

## Techmen await weekend dances

### Scripps exchange tonight at 8:30

Once again, Techmen are looking forward to the first exchange dance of the year, at Scripps College for girls. The event is scheduled for this evening, and is under the auspices of the ASCIT. Dorsey Hall is the exact location, and 8:30, the time.

The girls plan to start the dance in the outside court with a retreat to the inside lounge if appropriate weather conditions prevail. The dance folds at midnight by the iron hand of the housemothers, but experience has shown that most of the girls have one o'clocks, with automatic two o'clocks for the seniors.

#### Transportation

Transportation will be arranged at the individual student houses. If this exchange turns out as well as our other Scripps exchanges, the new students who go will no doubt retain the same favorable impression of those girls from Scripps, as is common among the more knowing upper classmen.

## Sharp appointed head of division

Dr. Robert P. Sharp, Professor of Geomorphology, has been appointed Chairman of the Division of Geological Sciences at Caltech this summer succeeding the late Dr. Chester Stock, who died in December, 1950.

In announcing the appointment Dr. DuBridge said:

"The Division, with the addition of two outstanding men in Professors Harrison Brown and Heinz Lowenstam, has now embarked on an enlarged program of research and teaching in the newest and most rapidly developing phases of earth science arising from application of nuclear chemistry to problems of geology. Dr. Sharp's outstanding abilities as a scholar, teacher and administrator make him the ideal man to lead the Division as it enters this new stage of its development."

Professor Sharp, 40, native of Oxnard, California, is an alumnus of Caltech. He received the Bachelor of Science degree in 1934 and the MS a year later, then continued graduate study at Harvard University and was awarded the PhD in 1938 and has been on the Caltech staff since 1947. His contributions to science have primarily concerned current and ancient geological processes which have operated on the earth to produce the landforms and surface deposits now visible.

#### Likes glaciers

He has studied Alaskan glaciers for four summers. This research has provided an understanding of how glaciers flow and also an accurate gauge of the observed warming of the northern climate. Professor Sharp has

(Continued on Page 5)

### Frosh attend Y tea dance Sunday p.m.

This Sunday, new Tech students will have their first opportunity to get acquainted with the local female population. The occasion—the new students Tea Dance, sponsored by the YMCA, and beginning at 2:30 in the afternoon.

Featured at the dance will be a program of entertainment by the new students themselves, along with other local talent, under the direction of MC Mill Hosler. The girls themselves will hail from PCC, Oxy, Muir and South Pas. Any freshmen who have cars and would like to help drive some of the girls to the Tech campus, should contact Bernie Schweitzer, room 22-Ricketts, immediately. First come, first served.

#### Refreshments too

The dance will take place in Dabney Hall Lounge, with sports clothes in order for the men. For those frosh who are not especially attracted to the female sex, refreshments will be served, as an extra attraction.

In view of the preparations already made, the "Y" predicts that this year's Tea Dance will be an even bigger success than usual. Those frosh who might be afraid of being beat out by the upper classmen will be glad to know that the dance is restricted to new students only, with the ASCIT officers acting as doormen and bouncers.

## Sailing Club

The Caltech Sailing Club will have a very important organizational meeting this Sunday, October 6, at 7:30 pm in 206 Dabney. All new members must be present and should bring dues.

## Frosh return from camp snowed with Tech poop

By Dave Cantor

Five busloads of Frosh and transfer students left Caltech for Camp Radford, in the San Bernardino Mountains, Friday morning, September 26, at 8:00 am. Also in this retinue were the Beavers and members of the faculty. For three days the unsuspecting Frosh were indoctrinated into Caltech ways.

#### Speeches

Speeches ranging from "I Say It's Spinach" by Professor Eaglesen in which spinach was not mentioned once, to "Pigeons on the Grass Alas, but not a Distant Magpie" by Mr. Gordon Weir.

The student leaders were introduced to the freshmen by John Gee, president of the ASCIT, and the faculty by Dean Strong. The Honor System was described by Professor Kyropoulos and Pat Fazio. Cheeleader Dick Jaffe taught the Frosh the

## Dean Thomas dies after several weeks' illness

### Help wanted

We need writers, copy readers, reporters and other staff members. Help make this a better paper. Good experience, rapid advancement, short hours, excellent working conditions.

See Dave Tilles in room 49, Dabney, or come down to the Tech office in Lower Fleming next Monday night.

## Dean's office explains draft deferments

Although the draft situation has changed only slightly during the past summer, here is the latest advice from the Deans' Office concerning you and your relations with Selective Service.

1. The biggest specific change from last year is that a minimum full time load to be eligible for an educational deferment is now 45 units.

2. All who are registered with Selective Service should have their name, SS number, and number and address of their draft board on file with Mrs. Kennedy in Room 119 Throop. If you have never given this information to her, or if you are in doubt about it, see Mrs. Kennedy.

#### 1-Aers see Dean Jones

3. If you receive a 1-A classification at any time in the future, see Dean Jones immediately.

4. Freshmen and others who have been classified this summer or during the past year for the first time and are 1-A should ask their local boards for a 1-S classification. This must be granted

(Continued on Page 5)

## Southern California loses great leader in school and civic affairs

Franklin Thomas, revered Dean of Students and professor of Civil Engineering at Caltech, died Wednesday, August 27, in the Huntington Memorial Hospital. His successor has not been announced.

Attending Drs. Leroy B. Sherry and William E. Delphey said that death followed complications after abdominal surgery. Dean Thomas had been ill for several weeks.

Southern California lost a great leader with the passing of Dean Thomas. Caltech President Dr. Lee A. DuBridge stated, "Dean Thomas' death constitutes an irreparable loss both to the California Institute and to the community. He has made an outstanding record as an engineer, as a citizen, and as a Dean of Students. His absence will be deeply felt by his faculty colleagues and by the students and alumni of the Institute."

Franklin Thomas, long admired and beloved by his associates, joined the Caltech faculty 39 years ago. He came to the Institute in 1913 as Associate Professor of Civil Engineering to develop that department. Two years later he received full professorship, and in 1917 and 1920 he acted as chairman of the administrative committee of the faculty during the absence of the President. For 20 years he served as Chairman of the Division of Civil and Mechanical Engineering, Aeronautics and Meteorology, following his appointment in 1924, and since 1944 was Dean of Students at the Institute.

