

Caltech Teams to Attend Speech Events Tournament

Tech Speakers to Include Bernard Rudin, Leo Breiman Ulrich Merten, Ray Brow, John Rogers, George Brown

Caltech speakers will exercise their vocal cords this Saturday at a Speech Events Tournament on the UCLA campus. The tournament, co-sponsored by Caltech and UCLA, will feature discussion groups and extemporaneous speeches on such current world and national problems as American rights and Civil Liberties and European affairs.

Caltech speakers will be Bernard Rudin, Leo Breiman, Ulrich Merton, Ray Brow, John Rogers, George Brown, Ralph Stone, Ollie Gardiner, and others of the speech squad.

Valley of Decision
Rudin will enter the oration that won him second prize at the Pepperdine Tournament: "The Valley of Decision," about the TVA. Rudin and Brown will also try to retain the first places won at the College of Pacific in Extemporaneous and Impromptu speaking.

The UCLA Tourney forms the second part of the Annual Caltech-UCLA Speech Events Tournament. The first part was held at Caltech two weeks ago and featured debating.

Future Events
Other contests programmed for the speech squad include a tournament at Bakersfield College in which Dr. John Schutz, Caltech debate coach, will direct senior division debating; the Western States Tourney, to be held at Redlands this March; and a series of Oxy assembly debates to be held there the last of February.

Breiman Wins
Bringing home new laurels for the Tech Speechers was Leo Breiman, who was recently awarded third place cup in the Los Angeles County March of Dimes Oratory Contest. He spoke on the life of Franklin D. Roosevelt.

Boller To Speak on Private Consulting

What promises to be one of the most interesting ASME meetings of the year will be held at 11 a.m. next Monday, Feb. 14 in 206 ME, when Harry Boller, of Boller and Chiven Engineers, will speak about his experience and problems in operating a private engineering concern. A Tech alumnus of '38, Mr. Boller has had considerable experience since graduation, having worked for C. F. Braun Co. and Byron Jackson Co. After serving as Chief Design Engineer for the Hydraulics Lab on Campus, he established his present business in partnership with Mr. Chivens as a private development engineering concern, which since its formation in 1945, has done a variety of interesting jobs on meters, gauges, and recording apparatus of all kinds.

This will be an excellent opportunity for all those who may go into business for themselves some day to learn the steps taken by Mr. Boller, as well as to get an idea of some of the problems encountered.

A few minutes will be required at the beginning of the period for the taking of the Big T picture, so be there promptly.

Campus Calendar

- WEDNESDAY, FEBRUARY 10—**
12:00 Y Upperclass luncheon
12:15 Throop Club meeting
7:30 Dancing Class
- FRIDAY, FEBRUARY 11—**
11:00 Nominations Assembly
6:45 Basketball, Caltech Frosh vs. Redlands
8:15 Basketball, Caltech vs. Redlands
- SATURDAY, FEBRUARY 12—**
9:00 Ricketts-Throop Valentine Semi-Formal
8:30 Blacker-Fleming Barn Dance
7:00 Dabney Dinner and Dance
- SUNDAY, FEBRUARY 13—**
7:30 Caltech Musicale, Dabney Hall Lounge
- MONDAY, FEBRUARY 14—**
4:00 Math Club meeting, 201 Bridge.
4:20 Interhouse Bowling
- TUESDAY, FEBRUARY 15—**
12:00 Y Frosh luncheon
7:30 Band Practice, Culbertson
- WEDNESDAY, FEBRUARY 16—**
4:30 Alumni Placement Talks, Dabney Hall Lounge
7:30 Fencing, Dabney Dining Hall
7:30 Orchestra, Culbertson
9:00 Glee Club, Culbertson

CE's Encouraged By Speakers At ASCE Meet

The Caltech student chapter of the American Society of Civil Engineers was honored by the presence of two distinguished speakers at its third meeting of the term held last Monday. The meeting was opened by the president of the chapter, Chuck Forster, who introduced Dean Franklin Thomas. Dean Thomas gave a brief but interesting discussion of his impressions of the recent National Convention of the Society in New York at which he was accorded the honor of election to the presidency of the Society.

Construction Opportunities
Professor Bobisch then introduced the second speaker, Mr. Clifford Pehl, of the Bechtel Corporation, who spoke on the merits of, and opportunities in, large scale construction for students who plan to go into the field of civil engineering.

Both speakers said much that is encouraging to the students in the civil engineering option. Dean Thomas pointed out that statistics show that the increase in numbers of students choosing the civil engineering option has by no means paralleled that of other options, while the opportunities in the field have shown

Boxers, Wrestlers Seen at Y Smoker

By Ulrich Merten
Under the guiding hand of M. C. "Harv" Eagelson, the Y's 1949 Smoker got underway last Monday night in Culbertson Hall. Promoter Dan Markoff presented a varied card of boxers, wrestlers, and trampoline artists for the amusement of the assembled Techmen.

