ASCIT Program Tomorrow To Reveal Inner Workings

The annual public meeting of the ASCIT will be held tomorrow. It is important that students and President Bruce Wastrell not be present. If you wonder how your money is being spent, how the ASCIT affairs are being handled, how your activities are reported and how to register your grapes most effectively you will find the meeting most instructive. Several important issues before the Board at present will also be aired. The ASCIT needs your support and the attendance tomorrow will give some idea of how the Tech student body feels and is willing to back his organization. It is essential that every student in the Tech student body support and attend the Board meeting tomorrow. It is essential that every student take an active part in the affairs of the student body so he can be fulfilling his part at Caltech tomorrow at 11.

LACC Scene Of Next Tech Debate

Caltech's debaters travel to San Francisco City College for their first debate, November 30 and December 1. The question for the debate is the following: "Resolved: that Federal Government should support the development of atomic energy." The entrants from Tech will be LACC's Willi Vrebalovich and Socialists and Thomas Vrebalovich. Today at 3 p.m. in room 206, Dugan there will be an informal discussion with two from Pasadena City College.

Proper Preparation For Next Debate

Except for the bugs "packing" the room which was lowered over the mirror, the proper, at least adequately prepared for the reflector was protected only by thin wrapping paper and plywood. After many hours of preparation for the mirror, a journey was adjourned correct, supervisory vibration gauges and checking instruments had been installed and the mirror was ready to go. Moreover, the three-trailer was edged out of the cockpit by a ship named "Valentine" the bug was attached and started toward the air, even at seven a.m. down to avoid the possibility of the air breaks with a "soothing" and "calming" effect. This was to give the gag and trucker toward. Because of Four elements that bathed the area in a cloudy white fill, there were no clouds of white smoke into the ready. The complete packages were delivered, assembled, photographed, newspaper, news, scientists and police scoured the area. After seven a.m. lights blinked like the cardboard was off.

Improvised Frosh Meet Just Nemesis

The Court of Traditions went into action last Monday at 8 p.m. when it was cracked down on Frosh offenders. These men were arraigned on the charge of not appearing at a Friday attendance - an attendance at which is a requirement for all Frosh for their first term. About a half of the men brought before the court were convicted and punished by sobering them in dark Shin shoes during lunch hour on Mon- day, November 21, at the Women's Forum. They were asked to go to the Frosh Union Club and present their cases before the Club members for their approval.

LACSH Scene Of Next Tech Debate

Caltech's debaters travel to Los Angeles City College for their first debate, November 30 and December 1. The question for the debate is the following: "Resolved: that Federal Government should support the development of atomic energy." The entrants from Tech will be LACC's Willi Vrebalovich and Socialists and Thomas Vrebalovich. Today at 3 p.m. in room 206, Dugan there will be an informal discussion with two from Pasadena City College.

Last week, competing against 130 entrants in the debate, three LACC and three Tech students will be chosen and are expected to stay away from the debate scene.

Caltech students will meet with the University of California today in the debate. Some of the students are expected to stay away from the debate scene.

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**YOUR CAMPUSS BY JOHN WHITELITTLE**

AN EYEWITNESS ACCOUNT OF THE FIRE THAT MOVED "MOH" DAY

Sunday Afternoon, Nov. 10

At 12:30 this afternoon the sight of the atmosphere of an important world event --- the judgment day of the world's -- rock-et age directory are reporters, cameramen, radio and television newsreel or portable trans- cibers, every eye was facing the object; with expression, upon a dozen cameras behind the mirror.

In the midst of all this is Mr. Gough, the public manager answering such anxious questions as "What is the address?"... with a camera you look down on him without hesitation or "How can we get to the laboratory?"

The Cal Triv. that was pushed into the Option Lab. was a special publicity call, with the mirror... glass above the observation window. Over in the Chemistry Lab. a large gray wooden lid. About half way down from it is the frame work of bright orange light. I crossed on one side of the crash as a subject to protrude the mirror itself still rests on the polishing table.

The Cal Tech Begins

The giant host that lift the lid at the beginning was one of the huge mass of machinery is moving... to lift the lid. To the noise methodical area of a large room.

The crash is directly over the mirror now and a crew of maintenance employees... his body and parts of the mirror itself.