Professor Thomas was honored as a national civil engineering figure when the American Society of Civil Engineers elected him President in 1949. He joined

(Continued on Page 5)

## King frosh prexy BOD picks officers

Dave King was chosen to act as President of the Freshman class for the first term by the ASCIT Board of Directors up at Frosh camp. Dave is already familiar to many upperclassmen who met him last year at this same time. He is now back again after more than a two-term absence from Tech.

Chosen to assist King were Vice President Fritz Trapnell currently in Ricketts, Secretary Fritz Benning in Blacker, Treasurer Berry Raleigh, Athletic Manager Phil Conley in Dabney and BOD members Jerry Pixon in Fleming and Carl Marquis. The Tech wishes you a successful term.

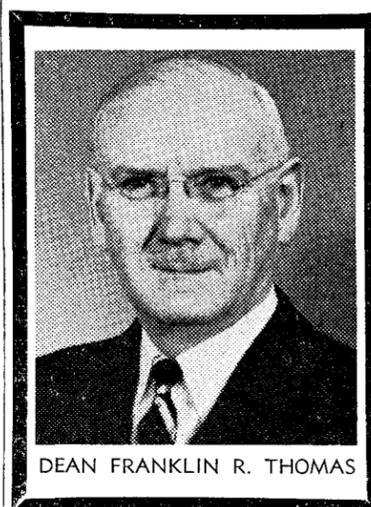
## Campus Calendar

**FRIDAY, OCTOBER 3**  
4:30 Special Lecture in Physics. 201 Bridge

**SATURDAY, OCTOBER 4**  
9:30 American Association of Physics Teachers, 201 Bridge  
8:00 Varsity Football vs. Redlands at the ROSE BOWL

**SUNDAY, OCTOBER 5**  
2:30 Tea Dance for New Undergraduate Students, Dabney Lounge and Garden

**FRIDAY, OCTOBER 10**  
8:00 Varsity Football vs. Pomona at the ROSE BOWL



DEAN FRANKLIN R. THOMAS

## President's welcome

September 26, 1952

To all Caltech Students:

The Institute extends a cordial welcome to all students at the opening of the new school year. We trust that all students—new and old, graduate and undergraduate—will have a pleasant and rewarding experience here this year. Caltech prides itself on the fine spirit of friendliness, of cooperation and of earnest endeavor—a spirit which is shared by students and faculty. We know that this spirit and the high ideals of the Institute will be carried forward his year as in the past.

L. A. DuBridge,  
President

## Shop application deadline on Oct. 10

Student Shop Foreman Jerry Ross has announced that the deadline for new members to make application for admission to the shop is next Friday, October 10. Application blanks may be obtained from Phil Birkeland in room 20 Ricketts.

Members must be checked on their ability to use the power tools by a shop committee man, but no demonstration is required for the hand tools.

The fees are: admission \$1, dues \$1, and key deposit \$1. Thereafter dues are \$1 a year and the key deposit is refunded when the key is returned for good. If interested contact Phil Birkeland R-20, Jim Crosby B-34, Bill Gardner R-73, Ed Gauss B-50 or Jerry Ross (off campus).

Instruction classes for power tool operation may be announced later in the Tech.

(Continued on Page 4)

## Your paper . . .

That's right. It is your paper. And the only way we can improve it is if you help us.

When you don't like something about the paper, tell us about it. If you've got an idea for additional subject matter, for a change in style, content, format, tell us about it. Letters to the editor are always invited and so are suggestions.

### Not afraid of controversy

Our aim will be to provide a paper which is read by a maximum number of people. We expect to arouse considerable comment, discussion and disagreement occasionally. That's fine. That's one of the principal purposes of a paper.

However, in order to print a good paper, we need more than your letters, your suggestions, your gripes. We need YOU on the staff. If we have more of you on the staff, the paper will be better and at the same time there will be less work for everyone. None of us are journalism majors. None of us have a great deal of time to devote to the paper. However, if we can build up a large staff, we can have a first rate college newspaper.

### Extracurricular activity

We need writers, we need copy readers, we need reporters, we need assistance of all kinds. We appeal for help to freshmen and upperclassmen alike. If you've had any experience writing, working on a paper, or in a printshop, fine. If not, this is a good opportunity to gain some experience.

You don't have to put in very much time working for the paper, and we think you'll enjoy the time you do put in. It's a good chance to get into extracurricular activities right from the start here at Tech. And you will have the satisfaction of knowing that you are helping to make the **California Tech** into a better newspaper.

We'll see you in the Tech office Monday night.

## ASCIT gives budget for coming school year

For the benefit of those students who wonder what happens to the money collected for ASCIT dues, the budget for the 1952-53 school year, as approved by the Board of Directors is as follows:

### INCOME

Membership Dues (590 @ \$12.00) .....	\$ 7,080.00
Bookstore Divident (590 @ \$2.50) .....	1,475.00
Big T Assessment (590 at \$3.00) .....	1,770.00
	<hr/>
	\$10,325.00

### EXPENSES

Athletic Awards .....	\$ 1,757.98
Miscellaneous Awards .....	266.38
Rally Committee .....	450.00
Assemblies .....	\$300.00
Pajamarino .....	100.00
Election Rally .....	50.00
Office Expenses .....	155.00
Stationary .....	\$40.00
Stamps .....	15.00
Telephone .....	65.00
Miscellaneous .....	35.00
President's Expenses .....	50.00
Vice President's Expenses .....	35.00
Election Expense .....	25.00
Forensics .....	400.00
Debate .....	\$400.00
Drama .....	0.00
Publicity Expense .....	235.00
Photo Supplies .....	\$200.00
Transportation .....	15.00
Stationery .....	10.00
Miscellaneous .....	10.00
Social Program .....	1,325.00
3 Dances @ \$425 .....	\$1,275.00
Frosh Tea Dance .....	50.00
Athletic Banquet .....	250.00
Director's Banquet .....	100.00
Publications .....	4,510.00
California Tech .....	\$1,500.00
Big T .....	3,010.00
Little T .....	0.00

Sub-total .....	\$ 9,559.36
Contingency Fund .....	765.64

Total .....

Respectively submitted,  
George Moore,  
ASCIT Treasurer.

## Secretary's report . . .

The Caltech student body issues a hearty welcome to the new freshman class and to the upperclass transfer students. We know that you will enjoy your stay at Caltech. We know, too, that you will benefit from the activities which your student body sets up through the ASCIT organization; these activities, athletic and social, are yours now.