First Event
The first event of the evening was a three round boxing match between Mal Hickey and Neal Hurley. Hickey, the aggressor all the way, took the decision handed down by judges John Schutz, Paul Eaton, and "Doc" Gevurtz. The match was marked by steady pounding by Hickey, which Hurley's occasional spurts could not overcome. In the second round, Hurley was on the ropes once. But Hurley's rights kept him in the fight right up to the final bell.

Out three, boxing again, was a match between Fred Smith and Ed Welch which ended in a double knock down and was even more of a farce than originally intended.

The gloves again saw service in the last fight of the show, which saw Hal Martin and Jack Ottestad fight a three round battle which was tough and fast all the way. Both boys concentrated on jabs to their opponent's head, the only telling body blows coming in a series of clinches in the second round. Ottestad got the decision when the final gong stopped a still going bout.

Trampoline Act
The last event of the evening was a trampoline act, which featured a troupe composed of Peg and Pat Johnson, both 14, and Richard and Robert Brown, 10 and 8 years old, respectively. The youngsters, coached by Jack Brown, put on an impressive exhibition of somersaults, twists, and drops onto the bouncing canvas.

Boring Talk Set On Job Seeking

By Dick King

The next to last Alumni-Beaver lecture will be held this next Wednesday afternoon when Mr. M. M. Boring, of the General Electric Company, will speak on "The Problem of Looking For a Job."

For the first time since the start of the series, the place has been changed. Dabney Lounge has been forsaken in favor of 155 Arms. The time remains the same, however, 4:30 afternoon time.

Everyone, especially seniors, should benefit from Mr. Boring's experience, since he has been concerned with the selection of technical graduates for nearly 30 years. Also, he has kept in touch with most of the selected men during their training periods, giving him additional experience on personnel selection. It is no wonder that he is considered one of the best men in the industry in this field. He is at present Manager of the Technical Personnel Division of General Electric Company at Schenectady, New York, and also serves on the executive staff.

SAE Field Trip

The student branch of the Society of Automotive Engineers is planning a field trip to the Mercury-Lincoln automobile assembly plant in Los Angeles tomorrow afternoon, Friday, February 11. Anyone who would like to visit this plant may attend. Meet in front of ME building at 1 p.m.

McKinney Prize Reading Revealed

"The American Way of Life—A.D. 2000", is the subject for the 1949 McKinney Prize Contest in English. Prizes of \$75 and \$50 and books will be awarded to the members of the Junior and Senior classes whose essays win.

Each candidate will write an essay of about 1200 words on the subject, drawing ideas for his essay from the following required reading: **The New Atlantis**, by Francis Bacon; **Look-Backward**, by Edward Bellamy; **Back to Methuselah**, by G. B. Shaw; and **Brave New World**, by Aldous Huxley.

The essays, which must be submitted to Prof. MacMinn, 212 Dabney Hall, by Monday, April 18, will be judged by the English department.

The four men who have written the best essays will give an oral presentation before a group of community judges at an assembly, to be held early in May.

For further details see Prof. MacMinn, 212 Dabney Hall.

Tech to Present Bach Cantata

By Victor van Lint

The time has come to see whether it is possible to perform serious music of major proportions by an amateur group such as the Caltech Orchestra and Glee Club. The latter has been working for two weeks on such a work, namely the Bach cantata, **Christ Lag in Todesbanden** (Christ Lay in Death's Dark Prison). A question to any glee club member will elicit the information that it is a lot of hard work. The rehearsals have been concentrated efforts to work out, part by part, the difficult passages. But all singers agree that the result has been well worth while.

Female Voices
Those familiar with the work will recognize the need of some singers not now in the glee club, namely contraltos and sopranos. Since the first tenors already are no more than souped baritones, this need will have to be supplied by the real possessors of such voices. Great effort is now being expended toward the goal of annexing such a group to the glee club temporarily. However it is quite probable that the women will be much better trained in

Tomorrow Assembly to See ASCIT Candidates Nominated

Next Y Forum To Feature Talk By Dr. DuBridge

After a two weeks' intermission for midterms and the Y's first annual Smoker, the YMCA Forums will get under way again next Monday evening with a talk by Dr. L. A. DuBridge on "Educational Policy at Caltech".

Dr. DuBridge's topic is one which has long been a subject of bull sessions around the campus, and one which vitally concerns all students at Tech. What do you think — are we wasting time with our humanities, should we have more of them, should engineers take frosh chemistry . . . ? All those who have questions about the educational policy and curriculum at the Institute are urged to attend this forum and get the straight word on the subject.