The Monday.

The tray was dragged from the lab by the dozen plastic and the radio-condenser tray were attached.

In the Chemistry Lab.

It is about 3:15. An air of mype... the occasion. The roar of the truck moves... the mirror is... the gray lid to be lifted slowly.

Now that remains to be done is the bolting on of side... The mirror is ... A grueling tool is applied... to give the height of the beds the truck lifted... the bed.

He said that at first... He would simply knock on... He scanned the ceiling with... He didn't have the feeling... that the camera was... The camera was... I wo... the mirror was... It was too... It was much more... House... The up... There is no... The main... The men... The first... The men were... It was too... It was much more... It was too... The up... The men... The men... The first... The men were... It was too...

**THE CALTECH METCALC**

PROGRAM FOR SUNDAY, NOVEMBER 24, 1940

MONTGOMERY: "The Development of the Atom" (A cycle of radio plays in 5 volumes)

OLD TOWN: "The Art of Making a Home" (A cycle of radio plays in 5 volumes)

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Ricketts, Danby In Crew-Race, Flatters At Mountain Oaks

Practically everybody who is anybody in the sport of track and field could be found at the combined Caltech-Pomona meet held at the famous retreat, Mountain Oaks, on Saturday night.

Music was provided by Phil and his excellent little band and the hula rocked 'til midnight with polyvinyl tape, as usual. Phil appeared more like a Li'l Abner stomping contest.

Highlights of the evening for the crowd were the Crew Race and Flamer Contents. The Danby team won the race with a time of 31.90, but the Dabney team held their own in the Flamer.

Additional entertainment was offered by the Raymond Hill Trio—Dave Hedrick, Dave Warren and Jim "Pinto" McGeatham and his hula unit. They rendered "Guy the Goldentime"—the Danby House Quartet gave out with "Peruvian Klutz," Impressions group singing developed, and Harmon and Warren gave the audience a hit of jazz.

During the evening, Blackie Snow and his understudy, John Holmes, "sawed" several wayward couples. Credit Larry Duillion and banding the girls—judged by the crowd to be the prettiest—were done by a young fellow entering by audition in the "Li'l Abner" contest.

Context judges included R.A.'s Ace Beland, Fort Lewis, Rydell and Seagard, student from U.C. Club Flamer M.C.'s with help from Auerbach and Dick Axtelor.

CALTECH PRESCRIPTIONS PHARMACIST 575 S. 11TH ST. PASADENA, CALIF (Telephone) 3-6322

NewsNotes for Engineers

Winding wire on a "wedding ring"

This is the "Sea Brown," a machine developed by the Boeing Aircraft Company for winding wire half the thickness of a human hair on a "wedding ring." This wire is to be air driven the flywheel which maintains the wire under tension. A total of 4,000 turns of 36-gauge wire on the core. If we feed this wire to the "Sea Brown" and let it wind without interruption, we will find that the manufacture of coil half the size of those previously possible.

Metal welding that saves millions

Here, pollution and ticked tape are welded together, at the cost of 100 million dollars, as it is expected that 90 per cent of the metal welding will be successfully stopped with this new welding process. The welding is done by a process that accurately controls the amount of electricity used in the welding. By use of this new welding process, it is expected that the amount of metal welding that saves millions of dollars a year in the cost of producing telephone equipment.

Engineering problems are many and varied at Western Electric, where chemists and chemical engineers are constantly striving to find new methods for the development of new products. They work on a wide variety of projects, from the development of new materials for use in the manufacture of aircraft engines to the design of new types of electronic components. Their work is essential for the advancement of technology and the improvement of the quality of life for all.

Western Electric

A UNIT OF THE BELL SYSTEM SINCE 1882

Thursday, November 20, 1947

The CALIFORNIA TECHNOLOGY Project Page 3

Throop Pleading Ends With Dinner, Eaten Squarely

Throop Club Frosh were subdued in their final certate as an informal initiation held at the club's届on Saturday night. In previous, the conditioned Frosh were a heavy square meal while eating on the first three inches of their chairs. But the more our unfortunate managed to get their plate while enjoying the performance, sauce, mashed spuds with gravy, rolls, coffee or milk, and raspberry sauce number either into their own mouth or into their neighbors'.