### Participation

It is well for all of us, whether we are new students or are returning to school after a summer's vacation, to be reminded that the ASCIT doesn't run by itself. Your interest, suggestions and clear expression of your opinions concerning activities are essential to the ASCIT. The Board of Directors meeting is your chance to learn and to speak your mind; it is held each Thursday night at 7:30 in lower Fleming. Come on down!

### Tech Editor

At the present time, the **California Tech** is being published

under Dave Tilles, who has been appointed temporary editor-in-chief. Within a few weeks an ASCIT special election will be held to name an editor for the first two terms. If you are interested in running for this office, see any member of the Board of Directors. But in any case, watch for the notice of nominations and election date.

Respectfully submitted,

George Johnston  
Secretary, ASCIT

## Caltech Pharmacy

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SYcamore 2-2101  
Pasadena 1, California

## ASCIT Cards

All students — frosh, undergrads or grads — who have not received their Associated Student Body Membership Cards or who have lost them should report to the Athletic Office in Building T-1.



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## California Tech

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Member

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This chap represents thousands of young, red-blooded sons of great American families. He is ready to stand on his own, to carry his share of responsibility. He is preparing for a bright future and desires to train further toward his success. He wants peace, security, and a full life for his family and home. If need be, he is ready to defend his rights and his country. When called on to serve in defense of American liberties, he will be fully trained and equipped to fly and fight with the U. S. Air Force.



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## Sorensen retires

Royal W. Sorensen, Professor Emeritus of Electrical Engineering, entered full retirement as of September 1, after a 42-year career at Caltech.

### To continue work

Professor Sorensen, who has the longest service record of any faculty member, has been on a half time retirement from his professional duties for the past two years. He plans to continue his high voltage equipment research on campus, and will also supervise the construction of 200,000-ampere current testing equipment, being built on the campus to his design under the auspices of industrial companies.

### High volts work

The High Volts Lab at Caltech, the first one in the country to have million-volt power frequency facilities, was the result of Prof. Sorensen's designs of a cascade system of transformers. With the aid of the laboratory's high voltage facilities, he has been instrumental in the development of high voltage transmission lines, lightning prevention for oil storage tanks and other projects of benefit to the

industrialization of Southern California.

### From Colorado

Born in a log cabin in Wa-baunsee County, Kansas in 1882, he spent his childhood and college years in Colorado. The University of Colorado awarded him the Bachelor of Science degree in 1905, and later the EE and DSc degrees.

### To Tech in 1910

Prof. Sorensen came to Caltech, then known as Throop Polytechnic Institute, just after the move to the present campus site in 1910 with the purpose of starting an EE department. The opportunity of working with George Ellery Hale and James Scherer in producing a new type of engineering college brought him to California from his industrial job with GE in Massachusetts.

### Advice to minors

He has served many important committees and organizations both on and off the campus, was a faculty chairman for one year, and chairman of the physical education department for many years. He still tells his students that the best advice he can give them is to do what he did—hitch their ambitions to the ideas of good men.

## Concert series starts in Dabney

This year the Sunday evening series of chamber concerts, which was so successful last year, will be continued. They will be presented in Dabney Hall lounge at 8:00 pm.

The concerts are in part made possible by a grant from the Music Performance Trust Fund of the Recording industry as arranged by Local 47 of the American Federation of Musicians, John te Groen, President. The programs have been selected and co-ordinated by Philip Kahgan. The series is at Caltech through the efforts of Dr. Hunter Mead of the Humanities division. There will be no admission charge.

October 12, 1952

**Hollywood String Quartet**  
Quartet No. 2 in D Minor,  
Op. 76 .....Haydn  
Quartet No. 1 .....Walter Piston  
Quartet No. 4 in F (American),  
Op. 96 .....Dvorak

October 26, 1952

**Sonata Recital**  
Sonata in G minor, No. 3 Bach  
Sonata in G .....Arnold Bax

Notturmo in D,  
Op. 42 .....Beethoven

November 9, 1952

**Concert of Flute and Strings**  
Duo for Viola and Cello  
in E flat .....Beethoven  
String Trio No. 2  
(1933) .....Hindemith  
Serenade in D, Op. 25, for Flute,  
Violin and Viola Beethoven

November 23, 1952

**Pacific Art Trio**  
Trio in B flat, Op. 11 Beethoven  
Trio in B, Op. 8 .....Brahms

December 7, 1952

**Los Angeles Piano Quartet**  
Sonata .....Jean Baptiste Loeillet  
Piano Quartet in E flat,  
Op. 47 .....Schumann  
Piano Quartet in C  
minor .....Faure

## Square dance Sunday

The Caltech Square Dance Group will meet this Sunday, October 5, and every alternate Sunday, in Culbertson Hall from 8 to 11 pm.

The group will be under the direction of Bea and Barry Binns who will teach many new and interesting dances and squares.

## Y at the beach next weekend

ence of the Caltech YMCA will again be held at the summer beach house of J. Stanley Johnson at Emerald Bay from 11:00 am October 11 to 3:00 pm October 12.

The keynote speaker will be Bruce Maguire, the Regional Executive Secretary of the Student YMCA in the Pacific Southwest Area. His topic, to be given at the Saturday afternoon session will be "The Challenge of Religion to Students in this Modern World."

### Swimming featured

Following a discussion of this topic the group will work out a tentative program for the coming year with activities winding up in time to get back to the campus for Sunday supper. Between sessions there will be ample time for swimming, football, and other activities to round out the weekend.

The conference will be attended by approximately thirty people including the Y officers, several of the faculty and alumni, and graduate and undergraduate students interested in the Y and its programs.

Anyone interested in the Y and in expressing his ideas for the coming year's program is welcome to attend the Conference. See Frank Dryden at Blacker or Wes Hershey at the Y office as soon as possible. The cost will be \$2.50 to cover meals.

# STUDENTS!

# Make \$25<sup>00</sup>

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YEAR!

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Then, if we select your jingle, we'll pay you for the right to use it, together with your name, in Lucky Strike advertising . . . probably in this paper.

Read the sample jingles on this page. Then get the gang together, break out the rhyming dictionary, and start writing. It's fun! And we're buying jingles by the bushel!

*Hint*—if you can sing your jingle, it's a good one!

*Hint*—the more jingles you write, the more money you have a chance of making.