Dr. DuBridge always presents us with a fine program, so if you want a good seat, be in 201 Bridge early on Monday night. As usual, the Forum will begin at 7:30 and end promptly at 9:00 o'clock.

Income Tax Help Offered at Caltech

For the benefit of Caltech students and faculty members who wish information or advice on income tax matters, a Deputy Collector of Internal Revenue will be on the campus on Monday, February 28, and Tuesday, March 1. The Deputy will be located in the lobby of Throop Hall, and will be prepared to help Institute Staff, Faculty, and Student Body personnel with the preparation of their 1948 Federal Income Tax returns.

Helps Taxpayers

In spite of a shortage of help in his office, Mr. Robert E. Andre, Division Chief of the Pasadena Office of the Collector of Internal Revenue, has been able to arrange this service on the two days specified. Caltech taxpayers have greatly benefited in past years from the opportunity to obtain income tax information right on the campus, and everyone needing income tax assistance the assistance the Deputy will be able to give them.

Nominations for Uncontested Offices to Remain Open for Week

Positions Open for Nine Directors, Head Yell Leader, "Big T," "Tech" Editors and Business Managers

Tomorrow at 11:00 the annual ASCIT Nominations Assembly will be held in Culbertson Hall, for the purpose of introducing the candidates in the ASCIT elections set for Thursday, February 24. Candidates will be announced for the offices of ASCIT President, Vice-President, Secretary, Treasurer, Publicity Manager, Athletic Manager, First and Second Repts, Rally Commissioner, Editors and Business Managers for the California Tech and the Big T, and a head Yell Leader. The first nine offices listed form the Board of Directors of the Corporation.

Conger Peace Prize Rules Announced

Rules for the Conger Peace Prize have been announced by Dr. John Schutz. The contest was established in 1912 by Reverend E. L. Conger for the promotion of world and industrial peace.

Fifty dollar first and twenty-five second dollar prizes will be offered for the best orations on these topics. Contestants will present their speeches before a student body assembly, to be held later this year.

Rules

Following are the rules for the contest: 1. Any regular student of the four undergraduate classes may enter; 2. Orations should be the original work of the students competing, without more than an hour's assistance from any faculty member; 3. The time of delivery should not exceed ten minutes; 4. Manuscripts are not to exceed 1200 words and should be memorized; 5. Manuscripts are to be presented to John A. Schutz, Dabney Hall by April 15, 1949.

Congress Activities Discussed by Y

The Caltech Y Radio Roundtable is looking forward to an interesting set of domestic affairs topics arising from the governmental programs being proposed before the new Congress. On Wednesday, Feb. 16, at 9:45 p.m. on station KPPC two or three speakers will discuss the Administration's proposals for a national health insurance program. The question of whether such a program is needed, how comprehensive it should be, its expense, and the views of organized medicine will be covered.

Future Topics

Future programs will probably include such questions as domestic spending, public housing, future valley authorities, and other such issues up for decision in Washington. The Roundtable will continue to do programs on foreign and local affairs topics. The most recent broadcast on Jan. 19 dealt with the Indonesian dispute, while the program before that was on local public transportation problems.

Speakers Needed

The Roundtable is still urgently in need of new speakers for its programs, especially among the lower classmen and Juniors. This radio activity deserves to be perpetuated at Tech and must have leaders in future years. These programs offer plenty of opportunity to develop quick thinking and good speaking ability.

All those interested in participation on programs should contact the Y office, Don Bratton in Ricketts, or Verne Smith or Frank Brady any noon in the Y lounge. Be sure to listen to the program on alternate Wednesday evenings at 9:45 p.m. on station KPPC, 1240 on your dial.

Nomination Procedure

Any nominations yet to be made before the assembly should be given to Stan Barnes, ASCIT President, or any member of the Board of Directors. Nominations can be made from the floor during the meeting, but it is desirable that the candidates be known before the assembly. The nominations for any office will be considered open until thirty seconds after the last nomination for that office. The nominations for this office are then considered closed unless there is only one candidate. In this case the nominations remain open for one week.

Campaigning

For one week following the Nominations Assembly there will be no official campaigning or public election activity on campus. At the end of this week the final list of nominees will be posted on the ASCIT bulletin board in

(Continued on Page 4)

Soaring and Gliding Club to Organize

Next Tuesday night at 7:30 p.m. in 155 Arms there will be a meeting of all those interested in the formation of a Soaring and Gliding Club here at Tech. At the meeting will be seen some fine color films such as those shown at the Assembly a week ago. But the real purpose of the get-together is to discuss ways and means and membership of the Club. Your ideas are needed in solving the last few but troublesome problems facing us.

If you have any interest whatsoever in this unexcelled sport, drop around Tuesday night. You are certainly welcome.

