The Caltech Band, which gives such a good account of itself in producing large amounts of noise, has been scheduled to perform at a student-sponsored concert on Friday evening, at 7:30 p.m. in the Pasadena Armory, which will be a hand-produced concert that uses the outside bands. The band will also be featured in the weekly "Caltech on the Campus" radio program, which airs on Tuesday evenings at 7:30 p.m.

Caggers Face Redlands Friday Night

BEAVER SOARS

The Caggers, a group of student musicians, will face the Redlands University band in a friendly competition on Friday night. The game is scheduled to start at 8:00 p.m., and will be held at the College of the Canyons in Santa Clarita. The Caggers have been practicing for weeks and are confident of a victory. The Redlands band, on the other hand, has been struggling and is looking for their first win of the season.

Politics, Culture, and Set for "Y" Forum

Next Monday's "Y" Forum will feature Martin Hall, noted journalist and author, to discuss the current political and cultural climate in the United States. The forum will be held Monday evening at 7:30 in room 120 of the Student Union.

Cultural Forum

Our next "Y" Forum, on Wednesday, March 20, will feature an interview with Dr. Martin Hall, a noted journalist and author. The forum will be held in the Student Union at 7:30 p.m.

Fireside Program Enters Second Term

The Fireside Program, a popular student activity, has entered its second term this year. The program, which meets every Wednesday at 7:30 p.m. in the Student Union, features a variety of speakers and topics.

Fireside Program Planned

Scheduled soon are Fireside speakers from the departments of English, History, and Economics. The program features a range of topics, from literature to current events.


**The California Tech**

Published every Thursday during the college year except during examination periods.

**CALIFORNIA INSTITUTE OF TECHNOLOGY**

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**EPIPHENES**

A few words in regard to Epi-
phenes. The term is, of course
fully as such in the Epi-
phenes. The term is used for the
phenomenon. It is a term that has been used in scientific
work, and it is a term that has been used in this manner in the
work of the California Institute of Technology. The term is
used to designate the phenomenon of the California Institute of
Technology.

**New Comedy at Playa Plaza**

The Board of Directors began its
third and final portion of its
sessions last Thursday evening.

The board was attended—most
of it, but was not to be mentioned
in this earth-shaking and note-
worthy column. Last week it
takes up any vacant space in our
newspaper.

**On the Move**

The Army's not very big or
very warm, but if enough peo-
ple are in these homes, enough
that will have enough power
up so the people can participate with
them getting from the
support. The Army
or other
EPIPHENES

just to sit on the bench... in
case, our support and
mine for their loyalty to the
game and the game, even
as much as the regulars.

**Frontiers**

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**Your Campus** by John Whitelies

Cosmic Rays

The cosmic ray research on cosmic rays is a challenging task for scientists. One of the main challenges is understanding the origin of these particles. Scientists have proposed several theories to explain the nature of cosmic rays. One of the most popular theories suggests that cosmic rays are produced in the outer regions of our galaxy, such as the vicinity of black holes. This theory is based on the observation that the energy and momentum of cosmic rays are consistent with the expected properties of such emissions. However, the exact mechanism and origin of cosmic rays are still under investigation.

Andersson-Chadwich Clouds

Another theory suggests that cosmic rays are produced in the vicinity of neutron stars and black holes. This theory is based on the observation that the energy and momentum of cosmic rays are consistent with the expected properties of these emissions. However, the exact mechanism and origin of cosmic rays are still under investigation.

**Cosmic Spectrum**

Dr. H. H. Hopkins investigates the cosmic ray spectrum, trying to understand the properties of cosmic rays at different energies. Another phase of the research consists of studying the properties of cosmic rays at different energies in photographic emulsions. It is a major task to understand the cosmic ray spectrum and its properties.

**Flying Saucers**

One of the most exciting developments in the field of flying saucers is the ongoing investigation of the so-called "flying saucer" phenomena. Scientists have been exploring the possibility of extraterrestrial life and its impact on our understanding of the universe. The research has been ongoing for several years, and it has led to a better understanding of the nature of these mysterious objects.