*Hint*—be sure to read *all* the instructions!

I've heard the same in every class—  
In history, psych, and ec—  
For cleaner, fresher, smoother smokes,  
It's Lucky Strike, by heck!



I like a better-tasting smoke  
And mildness counts with me.  
So when I buy I keep in mind  
That L.S./M.F.T.!



### HERE ARE THE INSTRUCTIONS

1. Write your Lucky Strike jingle on a plain piece of paper or post card and send it to Happy-Go-Lucky, P. O. Box 67, New York 46, N. Y. Be sure that your name, address, college and class are included—and that they are legible.
2. Base your jingle on any qualities of Luckies. "Luckies are made better to taste better," is only one. (See "Tips to money-makers.")
3. Every student of any college, university or post-graduate school may submit jingles.
4. You may submit as many jingles as you like. Remember, you are eligible to win more than one \$25 award.

### \*TIPS TO MONEY-MAKERS

To write a winning Lucky Strike jingle, you're not limited to "Luckies are made better to taste better." Use any other sales points on Lucky Strike such as the following:

L.S./M.F.T.  
Lucky Strike Means Fine Tobacco  
Luckies' cigarette-tearing demonstration  
Luckies taste cleaner, fresher, smoother  
Be Happy—Go Lucky  
So round, so firm, so fully packed  
So free and easy on the draw  
Buy Luckies by the carton  
Luckies give you deep-down smoking enjoyment

## THE SPACE BEAVER

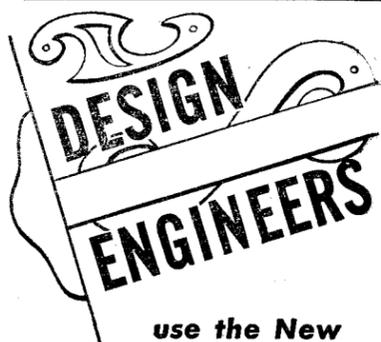
By WALT LEE

The Man in the White Suit  
J. Arthur Rank Organization  
Alex Mackendrick, director  
Alec Guinness, Joan Greenwood

The story for the movie was by Roger MacDougall. It is a science fiction yarn on the effects of the discovery of a perfect synthetic fiber upon individuals in both management and labor. Suppression of the discovery seems to be the only solution, and labor and management unite; they find, however, that the fiber becomes unstable with time. Their troubles were really nonexistent. Sidney Stratton; the discoverer, is not convinced, in fact, he appears to have found the flaw as the picture ends.

The actors and actresses were adapted to their parts—this is true of the smallest bit parts, the four main parts (Alec Guinness as Sidney Stratton, the young scientist; Joan Greenwood

(Continued on Page 5)



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What is it ye do, ye dark  
and secret midnight hags?  
A deed without a name.  
—Macbeth

And that will describe this  
year's Brewins—an un-named  
form of journalistic dementia,  
consisting of whatever gossip,  
wit, and pure poppycock that can  
be gotten from the doings of the  
Caltechnicians.

**Foxing the deans**

We would like to suggest a se-  
cret code for use in future col-  
umns, for the purpose of fooling  
those ever-critical readers, the  
deans. In this code, beer appears  
as reeb, whisky as ykshw, and  
soda pop as pop ados. We are  
sure the average Techman will  
be able to quickly catch on to  
the code, but we feel it doubtful  
that the deans will ever do so.

**Take note**

A warning to the frosh: The  
fruit juice they will be getting  
for breakfast is not pure acid,  
but it is half-acid.

**Dabney prowess**

CMC may have been present  
in greater numbers last Friday at  
the CMC-Scripps exchange last  
week, but Dabney House had the  
wheels. Stocky had a hall presi-  
dent and Bryan had the Scripps  
prexy's daughter. Hanvey took  
his gal to Vernon's, and a mad  
correspondence has been going  
on between them all week.

**Freeman shunned**

The applause that Freeman re-  
ceived sometime during the sum-  
mer seems to have turned fellow  
Darbs against him. They won't  
even touch him any more. Oh  
well, maybe the performance was

**Christian  
Fellows meet**

On Friday night, October 3,  
the Caltech Christian Fellowship  
will present its first program of  
the year. Mr. Tom Westwood, a  
fellow of the Royal Geographical  
Society will present a message  
on Christianity and its relation-  
ship to present-day intellectual-  
ism.

An informal period will fol-  
low, during which new students  
will be able to get acquainted  
with the members of the fellow-  
ship. Refreshments will be  
served. The program will get un-  
der way at 7:30 pm in the Dab-  
ney Hall of Humanities lounge.  
All students and their friends  
are cordially invited.

worth the applause.

We have been a little rushed  
these past few days, what with  
rotation and the confusion (men-  
tal and physical) of getting back  
into the old groove. Consequently  
there hasn't been much dirt dug  
up. Next week we promise you  
the full quota.

**Grad salaries  
greater**

Higher salaries were offered  
this year to June graduates of  
Caltech, Professor Donald Clark,  
Director of Placements, reported  
recently.

**\$750 for Ph.D.**

They averaged \$5 to \$60 per  
month more than last year, he  
said. Salaries as high as \$527  
were offered students with a  
BS or MS Top figure for the  
advanced engineers degree was  
\$585, while the PhD degree com-  
manded salaries to \$750. The me-  
dian monthly salary for bache-  
lors was \$340, for masters \$405,  
engineers \$475 and for PhD's  
\$495.

**Graduate demand increases**

More than 130 organizations  
sent representatives to Caltech  
to interview students for pros-  
pective employment during the  
past school year, an increase of  
38 per cent over 1950-51. More  
than half of the bachelors and  
masters seeking employment ac-  
cepted jobs through these cam-  
pus interviews. The others, as  
well as most of the holders of  
engineering and doctorate de-  
grees, found work through their  
own efforts.

**Grads back for more**

The proportion of Caltech men  
planning to continue their edu-  
cation in graduate schools re-  
mained high, Professor Clark re-  
ported. This group includes 44  
per cent of the graduating sen-  
iors and 28 per cent of the MS  
degree recipients.

**On to industry**

Industry was the primary  
choice of employment-seeking  
students with bachelors and mas-  
ters degrees being selected by 79  
and 59 per cent respectively.  
Twenty-three per cent of the  
PhD graduates selected posi-  
tions in industry, while 57 per  
cent chose research jobs and 17  
per cent teaching.