Erickson Elected Throop Club Head

A growing interest in Club activities was displayed by Throop Club men last Thursday, when Ralph Erickson was elected president for the coming year, in the heaviest balloting in several years. Walt Pfeiffer will be the Club's new vice-president, and Duane Neverman will keep a tight hold on the purse strings for the next year. The closest race was for the position of secretary, where Bob Cobb and Dick Weeks were even until the last few ballots pushed Bob ahead enough to take the election.

Gene Mooring, current president, and the present Club officers will continue until the end of the term when the new officers will be installed.

Interview Schedule

FEB. 15 AND 16—
WESTINGHOUSE ELECTRIC CORP., Los Angeles, Calif. Mr. E. W. Morris, Engineering Manager and Mr. W. G. Willson, L. A. Manager, interviewers. Seniors and Graduates in Electrical and Mechanical Engineering, and Industrial Design who are particularly interested in electronics, power, industrial design, research or sales. Training program of twelve months duration in the East, but placement thereafter may be any place in the U.S.A. Interview takes place in 309 Dabney Hall both days.

The California Tech

Published every Thursday during the college year except during examinations and holiday periods... California Institute of Technology 1201 East California Street, Pasadena, Cal.

Musical Masterpieces

KFAC 4-5 p.m. daily 2-5 p.m. Sunday Presented by the Slavick Jewelry Company THURSDAY, FEBRUARY 10 Concerto Grosso No. 3 in E Minor—Handel. Adolph Busch and Busch Chamber Players

Das Brauen

In a weekend stew with such Germanic institutions as Skiing and Bier-Trinken, it is only proper that we have an ach here and there.—Und so— Bier und Andere The Dabney-Ricketts-Fleming-Blacker-Throop-And-Everybody Barn Dance was a six-kegger success.

The Evening Concert

KFAC 8-10 p.m. Presented by the Southern California and Southern Counties Gas Companies THURSDAY, FEBRUARY 10, 1949 CIRO IN BABYLON—OVERTURE, by Rossini. Symphony Orchestra of Turin conducted by Ugo Tansini (8).

palled at the sight of a tremendous living avalanche tearing up the slopes. It was Rumer's nose playing snowplow. Once his gal got caught in some bushes — a likely story!—Rumer disappeared down the run in a whirl of powder.

Who Dealt This Mess

By Carl Fox It has been said that one of the greatest sources of unrealized wealth in the United States is the penalty double of overcalls at the level of one or two. Yet that source remains untapped by the majority of partnerships.

The Front Burner

We were hilariously entertained the other evening at the Biltmore Theater with Garson Kanin's comedy "Born Yesterday". It is well considered top in the modern theater. The play is what might be called an American "Pygmalion" —but of course there are the inevitable social and political implications.

WILSON'S RADIO & SOUND Specialists in Service 2 Blocks West of Campus Promise You: HONEST, EFFICIENT SERVICE

Voget & Cathey MEN'S CLOTHING FURNISHINGS Fridays till 9:30 p.m. 459 East Colorado Street Sy. 2-3871 - Pasadena 1

HAROLD O. GRONDAHL Representing NEW YORK LIFE INSURANCE COMPANY 234 E. Colorado St., Pasadena Phone SY. 2-7141

Smoke a LUCKY To feel your LEVEL best!



Luckies' fine tobacco puts you on the right level—the Lucky level—to feel your level best, do your level best. That's why it's important to remember that LUCKY STRIKE MEANS FINE TOBACCO—mild, ripe, light tobacco that makes a thoroughly enjoyable smoke.

Lilly Interhouse Trophy To Be Offered To Tech Skiers

Here is your chance to get into a ski meet, even if you have never tried it before. This race is the first of two races that decides which of the student houses or Throop Club can hold that prized trophy, The Lilly Interhouse Trophy, for the coming year. Last year, Ricketts House took this trophy quite easily, but the contest this year is expected to be a close one.

The date set for the first race is Sunday, February 20. The time and place to report for racing instructions is 10:30 at the Penguin (which is the warming hut at Snow Valley).

In case you haven't seen this treasured trophy, why not drop around to Ricketts Lounge some time. With the permission from a UCC you may even touch it! Notice especially the vorlage, and how relaxed The Beaver is as he is about to make a Ruade.

Improvement

Forgetting the physical features of the Beaver for a moment, let us consider its underlying significance. This trophy was presented to the Interhouse Committee on behalf of Mr. and Mrs. R. C. Lilly. The purpose of this presentation was to improve the general level of ability in the actual technique of skiing among the undergraduate students of Caltech.

SCIC STANDINGS

	W.	L.	Pct.
Whittier	5	0	1.000
Redlands	3	2	.600
Caltech	2	3	.400
Pomona	2	3	.400
Occidental	1	5	.167

**WHEN YOU ARE HUNGRY
WHEN YOU ARE THIRSTY
OR
WHEN YOU JUST
NEED RELAXATION
IT'S THE
SKIP INN**

Beer - Plate Lunches
1352 E. WALNUT
Open Till 2 A.M.