Moose-Hop Moore, fearing that the prisoners might escape before their trials, made the rounds during dessert.

During cheer, Hancho Borgen Boys made it clear that not only dinner they were friends of the Frosh, but that they had no time for the "etripping" that we have been so skilful in avoiding in the past on our society.

Trials were held under the direction of the charming Bentlons, drawing students from Ricketts, Caltech, and scientists preening in an ad

Associated Oil Bla. This is a step in the right direction, but Best Products & Service

Shading from the Board

by Don MacKib

This column, the latest addition to the Board, is being initiated at the request of the Board of Directors. The general body with the current decision to form a Committee of the Board of Directors.

The Board of Directors, following your suggestion, corresponded to their matters and to help you remember who made it on the board so you know which one to talk to. I'm issuing here all of the Board's recent decisions.

After the play, according to bestestold tradition, there will be dancing and refreshments for free in Throop Lounge.

Now that the introductions are over, I'm going to jump in part of this article. A note on the California Tech. It is bigger (obviously) and is at an expense.

Giant Mirror

(Continued From Page 1)

Booth Romance, a giant mirror on display at the Los Angeles County Museum of Natural History, was recently acquired by the board of directors of the museum. The purpose of the mirror was to aid in the study of the surface of the earth.

The Courtyard of the Caltech Museum, containing a number of Frosh of this year's class, was visited by students from other universities. Some of the students, who are attending the course of study, commented on the beautiful layout of the mirror and the way it is used to study the surface of the earth.

Friday's attendance at the museum was the largest ever seen. The importance of the mirror was demonstrated when the students were able to see the surface of the earth from another country.

This is the time to think about the possibilities of building a mirror of this type. The possibilities of the mirror are limited only by the imagination of the designer.

If you would like to know more about the possibilities of the mirror, please write to the museum. We will be happy to answer any questions you may have.

W., Arizona State University

Camps

Six California students were selected for the National Science Foundation program, which is sponsored by the National Science Foundation, to study at the University of California, Berkeley. The students are: William A. Robinson, John A. Smith, James M. Johnson, Edward T. Martin, Edward H. Anderson, and William J. Brown.

Four of the students are from the University of California, Berkeley, and two are from the University of Illinois, Chicago. The program is designed to provide opportunities for undergraduate students to gain research experience in the sciences.

The program consists of a 10-week summer session, followed by a 10-week fall semester. During the summer session, students will be given the opportunity to work on research projects in their chosen field of study. After the summer session, students will return to their home institutions to continue their studies.

The program is open to undergraduate students who have completed at least two years of college and who are interested in pursuing a career in the sciences.

For more information on the program, please contact the National Science Foundation at 1000 Independence Ave., S.W., Washington, D.C. 20550.
Harriers Gain Double Victory

Statistical enthusiasts ran riot in Tomorrow's Book Saturday morning as Caltech's up-and-coming cross-country equalled against victories over both Occidental and Santa Barbara. The score for the three-mile race was Tech, 20-0, Oxy, 1, and Santa Barbara, 41.

The crosscutters' fingernails were frayed by the time they emerged from their battle with the dual meet score; the figures showed the Barrons were victorious over Oxy by the narrow margin of 25-20; the score was identical in Tech's win over Santa Barbara, while Oxy's victory over the Gauchos was 27-28.

Marchess in Top Spot

Jack Marshall grabbed that position for the Barrons as he turned in the best varsity time for the last two years, 17:53. With performance of this type the Michigan Marvel will be providing the upcoming season with plenty to think about for the re-

minder of the season, thus Pe-

terson, showing a great deal of improvement this year, finished in third spot, while Doug Brown, with only a week of practice, ran.

(Continued on Page 6)

Talkin' It Over

with The Gone

Just got back from the big game in Redlands. Got no brittle weak, no complaints, no sour grapes—just a lot of praise to the Trinity for a well-played en-
counter.

The Queen's Award of the Week goes to Bob Funk. The kid was making about every tackle in the defensive secondary behind call-
ing one of the best offensive. set of plays that we've seen so far. Funk is one of the most im-
poved players on the field, and showing strong arms he isn't going to like the atmosphere out. Pepperidge way after butt knocks in to him a few times.