**Baby-sitting popular**

Baby-sitting was the most pop-

**FROSH CAMP**  
(Continued from Page 1)  
gave a speech "Caltech Is Yours"  
in which he gave a partial finan-  
cial report of the Institute.

**Eagleson tops**

Honors for the most talked  
about faculty member easily  
went to Professor Eagleson. If  
awards had been given for the  
most quoted speech Earl Jacob's  
speech "The Innocents" would  
have taken them Summa Cum  
Laude.

Mountain golf was the favorite  
sport with Dean Strong winning  
over all the others who played  
the course by making the high-  
est score ever recorded. Volley-  
ball and baseball were also  
played, but the Frosh refuse to  
divulge the score of the Faculty-  
Frosh game.

ular form of part time employ-  
ment for Caltech students dur-  
ing the school year, Professor  
Clark said. Reasons for this were  
good hours and wages, and the  
possibility of utilizing the time  
for study.

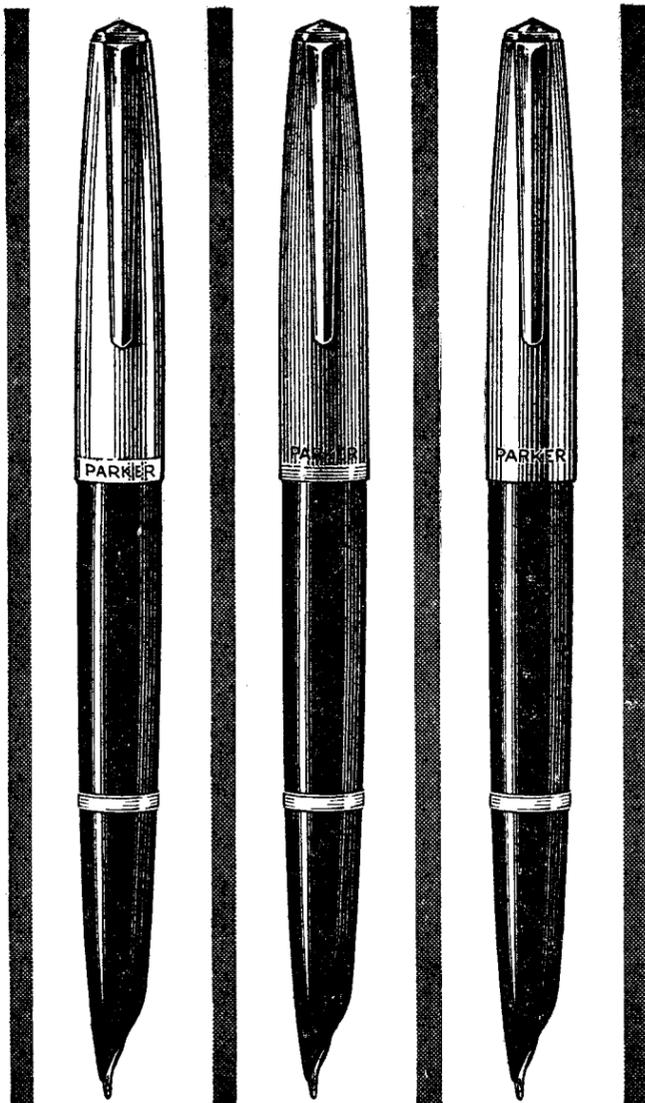
**Jobs exceed students**

The Placement Office secured  
jobs for 399 men during the past  
year, including 83 for part time  
jobs, 191 for summer positions,  
permanent work for 92 seniors  
and graduate students, and  
helped 33 alumni to obtain bet-  
ter positions. Jobs listed with  
the Placement Office greatly exceed-  
ed the number of students re-  
questing work.

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all "Sanforized" fabrics, of course.



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**DEAN THOMAS DIES**

(Continued from Page 1)

the Society in 1912 as a junior member, and became successively associate and full member.

His interests outside academic circles were many and varied. Probably no other single person was as responsible as he for obtaining Colorado River water for Southern California. He was named by Governor Earl Warren in 1947 a member of the Colorado River Board of California, and a year later was appointed Chairman of the Board.

An authority on water supply, irrigation hydraulics and silt deposits, Professor Thomas was a member of the Board of Directors of the Metropolitan Water District of Southern California since its organization in 1928. He was vice-chairman of the board from 1929-47, and also served as consultant on flood control and sanitation projects for the City of Los Angeles and the Counties of Los Angeles and Orange.

A great civic leader for many years, he received the Arthur Noble Medal for distinguished service to the City of Pasadena in 1939. He served that city as member and vice-chairman of the Board of Directors, and President of the Chamber of Commerce and Community Chest. He was influential for many years in the cultural growth of Pasadena and Los Angeles through his great love for music, and was President of the Pasadena Civic Orchestra Association.

Member and former vice-president of the American Society for Engineering Education, he also held membership in the American Water Works Association, California Sewage Works Association, Sigma Xi, Sigma Tau and Tau Beta Pi. He also was a member of the Kiwanis Club, Cauldron Club, Twilight Club, New Century Club, and the Board of Trustees of the First Congregational Church of Pasadena, in which group he was active for many years.

**DRAFT**

(Continued from Page 1)

by the draft board to anyone who has not previously received any kind of educational deferment and is not a postponement but a regular classification.

The letter requesting this classification must be written within ten days of receipt of notice of classification and must contain the information that you are a full time student in good standing and that forms 109 and 242 attesting to these facts have been filed with your draft board. These forms will be filed automatically, but only if you have given the information in section 2 above.

**Appeal now**

5. If you have been reclassified 1-A from some other classification, you should immediately see Dean Jones who will give you instructions regarding an appeal. This appeal together with a letter from the school should be sent immediately.

6. If you received form C-242 from your draft board during the summer, leave it with Mrs. Kennedy in Room 119 Throop as soon as possible. If you do not have this form, the school will file it together with form 109 automatically.

7. If you have troubles with your draft board that are not covered by the above information and on which the school can help, see Dean Jones.

**SHARP APPOINTED**

(Continued from Page 1)

found, for instance, that the expenditure of water by the Seward-Malaspina glacier system exceeds its income by about 850 billion gallons in a normal year.

**Investigations**

His study of small-scale structures in glacial gravels in Illinois has shown that the area must once have been frozen for hundreds of years. He also has investigated the glaciation of western mountain ranges, structure and development of the Basin Ranges in Nevada and the mechanics of landslides and debris flows.