**JOHN'S
BICYCLE SHOP**

SINCE 1909

- BICYCLES
- TENNIS
- BADMINTON

42 North Fair Oaks Ave.
Pasadena
Telephone SYcamore 2-4767

Talkin' It Over With The Goon

Slipped my hip boots on the other day and visited J. Mason Anderson who was digging for clams on the mud flat out in Tournament Park. No longer does "Dean" Anderson squeeze your arm and hiss, "How much do you weigh son?". Now it's "I can make a ten flat sprinter out of you boy. Here, try these spikes on for size."

Rain, Rain

After reminding Andy that there were still a few basketball games left he allowed me to come up off the marks and we resumed our informal chat. These last few weeks of rain have really put the track boys in a bind. The drainage on the oval is very poor in many spots and they have not been able to put in the jumping pits yet.

Carnival

Andy should be given a lot of credit for the work he has done hustling up a full schedule of meets. This year we have a new relay carnival with Loyola, La Verne and CalPoly at Tech on the fifth of March. This will give the cindermen a chance to get actual competition before the big conference relays on the twelfth.

Bud Carroll, the only coach who builds champions instead of character, has just been presented with the longest snake-whip in California. Now Bud stands in the center of the infield and makes sure that the boys are moving at a reasonable speed. Our distance events seem the strongest now with Brown, Marshall, Barnes, Cobb, Edwards, (Continued on Page 4)

Beaver Sports

Shymen Edged by Poets As Saltman Collects 23 Points

Last Friday evening our Beaver Varsity made a game bid to topple the league-leading Whittier five, but they didn't have quite enough poop, ending up on the short end, 44 to 48. Hopes were high after the surprising Frosh showed an unbelievable amount of power in running away from the Poet Frosh, but a sorry two minute interval just before the end of the first half spelled defeat for the Orange and White.

Amnesia

After getting off to a slow start, the varsity showed the same brand of fight and heads-up basketball that they had a week ago against Oxy. With only 4 minutes left in the first half, Whittier had a 21 to 20 edge. Then our lads suffered what was an apparent loss of memory as regards basketball fundamentals and, 4 minutes later when the half ended, we were trailing by 10 points, 32 to 22.

At the start of the second half, the Poets quickly widened their lead to 13 points. Then, the Beavers took over and slowly but surely narrowed the lead right up until the final whistle. But, the lead was just a little too much to overcome.

Monty and The Goon

The whole squad played a fine game, but again Paul Saltman and Jay Montgomery must be singled out for their sterling performances. After getting off to a very slow start, the Goon again found his eye, and he really went to town in the scoring column, ending up with 23 points, high man for the evening. He showed considerably more fight and drive than Whittier's all-league

Reds, Blacker Men Shine As Bowling Race Tightens

Blacker and Fleming turned the tables last Monday in pin-topping at the Pasadena Bowling Courts by edging their rivals, thus tightening the race for the Goldworthy Trophy. The five Blacker wins, coupled with six Dabney losses, dropped the Darbs into fourth place behind the Blacker boys.

The best record for the afternoon, however, was gained by Fleming, the present cellar dwellers, with six wins. Ricketts increased its first place lead over Throop by winning four to the latter's three.

Present team standings:

House	Won	Lost	Pct.
Ricketts	71	33	.682
Throop	55	49	.524
Blacker	48	56	.462
Dabney	47	57	.452
Fleming	39	65	.375

Benton Hits

Bob Benton of Throop hit the pins for a 505 series which was tops for the day. Fellow Throoper John Kostelac followed with a 478 series, as John Holmes of Ricketts hit 472. High game of 198 was fired by Lowell Cockel of Throop.

Fleming Team No. 2 bowled 2090 for high team series, while Throop's Team No. 2 with a 729 gained top game honors.

center Bill Moore, who was the Poet high point man with 15 digits. Although his corner shots are pure murder, Moore never showed up too well all evening.

Scoring

Monty again turned in a swell defensive game in addition to follow up Saltman with 7 points. Cox, Butler, and Bowen with 4 each, and Bass with 2 rounded out the Tech scoring.

Whittier used a fast break all evening that was pretty potent. They were fast enough, also, to stop our fast break from functioning. They also work the ball around very quickly, but only now and then did they give evidence of being the team at the top of the league.

It's Redlands again this week. Some good support can possibly stop any 2 minute lapses such as we had last Friday, and we'll be able to take them again.

CALTECH BARBERS

on California Near Lake

Tech Battles For Second Place Spot

When Carl Shy and his cagers travel to Redlands this Friday night, they will need a win to maintain a tie for second place in the conference standings. In their last meeting, the Beavers upset the highly favored Bulldogs by a 53-40 win.

