, we hear the patter of tiny feet as the Frosh hoopmen take to the hardwood. Better than four full teams are out this year, presenting to hit Carson with a pass for the Coach Ed Preisler a promise of a good season.

The Freshmen five journeyed to Pasadena College after less than a week of practice, playing a very close game to the end only to drop it 48 to 43. More impressive, perhaps, than the display of buckets, was the alert defense and ball recovery. The Little Beavers, with little chance to work together beforehand, showed in themselves a squad with great aptness in ball handling and a surprising lack of confusion. Pasadena knew they had played a basketball game!

#### **Cross Country**

We extend a hearty cheer to our cross country team for taking the meet at Redlands. It was classed as a win by default but we want to make it clear that the Frosh men were far in front no matter what the decision. Coach Bud Carrol's team has a good chance to hold the championship won by last year's class. We go to the Whittier meet too late for printing, so we'll have the particulars next

yard quick-kick and ran it back 79 yards for the first Wave score. Leon converted, and the score

was 7-0 before either side had

made a first down. Late in the first period, Tech started rolling with the accurate passing of Don Baker to ends Odell Carson and Don Hibbard. Baker to Hibbard was good for the TD, but Bob Funk couldn't

extra point attempt. Pepperdine began rolling on the ground in the second quarter, but a pass from Hyduke to Embree scored their second touchdown; again Leon converted.

#### Beavers Threaten

Tech rebounded to threaten immediately when Baker again passed to Carson for 37 yards to place the ball on the Peps 25 yard line. Don's next pass was intercepted, however, and the Waves began to roll.

Turning the tables, Merle Kam hauled in a Pep pass on the Tech 31 and ran it back to the Waves 47; but the Techmen gave up the ball on downs on the 31 shortly before the half ended.

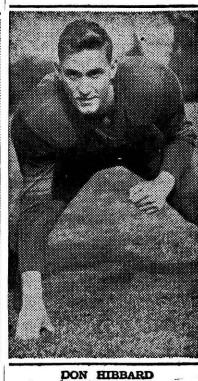
#### Tech Scores Again

Late in the third quarter, Bob Funk kicked out on the Wave 15 yard line. On the first play Pepperdine fumbled, and John Kariotas recovered for Tech. This, incidentally, was the third Wave fumble of the evening that Caltech recovered, a consequence of heads-up ball and the hard

(Continued on Page 6)



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#### TALKIN' IT OVER

(Continued from Page 5) as it ever has been, the backs Match To USC As were charging like locomotives, and our defense sensational. Tech Rally Fails With a little more luck on our conversions we could have come up with a tie. I hate to single out any individual in a game like Sunday evening at the Trojan last Saturday's, but Mighty Merle | Bowl in Los Angeles. Tech got watch about three monsters from off to lose the second string by the Peps come charging at 62 pins for a 14 pin deficit going Merle, who stands about 5'8", into the final game. with only mayhem in mind, and then see these same monsters pick themselves off the ground the seventh frame of this game Ph.D. degree. and see that Kam had nabbed when Tech started to pile up the runner. The kid was snatch- strikes in an attempt to pull an rise in the educational world has ing passes out of the hands of Horatio Alger finish. Troy held been exceptionally rapid and has defenders that towered above on, however, to win the game by combined research, teaching and him. In fact I think he was rep- a mere five pins, and the match administrative duties, the kind resentative of all the men who by only 19 pins. The victory of experience that fits him well played in there that night.

#### Narrow Miss

It was a great Tech team that narrowly missed conquering the was fired by Woody Bratnober year and every man on it de- Brooks with a 193 game and a serves a big hand.

#### Leatherlungers

Congrats to the Cross Country squad and Bud Carrol who upset the dope bucket by handily taking Redlands and Whittier in a three way meet at the Dog House. From the showing they made out there and barring any mishaps they should carry the Orange and White to a Conference Cross-Country Champion-

It is surprising how many men have graduated from Tech and are now coaching. Look at Bud Carrol coaching Cross-country, Bill Dixon on the water polo team. It looks like the Hustler might become the Dean of Physical Education after all.

Remember to get your tickets to the Fall Athletic Banquet early this year. There are only a few left. It should be better than ever. See you there.

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### Bowlers Drop Close STERLING SUCCEEDS

Caltech's bowling team lost another close match to U.S.C. this

#### Trojan Lead Dwindles

Troy boasted a 90 pin lead in could have been reversed by one for the exacting responsibilities well-placed Tech strike.

Highest series of the match Stanford faculty.