**Brief Biography**

As a student at Caltech he was quarterback on the football team, captain of the team in his senior year, and was a three-year letterman. After three years at Harvard he taught at the University of Illinois and in 1943 was commissioned in the Army Air Forces to serve in its Arctic, Desert and Tropic Information Center. This assignment took him into the Alaskan-Aleutian theater several times for work on Arctic survival problems and the mapping of air routes and facilities. After the war he joined

**SPACE BEAVER**

(Continued from Page 3)

as Daphne Birnley, daughter of Alan Birnley played by Cecil Parker—his part is that of the textile mill owner—; and Vilda Hope is Bertha who works in the Birnley mill, and all other parts in the picture. Even the required child actress, often a weak link in Hollywood's chain of movies, was made an asset. Also deserving special mention is Ernest Thesiger for Sir John Kierlaw, the Rockefeller-like textile leader. The quality of acting in all scenes was as good as Hollywood's best.

**Sound effects**

The music for *The Man in the White Suit* was played by the Philharmonic Orchestra conducted by Ernest Irving. Suitable as the music is, it is far over shadowed by the noises of the fabulous molecule machine, which makes the synthetic fiber: "Bubble, bubble, high drip, low drip,

the University of Minnesota faculty and in 1947 came to Caltech as Professor of Geomorphology.

He is married and lives at 3090 Miaden Lane, Altadena, with his wife and their 18-month-old adopted daughter, Kristin.

gurgle, gurgle, gurgle, high drain, low drain, squirt, squirt."

Translating author Roger MacDougall's theme to the screen brought about many problems never dreamed of in the original story conferences; for example, the indestructible white suit worn by Alec Guinness had fourteen "stand-ins" before the film was completed.

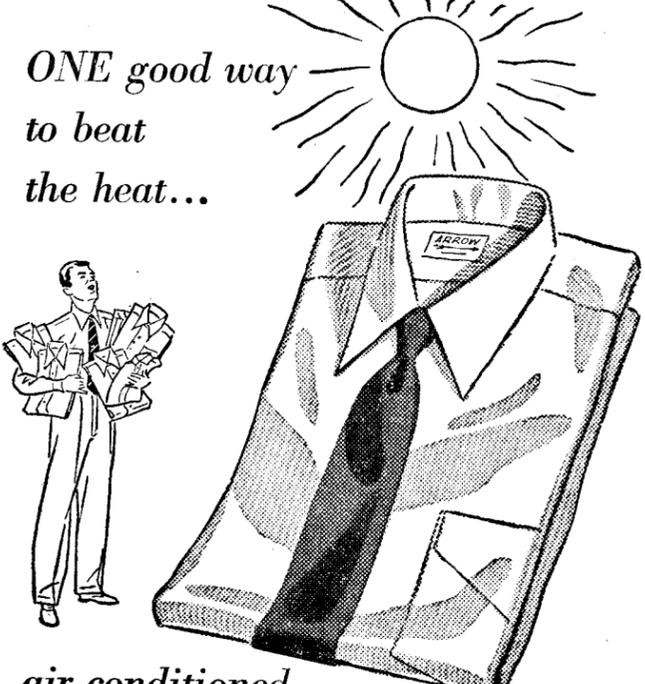
**Acetate rayon**

A special form of acetate rayon was used for the scenes in which Guinness wears the white suit while being chased through the street of the textile town in the middle of the night. Another type was used for scenes taken during daylight hours (to avoid light reflections) and a third, made of paper, for the disintegration process.

The third type (nine were required) proved the most difficult. Most materials either fell to pieces in a cloud of dust or resoundly refused to come apart at all. The "cloth was actually paper tissue with seams strengthened by backings of cotton strips and tape and the pants were made with a wide opening so that Guinness could step straight into them.

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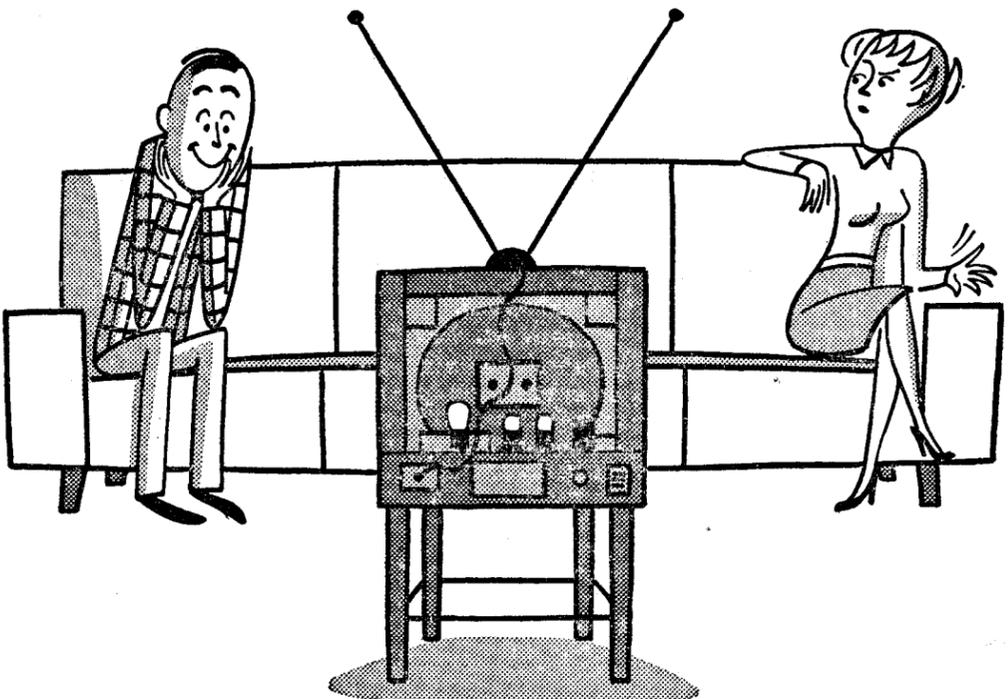
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### Soccermen start after another championship

Last year Caltech's soccer team won the Southern California Intercollegiate Soccer Conference

championship.

This year another winning team is getting into shape. The first term is soccer season and on last Tuesday, the first day of practice 17 men turned out. Practice is held on week days from 4:53:30 pm at the north end of Tournament Park.