**Sorah E. Allen**

So far, we have explored the basics of cosmic ray research and understood the challenges and potential breakthroughs. However, the exact mechanism and origin of cosmic rays are still under investigation, and the research continues to be a fascinating and exciting field of study.
Pepperdine Basketballgers
Down Fighting Tech Cagers
Talhin' It Over

Goal....

State varsity second team as foul. Stanford second quad.

Harris, the strong Olympic men were selected for the Morkie and Dale University of California placed vic and Dick Hichalk's.

dominated the college All-

01

On wrong 'Vith shooting the peasant a bucket of also placed for violation 

second half.

Page 4

m O l'e

A fter reading the paper, are a re a

The new club is screaming that UC should cut out the money lugs and score up a little talents. That's just the stuff that make the public realize what little angles run along the computer

"Cat the Goal!"

Here's the Goal's plan on what's wrong with collegiate athletes-It's too damn common. But there are plenty of bright young learning' being picked up couple hundred per an from their extracurricular activities. As a result, the guys who get their hands behind the goals in ignorance that they deserve a small part of the game. But there should be a strict set of rules which only college groups to which would prove a certain amount of club plan, board, tuition and books. This plan was place fees for violations right enough that it would re-

automatically

all of this showing and struggling about football is going...It's all an old act the old one is re-acting being a real life to really kill intercollegiate with little groups of sports fans that like the sports editors of the "OAK KNOLL CLEANERS and TAILORS"

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THREE-DAY CLEANING SERVICE

FIVE-DAY CLEANING SERVICE

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(4 Doors East of Lakewood)
SY6om 3704

"Vanguard once again displays its vocal versatility—backed by the Moon Maid. You'll like this record—so lead an

Hot weather brings a turn out for the baseball game if you're interested in that type of thing. You see the Red Beavers at Friday night at the North Pole

Tally no. 0

Tech Man Places
On All-State Team

Although the San Francisco

Olympic Club has a Tech polo team, according to the sections Charles Wallace, Spartan writer, and the newsmen represented in the person of Bill Hurley were back. The Winged "O" team placed fourth on the first list. Sections included Woody Wood, Joe Peters, Dick Richards, and Dale Whetber on the first list.

The Indians dominated the second section. In the fourth, four Stanford men placed second and C alf Argues rounds out the team with member. Members of the San Jose State varsity selected the three members that the team picked from the strong Olympic Club team. The selections:

First team: Goal — Bill Person — San Jose State Back — Popovich — San Jose State

Second team: Goal — Beek — Stanford Back — Popovich — San Jose State

"Anonymous SAILING, SAILING—The boats above are participating in the recent Intercollegiate Sailing Championships held at the Newport Yacht Club, in which Tech placed fifth. Note the Tech-manned craft closing the gap on the lead boat.

Caltech Sailors
Race at Newport

Local athlete memberships were admitted to new fields in Tech entered the Intercollegiate Sailing Championships held at the Newport Yacht Club during the Christmas vacation.

This event is an annual affair sponsored by the Pacific Coast Intercollegiate Yachting Association and this year's competition included entrants from 14 Pacific Coast schools.

Bluford, defending champions. were defeated by San Diego State College. Caltech's showing constituted an improvement over last year at this time by placing fifth out of fourteen entries, winning over many experienced teams as U. of Cal. Berkeley, where there exists the strongest of which a fleet of collegiate-owned boats.

Caltech took first place in the annual regatta of this series, held three years ago. The next race was explained by Don Bayne of Dolby House and June C. Milt Cotton of Bucker. Plan is in progress for formal organization of the campus sailing interest in the near future and it is hoped that this regiment will be arrange with all the collegiate sailing interest in the Los Angeles area.

The regatta this year will also be the recital of the Fresh team. Efforts are now being made to sign up all the seniors. The intercollegiate all-fresh prospects are invited to work with the Vinicky.