020 0021001
Individual scores:
CALTECH
Ray Heggland162-156-167- 485
Carl Fox156-161-164— 481
Bob Benton
Andy Check148-143-158— 449
Woody Bratnober199-178-199 576
Total823-753-843—2419
U.S.C.
Bud Brooks176-146-193 515
Bill Randle146-158-180— 484
Dick Palmer158-157-154 469
Ricky Glasman144-173-153— 470
Al Money151-181-168— 500

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In commenting upon the appointment, Mr. Paul C. Edwards, president of the Stanford Board of Trustees, said today:

"We are indeed gratified to secure a man of Dr. Sterling's marked ability and scholarly in-Kam turned in a fine perform- off to an early lead by taking the terests to be the new president ance. It was almost pathetic to first game by 48 pins, then cooled of Stanford University. He will come to the campus not as a stranger but as a former student who spent five years there pursuing research and postgraduate work in preparation for his

"Since leaving Stanford his he will assume as head of the

"As director of the famous highly touted Waves. It was a of Tech as he put together a pair Huntington Library at Pasadena great Tech team that played a of 199 games with a 178 score for he occupies a place of distinseason of 60 minute ball games. a 576 total. Best scores for the guished intellectual leadership. It was a great Tech team this Trojans were made by Bud We consider it most fortunate that he recognizes the Stanford riors came to a close. They direction and as a challenge to victory was over LaVerne, 22-21. university, under his guidance, victory last week showed that will be wisely administered and the Beavers were capable of putably by his predecessors in the conference. .775-815-848-2438 office of president."

#### **GRID SEASON ENDS**

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hitting of the Beavers. Funk Redlands Meet; worked the ball down to the Wave 15, and then romped into Bullpups Default the end zone standing up on the next play. The PAT attempt by Jim Schofield was no good. The Tech team was handicapped in this department, as in others, by absence of Chuck Norman, out with a knee injury since the Oxy game.

The rest of the game was nip and tuck, with Pepperdine trying to score through the air, and Tech rolling along on both land and air. When it was all over, Tech had made 10 first downs to Pepperdine's 14.

Bob Funk played two backfield positions and called the plays, running up a full 60 minutes of playing time. Manuel Bass also went the full circuit at tackle. Craig Marks, Don Baker, and Don Hibbard played 58 minutes each.

#### In the Cellar

Thus the 1948 campaign of Mason Anderson's gridiron warpresidency as an opportunity for wound up in the League cellar, still greater achievement in that winning zero. The team's lone his talents as a scholar and But their fine showing against teacher. We are confident the Oxy, losing 25-13, and their near advanced in accordance with the ting together a combination of high standards established by its spirit, ability, and determination founders and carried forward so on a par with any team in the

Playing their final game for

## Frosh Harriers Win BASKETBALL MEN

squad have again proved that playing. they have an unbeatable combination when they whipped the Redlands squad in the two mile cross country run last Friday at Redlands.

the meet are rather curious. Officially the Tech Frosh won by have a high potential. We can default since five men from a easily field a team with every squad must finish to qualify the man over 6' 3". Even with Sesquad and Redlands only finished four men.

If Redlands had entered a fifth man however, and he had finished tenth, Tech would have chintzed out of it, something won by a score of 23 (C.I.T).-32 (Redlands).

proved his ability by coming in on the LACC campus, followed first with a time of 12:34. Parker by the Redlands Invitational of Redlands finished second with Tournament on Dec. 2-4. Let's a time of 12:53. Bob Parnes and follow the squad this year. We Ron Connor took third and can look forward to a very sucfourth respectively for C.I.T.

the Institute were the following seniors: Bob Funk, Manuel Bass, Don Hibbard, Dennis Long, Bob Walquist, Fred Darms, Dick For Review Of Policies Schuster, Bill Sylvies, John Kariotis, Dave Powell, Forrest Allinder, and Byron Karzas. Seniors who were injured, and hence didn't play were Bill Muehlberger, Ray Johrde, and Bill Rumer.

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Art Bruington, who has finally managed to compromise his doctor, showed very well with a lot The Tech Frosh cross country of well-needed fight and hard

Reserves troubled us to a certain degree last year, but it appears that we will have a fine set this season in addition to a mighty good first team. There The circumstances concerning are about fifteen men on the squad now, and most of them reno or Highly-short Monty in there we can average 6-3.

This week's practice game with UCLA was cancelled — they about rules-and our next practice tilt is with Los Angeles City Bill Pinkington once again College next Tuesday afternoon cessful season.

### Caltech Musicale Meets

There will be a business meeting of the Caltech Musicale on Tuesday, November 30, at 12:30 in Dabney Lounge. All members and officers are urged to attend. Policies of the organization are 