It was the same old story again out in the escape grooves. We played a brilliant game up to the ten quarters. The line was out-
charging the opposition on every play; the backs were making yardage every time they passed the ball. We had the decis-
ion if we could have just stayed one more round. The defense could have been Wominch in the back-
field to give Chaffee a hand, it might have been Mac if he was-
't running on one leg and gone.

No one can say. However, the team played a hard-charging, head-up brand of football.

Cross-Country

Jack Marshall came through with his best performance of the season on the cross-country trail Saturday. Jack made the desig-
ing point difference by his first place in the grid. But is look-
ing forward to seeing this lad carry the rifleman in next year's track misc.

Up to this date we have performed the dual with Occidental, Cross-Country, and if the men's boys look up there might be an-
other silver cup for Miramin and Miss McHale to put flowery in.

Armored Forces

Not too much news from the Armory. Mr. Musselman (the Hunster) says that there are two

(Continued on Page 6)

Attention Skiers![Image]

PASADENA'S FINEST SKI DEPT.
Skis - Boots - Poles - Bindings - Rentals
ROB STONE, MANAGER
CHAMBERLAIN ATHLETIC CO.
27 SOUTH EL MOLINO
SY. 64181

Ice Skating

Daily 230 to 5, 730 to 1030
Mon. & Sun. Mon. to 2339
Skates for Rent

Pasadena Winter Gardens
171 6th

- SPECIAL - FOR TECHMEN
OAK KNOLL CLEANERS
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24-HR.
CLEANING SERVICE
AT NO EXTRA CHARGE
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LAUNDRY SERVICE
OR
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LAUNDRY
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4 Doors East of Lake
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SPECIAL
All Wool T Shirts
$2.95

Fine All-Wool Jacquard Weave in soft
lightweight yarns - blue, blue, green
or blue
Sizes Small - Medium - Large

HOTALING'S
TWO STORES
34 E. COLORADO ST.
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YOUR COLLEGE
SPORTS SHOP
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WYNN MACE
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Phone: SYcamore 6-5954
504 EAST CALIFORNIA ST.
Pasadena, Calif.

CARL'S CALTECH BARBERS
5 GOOD BARBERS-APPOINTMENTS IF DESIRED
ON CALIFORNIA NEAR LAKE

JOHN'S
BICYCLE SHOP
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42 North Fair Oaks Ave.
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Telephone SYcamore 2-4763

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BY canyon 3-6704

SPECIAL
All Wool T Shirts
$2.95

Fine All-Wool Jacquard Weave in soft
lightweight yarns - blue, blue, green
or blue
Sizes Small - Medium - Large

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I at least twice in every quarter.

Beaten Beaver Frosh and Noel Reed were responsible. Ciliano and z a, the angle which put him out for another quarter, when he twisted an a ncome and Fullback Dean for some rugged line play on the remaining of the game.

touchdowns, seven from runs and no defeats.

win s and no defeats.

scored on another pass, which made for some rugged line play on the remaining of the game.

Bevo late al from the Tech seven.

It may not look like it but Chuck Funk gets some exercise.

Came ls. Discover why, with smokers ashQ 1'011.

Another record that stands out is the game's most spectacular play came in the last quarter when quarterback Bobby Funk.

Thursday, November 20, 1947

THE CALIFORNIA TECH

Page 5


THEIR STUFF

as Reserve Lack Tells Again

Redlands Edges Tech, 20-13

Beavers To Try To Dam Waves Saturday Night

The Beaver eleven pistol off its 47 schedule against the Pep- perdine Waves Saturday evening at the Ingleside High School field. (Blintz Field)

Coach Anderson and his boys aren't planning on knocking the Waves off their lofty, undefeated, fifteen-game perch, but they could give the Sun Bowl as-plants a good battle.

Waves-Monac

The Pope probably remembers the first half of last year's game, however, when the Beavers knocked Mr. and his friends around for the whole first half before having their morale shattered by an unlucky break, and if the Waves come up, they're in for another maul. While the Tech record is not good, this is a better offense team than last year's and might repeat last year's score.