Tech Skiers Second In
New Ski League Meet

Last Saturday the Tech Ski team raced for the first time this year, competing against UCLA and Muir College. The race was the first of a series sponsored by the newly organized Southern California Intercollegiate Ski Union. This Union was formed primarily to encourage ski racing in Southern California schools and to date has member schools, the strongest of which are UCLA, USC, Caltech and Redlands.

Because of lack of good snow on the giant slalom was canceled. The men consisted of two runs of slalom, the first set by Wolf

It's not a dam right week, as this time Thursday night, where there existed the same amount of cash plus vel's, but Joy

A guarantee that he was going to write something interesting, rush down the hall with excitement, rush down the hall to get what this ex-Sage keeps in his shoulder bag. Without

East California

Of Shoulder's, without

Prep teams.

let the

Barnes Tie

The second half was a different story, however. The barefoot Spanier over the previous night had undererved. He has taken a lot of attention away from the players, while the Waves, who had come to the Waldorf to save the previous night's campaign, found itself outdistanced, 24 to 10, during the next 10 minutes, and as they left the floor at half time they trailed, 26 to 29.

...the game nailed Beavers 14 to 1, bringing the final count to 60 to 6, a final score which does not oc-

certainly show the closeness of the battle.

Pace Elgin Selfman

Paul Selfman poured several baskets through the loops during single free-throw before finally putting up a free shot. He made all five points for the high man for the evening. No error was made when it came to the second half.

Varsity, Frosh Baseball Begins

In spring some men's favorite sport begins. It doesn't forget to turn out for the baseball game if you're interested in that type of thing. You see the Red Beavers at Friday night at the North Pole.

1948/50 and '51. A Pac Ten which is the top ten were

Caltech

The next race is scheduled for January 31 with Tech as host. Competing will be FCC and PCC. On February 9 Tech meets Muir again and PCC. On April 5 and 6 eight teams were met at San Jose to compete for the K.L.A.S.S. trophy.

Tech times:

Burrara 70.0

Blair 80.0

Burlows 89.0

Price 93.3

Muir 100.0

Turner 139.9

Rental's - Repairs - TOGS

HOLIDAY HOUSE

Lake and Colorado

SY2omere 7680

Open Friday Evenings Till 8 P.M.
The Occidental Tigertails rudely spoiled any designs the Caltech Frosh had on occupying the Freshman League lead emphatically byeshellakingthe Beavers 47-29, last Friday night.

Playing the entire game with a double lead which they quickly obtained in the opening minutes of play, the Oxy boys were never threatened. After Ray chucked up an 18-foo1, Beavers, front formcr, grabbed 4 quick points for the Frosh with a long court follow on, followed by a quick shot. While the Tigers were pulling four baskets through the hoop, Fresh center Thorle Butler made a free throw to put the ball in the Oxy game, while making three buckets, and then made a second.

The succeeding evening saw the Poppoline Frosh easily hand a 70-21 defeat to the baby Beavers. For a moment it appeared that the Frosh might be threatened by the Oxy bunch but anew issue as the Frosh tied the game at 27-27. The next day the Frosh were on the road again but this time the Beavers would have the last word as the game ended 57-54.League Tilt

The Interhouse Bowling League resumed play this week at the Passaden Bowling Courts. Thursday night's game saw the chac of the Four Student Houses and Throop Club. The matches are played every Monday after 4 p.m.

At the present the Frosh No. 1 leading the league with 46-22, but the Tigers are just a step behind as follows: in first place, only one point behind the leader, Ricketts No. 1 and Throop No. 2 are tied for third with 46-12, followed by six defeats.

The league is based upon a handicap system. Par of the difference between each player's handicap and the handicap adjusted after the results of each match. Each team will bowl every other week. The winning teams from the same house will engage each other.

In weekly competition each team ranks overall for the entire season in teams of four. The winning team in each line of bowling will receive a trophy for his mate's efforts. The team scoring the most points in each of the six series of games to make the total of points, the team winning.

FROSH CASABLANA LOSeto TIGERCUB Point

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921 East Colorado Street

WE ARE READY FOR
SPRING SPORTS
BASEBALL — TRACK — TENNIS
CHAMBERLAIN ATHLETIC CO.

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