The Engineers will have to go all out to beat a revenge seeking Redlands five. But Tech should walk off the floor with a win after the final whistle. In their last three conference games the Beavers have been going great guns, knocking off Oxy and giving both Pomona and Whittier bad scares.

Schussing with the Shoose

The good skiing conditions continue, and a new storm is breaking at the time this article is being written. The hut was well filled this last weekend, this time with skiers, and to good advantage. All of the Snow Valley slopes have a fine pack, and each successive storm brings new powder. This is the first year that we have not had to worry about rocks and bare spots in the runs.

The sling lift broke down only one day out of two this weekend, to everyone's surprise, and so the Bowl was readily accessible. Except for a few moguls at the top of the bowl, it was a fine run; especially fine is the fact that it didn't ice up late in the afternoon. The result of all of this fine skiing is going to be, of course, a distinct dissatisfaction when the slopes at Snow Valley resume their former selves. Then, as in the past, it will be dodging, dodging, dodging, with intermittent prayers for just one more inch of snow.

Blom, Carus Speedy

The big Mt. Baldy giant slalom came off Sunday afternoon, with several of our team members competing. It was strictly an individual competition, with no team scoring. Of the Caltech racers, Jim Blom and Blouke Carus turned in times of 1 min. 17 sec. and 1 min. 18 sec. respectively, while the winner, Rolly Deering, turned in a time of 1 min. 2 sec. Snowballs Stanaway would have been right in there if he hadn't fallen and broken his glasses. He couldn't see the gates in order to finish the race.

There has been an apparent reluctance among the ski club members as of late to clean up the hut before they leave on Sunday. We wish that those who read this take heed. Various violent measures are being suggested by bothered persons to take care of violators. Let's see if we can't improve!!

Saltman, Kreutzberg
The two men to watch are Warren Kruetzberg and Paul Saltman. A duel between these two high scoring centers is certainly to develop during the course of the game. Probably Saltman has the edge in view of his better than 18 points per game scoring record. In the other departments both squads are about even, except for much greater height on the Tech team. This height beat the Bulldogs way back in January and is going to be a deciding factor tomorrow night.

Support Shymen

One thing the Shymen are going to need is a lot of support from the local fans. Let's have a big turnout to out shout that howling mob which is always in the Bulldog stands.

Frosh Game

In the preliminary Ed Preisler and his suddenly gone wild Frosh will be gunning to upset the flashy and undefeated Redlands Bullpups. Remember basketball at Redlands on Friday night; Frosh at 6:45, Varsity tip-off 8:15.

Redlands	Caltech
Rosenberger	F Bowen
Parker	F Bass
Kreutzberg	C Saltman
Stanley	G Cox
Waters	G Montgomery

Frosh Sports Roundup By Leon Michaelson

The Little Beavers caught fire. It'll be quite a while before the boys from Whittier forget Patapoff, Granger, Grey, and the rest of the Frosh basketball squad. It seems we remember a little grid-iron incident of last fall that called for revenge. It seems we remembered only too well. The Poet's gym scoreboard blared out through the smoke of the final gun: Caltech, 68, Whittier 53.

Patapoff Stars

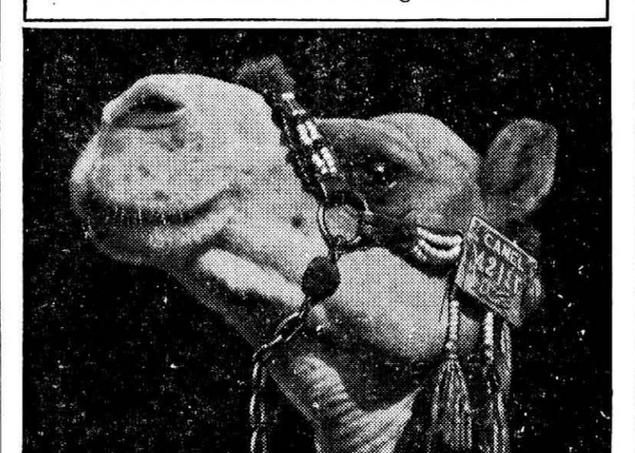
The local basketeers had a hard time finding the basket at first and trailed 31 to 27 at the half. But from then on it was Tech's game with Harry Patapoff leading the barrage with seventeen points in the second half to bring his game total to 25. Vance Granger played a magnificent game at center, sparking the Techmen's first half scoring with 11 points while boosting it to 19 for the evening. Norm Grey, in his first game at guard, cut loose for an inspiring 14 point total to help put the game on ice.