Until Coach Huttenbach arrives, October 15, the team will manage itself in preparation for the first game of the season with Thatcher on October 18.

Everyone who wants to play is invited to check out a pair of soccer shoes and join the team.

### Cross country

A red-hot cross country team started Tuesday with light jogging and calisthenics. Bill Pilkington, one of the top men in the conference last year, will be the coach this year.

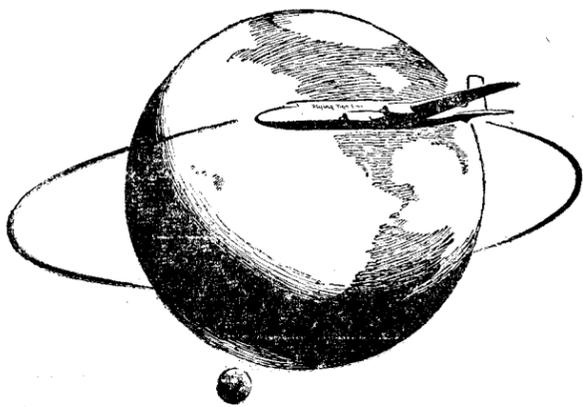
Experience is the keynote this year and with lettermen LaTourette, Crawther, Gardner, Patraw, and Ames returning. In addition are Supple, Cramer, Marshall, and Walkley. Several Frosh are signed up and out early, and more will be welcomed with open arms. Also upperclassmen.

# How the Flying Tigers got over the Hump



**1. In November, 1945, we told the story, in this series, of 12 India-China "hump" flyers from the American Volunteer Group who came home from the war and started an air freight business. They called their company The Flying Tiger Line Inc.**

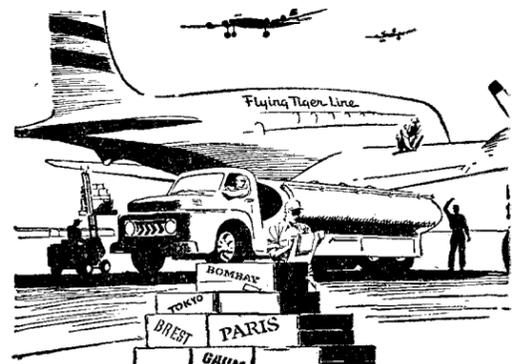
**2. As we told you then,** the veterans pooled all their savings but they still needed additional capital to launch their project. Several Los Angeles businessmen offered to furnish this capital on a 50-50 basis—the veterans to operate the company. This capital enabled them to start operations on June 25, 1945, with 8 war surplus Conestoga cargo planes.



**3. Over the last seven years** the company's growth has been spectacular. Their fleet of planes has grown from 8 to 39. In 1949 they received the first certificate to fly U.S. Air Freight Route 100. And they now operate daily transcontinental schedules to 43 cities, in addition to world-wide contract and charter services. The company has now contracted for seven new DC-6A's—the largest order ever placed for cargo planes.



**4. Last year their fleet** earned a total revenue of \$15½ million compared to \$458 thousand the first year. In 1951 their planes flew a total of over 13½ million miles compared to ½ million miles the first year. Today The Flying Tiger Line Inc., is the world's largest certificated freight and contract air carrier.



**5. The company** has used Union Oil aviation products since it began operations in 1945. But that doesn't seem nearly as important to us as the fact that the men were able to accomplish these things. It could hardly have happened under anything but the American profit and loss system.



**6. For without the profit incentive** the businessmen wouldn't have put up the capital to start the business in the first place. Without the hope of gaining financial independence, the veterans wouldn't have had the incentive to sweat out the problems of starting the company and developing it. Altogether, we think it's a wonderful example of the advantages of our American free enterprise system over others.

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OF CALIFORNIA  
INCORPORATED IN CALIFORNIA, OCTOBER 17, 1890

*This series, sponsored by the people of Union Oil Company, is dedicated to a discussion of how and why American business functions. We hope you'll feel free to send in any suggestions or criticisms you have to offer. Write: The President, Union Oil Company, Union Oil Building, Los Angeles 17, California.*

**Manufacturers of Royal Triton, the amazing purple motor oil**

**Athlete of the week**  
**Jack Walker**

BY NICK

Ed. Note: With the start of a new school year and a new football season, the sports department of the CALIFORNIA TECH wants to help make some of the exploits and records of outstanding athletes on campus a bit more widely known to all sports fans. With this in mind, this starts a series of vignettes of top wearers of the orange and white.

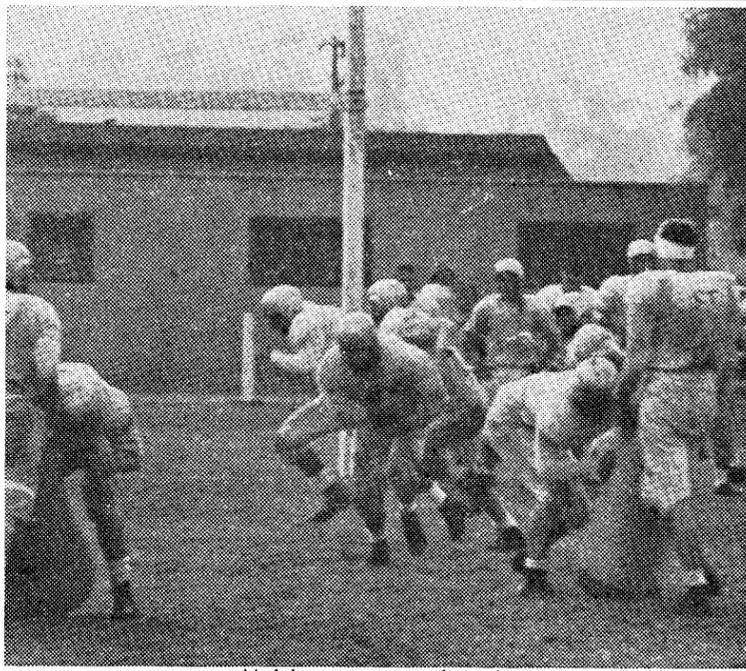
Last June saw a good part of Coach Bert LaBrucherie's first string gridders depart for greener pastures, but one outstanding back returning to the turf wars is halfback Jack Walker. Jack is almost a midget as football players go, standing only five-seven and weighing a mere 155, but that 155 is dynamite when it's loose in an open field as Beaver opponents can tell you.