Coach Anderson is letting the wounded heal this week, with no hard scrimmages on tap. The Tech will be on the road against their last three games, although triple-threat Jerry Twine.

(Continued on Page 6)

Fleming Beats Challengers in Discobolus Tennis Play

Just seven days ago, those respec- tive teams from the Fleming gym scored a win which kept the struggling discobolus on the Discobolus now resting on the Big Red margin.

Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers. Five sets in the Blacker machine attempted to control the mower-against-rows bounce throwers.

MAYBE you've heard other good ads of this tune— but that was before Joe Mooney said it. His record is a standout. Another record that stands out is the record of Camel cigarettes. More men and women are smoking Camels than ever before.

Here's another great record! More people are smoking CAMELs than ever before

I know from experience CAMELs suit me best!

[Ad for Camel cigarettes]

[Ad for Camel cigarettes]
**The California Tech**

**Thursday, November 20, 1947**

**Ricketts, Fleming Combine To Throw "Drunkard" Party**

Tonight morrow about 35 couples from both Fleming and Ricketts will attend the old movie drama, "Drunkard," being shown in the Theatre Mar in Hollywood.

In line with the tradition of the drama, the audience is to be barefoot and stare at the hero. Refreshments (on the house) are served. A controlled evening is anticipated.

**HARRIERS GAIN**

(Continued from Page 4) a fine race to finish ninth. Other Techmen figuring in the same were Mike Sellen, 11th, and Larry Nobles, 15th.

**Tech's First Conference Win**

*Fresh in Preliminary Affair*

Neither the Tigers or Gauchos had freshman teams, so the Borderheads had the field to themselves in a two-team race preceding the major event.

Bob Collins turned in another good race to win in the time of 11:05. Constantly improving Rich Smyth finished in second spot, while Ray Borrowman came in third. The remainder of the composition was provided by Walt Edwards, Bill Kurland, Charlie Stevens, and Eldridge Newman.

**Tangle With Pomona Saturday**

The next hurdle on the harrier's schedule will be on Friday morning at 30 yards (trackmen's time) at Pomona. Beavers must meet the Pomona Sages in another three-mile event.

**CORSAGES**

**LAKE FLORISTS**

104 South Lake Avenue

CALL SYmore 54003

OPEN EVENTS

**REDLANDS EDGES TECH**

(Continued from Page 5)

for a Mar-Loy.

Redlands struck right back, gaining 24 yards in eight tries. Winner tossed to Flowers from 26 yards out for the score.

The Bulldogs surged ahead in the third quarter by a 49-yard drive after a 49-yard punt return. Lloyd cracked tackle from the two after-gasps had again set the stage.

But the Devils weren't through.

They took the kickoff and went all the way, with Chaffin hitting Bill Muehlberger on the goal line for the score from 14 yards. The Techmen had rolled 75 yards on the drive, and one run set this one up.

The Bulldogs drove back at once but were halted. When the Bravo offense logged down, however, and Redlands took the ball the second time, they made good. Some real razzle-dazzle gave the Dogs a first down inside the four; the Beavers stopped two time plunges, but Clowser crashed them up with a flat pass to Flase.

Bob Funk's signal calling and defensive play were something to behold. Bill Muehlberger played his best game this year. When he dropped a play (which happened often), it was 'kay. But the man who has a whole season well, if it can get over its injuries, Pepperdine will have a contest some Saturday.

**BEAVERS VS. WAVES**

(Continued from Page 5)

The Vomink is okay again and will be in the line-up. With the return of this Mule, Muehlberger to good offensive form, Andy Clowser should be able to throw two good offensive backfields at the Waves.

**BUSY LEAN**

It needs hardly be added that Darvin Horn is again leading college_sorted throughout the nation, but perhaps a few comparative scores are in order. Read "unaided, well, don't weigh yet:"

**Pepperdine**

21 Redlands 6

26 Calpers 6

12 Whittier 0

**Calpers**

6 Whittier 6

46 Cal Poly 0

26 Cal Poly 0

**Calpers**

6 Cal Poly 0

Last week the Waves counted on Humboldt State. The Peppergame was a close season and the score ended 0-0, reflecting that as does the Tech-Poly score. It is doubtful which of Mustangs would stop the Fow oil...