With regulars Don Tautz and Burt Snider sidelined with leg and ankle injuries respectively, the Baby Beavers travel to Redlands Friday. Last minute developments have given us reason to believe that the squad is doomed for more mishaps yet. We've heard that Grey is ailing from a lip injury received in the last game, Granger has contracted the flu, and Don Stewart has been (Continued on Page 4)

PASADENA BOWLING COURTS
970 East Colorado
Headquarters of Caltech Bowlers
Open 11 a.m. to 1 a.m. SY. 3-1341
Special Student Rate before 6 P.M.
except Saturday, Sunday, and Holidays
20c Per Line

Shirts SHIRTS SHIRTS
Sport Shirts of Distinction
by
Hollywood Sportogs
HEDRICK & MARKOFF
Agents
Dabney 11 & 12
Finest Quality Shirts
from \$4.95

J. Paul Sheedy* Switched to Wildroot Cream-Oil Because He Flunked The Finger-Nail Test



WHEN a camel's hair coat company refused Sheedy as a gift—he went all to pieces. It was a blow that'd break an ordinary camel's back—but not his! He remembered hearing about the Finger-Nail Test . . . tried it . . . and hot-footed for a bottle of Wildroot Cream-Oil. Now you wouldn't know the old boy! His hair has a snappy, well-groomed look. No more of that old dryness and loose, ugly dandruff! He's the hit of every caravan!

Even if you're not a camel—you, too, should be using non-alcoholic Wildroot Cream-Oil containing Lanolin. You needn't walk a mile for it—your nearest drug store has it in bottles and tubes. And your barber can give you a professional application. Get some today!

* of 327 Burroughs Dr., Snyder, N. Y.

Wildroot Company, Inc., Buffalo 11, N. Y.



Going Somewhere? Travel Refreshed



Ask for it either way . . . both trade-marks mean the same thing.

5¢

BOTTLED UNDER AUTHORITY OF THE COCA-COLA COMPANY BY
COCA-COLA BOTTLING CO. OF LOS ANGELES

© 1949, The Coca-Cola Company

Ice Skating
Daily 2:30 to 5, 7:45 to 10:45
Sat. & Sun. Morn. 10 to 12:30
Skates for Rent
Instructions
Pasadena Winter Gardens
171 South Arroyo Pkwy.
SY. 2-7151 RY. 1-6066

YOUR COLLEGE SPORTS SHOP
Headquarters for Sporting Goods
WYNN MACE
Tennis Shop
Phone SYcamore 6-5804
912 EAST CALIFORNIA ST.
Pasadena, Calif.

HOUSE JACKETS
Corduroy and Flannel
881 E. Colorado
Fowler & Schrader
Open Fri. & Sat. Nites
"Men's Distinctive Fashions"

Forrester to Discuss Combinatorial Algebra

"Combinatorial Algebras and Number Theory" is the topic which H. A. Forrester will present to the Caltech Math Club at their next meeting, Monday, February 14 at 4:00 P.M. in 201 Bridge.

All interested are invited to attend, with a special invitation to lower classmen. Refreshments will be served.

TOMORROW ASSEMBLY

(Continued from Page 1) lower Throop. Starting Monday, February 21st, the official campaigning will begin and continue until elections, which will be on Thursday the 24th. During this time there will be all of the pre-election activities on campus. The run-off elections will be the following Tuesday, March 1st.

Important Offices

The men who are elected will take office at the beginning of the third term, and hold it until the end of the second term next year. The men elected to these offices control student body affairs during this period, including social, athletic, and financial affairs. Considering the importance of these offices it is hoped everyone will take part in the nominations and elections. The Little T contains a description of the officers' duties.

Duties

Besides his ordinary duties the President is a member of the Board of Control, and the Vice-president is the Chairman of the Board of Control. The Treasurer must keep the financial records of the corporation which run into several thousand dollars, and the First Representative is Social Chairman of the ASCIT. These are a few points to keep in mind when considering the nominees. Remember, it is very much to your interest that you be represented at this meeting.

Classified Ads

FOR SALE—BC3490 AC converted, with supply and original dynamotor, \$55. Walt Mudgett, Fleming 8, SY 2-9718.

Oak Knoll
Cleaners

THREE DAY

Cleaning Service

FOUR-DAY LAUNDRY

Rain or shine we're **ALWAYS on time.**

Special Features

Peraseptic, cleaning, mothproofing service, tailoring and repairing.

Pressing While You Wait

"Service With a Smile"

902 East California Street

(4 Doors East of Lake)

SY. 3-6704

CAMPUS BREWINS

(Continued from Page 2) away from his Browning ingenu, and tore down the hill. Half way down, he rammed a bunny trying to pick herself out of the snow. There was a huge somersault, and twenty feet later two people were picking themselves up out of the snow. The original damsel in distress got tired of waiting and went home.