**Big Gainer**

Last year Walker carried the ball some 27 times and managed to roll up an impressive six yards per carry on the average. He scored three times, once on an 85-yard punt return. He completed four passes, good for 40 yards during the season, and snagged five for a total gain of 77 yards.

**Speed +**

Jack's a senior this year and calls Ricketts home. Way back in his sophomore year he made the all-conference team as a scat-back, and as a safety man he's unexcelled in the league. One of the fastest runners in school, he ran the dashes last year for loose with the ball it's look out



Al Johnson coming through.

the track team, and when he gets opponent.

**The Winnah**

All who saw the Redlands game will remember that play in the first quarter when Fazio took a Redlands punt on Tech's 15-yard stripe, handed it off to (Continued on Page 8)

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**Redlands to be first notch on Tech sliderule**

**First public showing of new "T"**

The Varsity footballers were rounding into shape this week for Saturday's game with Redlands at the Rose Bowl. It is the opening game of the season for Tech, while Redlands opened their season last week, losing to Fullerton JC 19-7. With three weeks practice instead of the usual two before our first game, a repetition of last year's disastrous 26-0 opener against La Verne should not take place.

**Poets, Oxy hot**

This first game is, however, a definite must for Tech to win in order to go anywhere in the SCIC this year. Redlands appears to be the weakest team in the conference. Whittier and Occidental, with their fine showings against Santa Barbara and Davis, respectively, seem destined to fight it out for the championship, with Caltech, Redlands, and Pomona struggling to stay out of the cellar.

**T formation**

An experienced team of 14 lettermen will carry Tech's hopes this year. Coach Bert LaBrucherie has substituted the split-T for the single wing, in an attempt to get the mos out of his material. Changing formations has naturally slowed down the development of the offense, as the timing and blocking are completely different in the two formations, speed and finesse being more important than power in the split-T.

**Roster**

The men who will do most of the playing on offense and defense this Saturday are—Ends: Moose Henderson\*, Tom Janssens\*\*, John Gee\*\*, Ray Grieser, Neil Stefanides\*\*, Chalan Carnehan, John Kidder, Tackles: Gene Muehlberger\*\*, Lynn Abbott\*, Charlie Tallman\*\*, Les Earnest\*\*, Walt Menetray, and Dick Hodges.

Guards: George Mac Donald, Hugh Taylor\*, Ed Miller, Earl Evleth, Loral Decker, John Goeten. Centers: Walt Pilant\*, Dick Manly. Quarterbacks: Pat Fazio\*, Eric Ward, Bruce Kaiser. Halfbacks: Al Johnson\*\*, Jack Walker\*\*, Sam Sims, Bob Christian. Fullbacks: Ed Gehle\*, Bob Proffet.

\*—indicates letters won.

**Peekin' In**

By Patraw

This summer the big sporting news around these parts were the Olympics. The SCIC contributed two to the ranks of the greatest track team ever assembled. One man was Johnny Barnes, who finished out of the money in the 800-meter semifinals. The other man was Bob McMillen. Mac upset all the dopesters by placing second in the 1500 meters, the metric mile. Bob's performance was even more amazing because he had the same time as the winner—3:45.2, the equivalent of about a 4:03 mile. His time was the best ever credited to an American. He beat out men like England's Bannister and Germany's Leug. He proved this was no fluke by repeating a week or so later.

As we go to press, the sports staff is arguing about the Series, starting tomorrow. To this columnist it looks as though the Yanks have the edge in pitching as shown by Dressen's eagerness to start his star reliefer, Joe Black, in the first game. The (Continued on Page 8)

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### Coming attractions

Saturday, Oct. 4—Football, Pomona at Rose Bowl.

Thursday, Oct. 9—Interhouse baseball, Dabney vs. Ricketts; Blacker vs. Fleming.

### Pigskin Prognostications

GAME	Coach LaBrucherie	Mr. Mussleman	John Wall	George Patraw
Southern Cal Army	SC 21	SC 10	SC 17	SC 24
Illinois Wisconsin	tie	Illinois 14	Wisconsin 6	Illinois 9
UCLA Washington	Washington 7	Washington 6	UCLA 1	tie
California Minnesota	Cal 13	Cal 14	Cal 14	Cal 7

### Over the wall

By John Wall

Saturday we'll all get our first glimpse of Tech's '52 model grid machine. Few will recognize it as the team which took Arizona State and Redlands last year, for it will be different from formation to face.

New to Tech is the "T" in both split and conventional forms. The line is loaded with veterans of

### PEEKIN' IN

(Continued from Page 7)

Dodgers have all the edge in power, however. Five men who can break up any game loom out of the Bum's starting lineup. In the past pitching has been the biggest single factor contributing to a winning team because of the shortness of the series. My contemporary, John Wall, picks the Yanks in six games. Because of partiality, I pick the Dodgers in seven games, and you can find me for the next few days glued to the TV set.

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the wars of '51 but it sadly lacks depth. If it stands up physically it ought to look very good as it has size, spirit, and coaching in the familiar form of TV star Pete Marhinger.

The question of physical elasticity is a big one for already three stalwarts are limping: Moose Henderson, Niel Stefanides, and John Goetten.

Perhaps the roughest spot in the smooth-running "T" is at quarterback. Fazio as ever displays his terrific spirit and hard running, while Kaiser's ballhandling and Ward's punting look very good.

The running of Jack Walker out of the left half slot has been great, but this is only normal for the lilliputian tank. All of the fullbacks could use JATO to get moving, but they're all big, rough boys.

If the Beavers can find a passing attack, tackling to match the always good defensive plays of Coach LaBrucherie, and stretch their 28 men through 60 minutes, I predict a season opener victory; if not, we build character.

### ATHLETE OF WEEK

(Continued from Page 7)

Walker in a perfectly executed reverse and Walker went all the way to score. Then later in the game Walker snagged a touch-down pass, contributing greatly to that memorable win over the Bulldogs.

Jack set up the first TD the Beavers scored against Pomona last year on a beautiful 60-yard sprint in the first series of plays. He was injured slightly during the Oxy game, but was back a week later with no loss of his fighting spirit.

Says Coach LaBrucherie of this boy, "I wish I had more like him." And you can bet that Jack will be in there fighting Saturday night against Redlands, and on through the rest of the Beaver's schedule.

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