Der Schluss

Abell hastening back from Snow Valley for Drama rehearsal — though we can't figure out why he would hasten from that chic date—obtained a ticket in Arcadia.

Our word is that this Sunday evening rehearsals are reasonably exciting. This feminine lead is the same wondrous fem that electrified Oxy at the Tech Talent Show. For details and a sad tale, see Boicourt, Stanaway, Price, or Houser.

CE'S ENCOURAGED

(Continued from Page 1) a parallel increase. Mr. Pehl went on to point out the diversity of these opportunities and the possibility of their satisfying the desires of students for widely varying types of work.

Next Monday, the Consolidated Engineering Societies will hold a meeting sponsored by the ASCE, at which Colonel Walsh of the Los Angeles District Office of the Corps of Engineers will speak on the work being done and the opportunities available for engineers on Corps projects. The meeting is to be held in Room 206 in the Mechanical Engineering building and should be

WHO DEALT THIS MESS

(Continued from Page 2) plore the possibilities. Otherwise you must pass and surely lose points, compared to what was possible. For, consider the range of hands that your partner might hold. Anything from

S A K 6 5 2
H A 7 4 3
D Q 6 4
C 9
to
S A K 6 5 2
H Q J 10 6 2
D —
C K 9 4

In the first case you can scarcely avoid setting Two Diamonds and it may be set three or four while there is no ghost of a contract for you. But in the second case you are missing a cold game and possible slam in Hearts.

So, agree to treat low level doubles as a proposal rather than a command. Remember that the double is a howling failure unless it garners more points

TALKIN' IT OVER

(Continued from Page 3) and some of the other cross-country boys.

Dwight Schroeder should again lead the pack in the lows, and this year will surprise a lot of the other timber toppers in the highs. There is one boy who is really conscientious. Why don't some of you other guys take a hint?

Should be a pretty fair ball game out Redlands way Friday night. It's too bad that Coach Shy is on a bread and milk diet. It was bad enough with just grey hairs.

of universal interest to engineering students.

than you could possibly have made in your own contract. Then, when you double, it will be understood as a message that, at the moment, it seems to you that your best bet seems to lie in setting them. Of course you still reserve the right to change your mind later.

There is a simple set of rules available for your partner in deciding whether or not to leave the double in. They are based on his holding in the opponents' trump suit. With three or more, leave it in, even with a weak opening bid. With two, leave it in, holding three or more honor tricks. With a singleton, take it out unless holding at least three and one-half honor tricks. And with a void, take out the double regardless of honor count.

As another example of a good low level double by an enterprising East, and showing the complete hand:

N
S Q 9 2
H 9 5 4
D A K 8 7 6
C A Q
W
S A K 7 6 4
H K J 3
D Q 9 3
C 8 5
E
S J 8
H A 10 7
D J 5 2
C K J 9 6 4
S
S 10 5 3
H Q 8 6 2
D 10 4
C 10 7 3 2

West dealer:
N E S
W 15 P Dbl. P
P P P

One point to remember is that a low level double practically precludes a fit in partner's bid suit for, with a fit, you have places of your own to go. In addition, it is not to be expected that you will then be able to take many defensive tricks in that suit.

FROSH SPORTS ROUNDUP

(Continued from Page 3) treated at Huntington Hospital for a cut on the head received Monday night.

But Coach Ed Preisler and his five will be there Friday night, timing for revenge of the 59-32

defeat handed them in the early part of the season.

"There seems to be a lot of girls who don't want to get married."

"Why do you say that?"
"I know, I've asked them."

FP 9-13-48A

College Newspapers

PO 3677 Ad 122

like cream hair tonics?

Here's the cream of them all!



contains Viratol*

gives your hair that "just-combed" look—all day long!

NEW FORMULA WITH VIRATOL® works wonders in the looks of your hair. It looks natural...it feels natural...and it stays in place! Try a bottle.

new Vaseline cream hair tonic

*This special compound gives lustre... keeps hair in place without stiffness.

Always Buy CHESTERFIELD

"In my home, guests always insist on Chesterfields because they're so MILD"

Joan Fontaine

CO-STARRING WITH JAMES STEWART IN "YOU GOTTA STAY HAPPY" A WILLIAM DOZIER PRESENTATION A RAMPART PRODUCTION A UNIVERSAL-INTERNATIONAL RELEASE

MAKE YOURS THE MILD CIGARETTE

MORE COLLEGE STUDENTS SMOKE CHESTERFIELDS THAN ANY OTHER CIGARETTE BY LATEST NATIONAL SURVEY

The TOP MEN of AMERICA'S SPORTS smoke CHESTERFIELD

LARRY JANSEN says... "It's Chesterfields for me, they're really MILD and have that clean, fresh, satisfying taste... It's MY cigarette"

