

Commencement Week Activities for Seniors

by Al Jackson

Seniors, be brave. There is yet hope. Eight more days and then YOUR week. June 4 to June 8 will be filled with activities for you, your parents, and friends—while the lowly peons sweat over their finals.

The most important day of your week is of course commencement day, Friday, June 8. The Honorable Thomas K. Finletter, Secretary of the Air Force, will deliver the commencement address.

Class Day

Thursday is senior class day, when there will be activities going on throughout the day. Seniors are urged to invite their parents and friends for an interesting day at Caltech.

A senior breakfast is scheduled for 8:45 a.m. at the Athenaeum. Dr. Richard Jahns will be the speaker. This is the one event of the day that is reserved exclusively for the class of '51. Guests will be welcome at the remainder of the days events.

Two demonstration lectures are scheduled—one at 10:30 a.m. and the other 1:00 p.m. Both should be very interesting—Rockets and Guided Missiles by Mr. Jack Vogel, and Smog and Its Effects by Dr. Arie Jan Haagen-Smit.

Dean Jones Speaks

At 3:00 p.m., class day ceremonies begin. The principal address may prove very enlightening. The speaker is Dean L. Winchester Jones. Who is the senior who hasn't said to himself, "Perhaps Dean Jones did make a mistake."

The President's Tea will be held at 4:00 p.m. on the Athenaeum lawn. Seniors and their guests are cordially invited.

Prom Climaxes Day

The Junior-Senior Prom at the Oakmont Country Club will climax the day's events.

Activities are scheduled for Tuesday and Wednesday also. Tuesday, a Faculty-Senior softball game will get underway at 3:30 p.m. Wednesday, an alumni banquet will be held at 6:00 p.m. at the Los Angeles Athletic club. The speaker will be Mr. Gordon P. Larson, Director of the L.A. County air pollution control district.

Senior Week Program

Tuesday, June 5—Faculty-Senior Softball Game, Tournament Park—3:30 p.m.
Wednesday, June 6—Alumni Banquet
Time: Social hour—6:00 p.m. Dinner—6:30 p.m.

Place: L.A. Athletic Club.

Speaker: Mr. Gordon P. Larson, Director of L.A. County air pollution control district.

Subject: Smog—The Talk of the Town.

Dinner: Free to seniors who have paid their Alumni dues. Other seniors and alumni—\$3.00.

Reservations: Alumni office not later than June 1.

Thursday, June 7—Senior Class Day

8:45 a.m.—Senior Breakfast at Athenaeum. Dr. Richard Jahns, Speaker.

10:30 a.m.—Rockets and Guided Missiles, 155 Arms. A film and lecture by Mr. Jack Vogel.

1:00 p.m.—Smog and Its Effect, 155 Arms. A lecture by Dr. Arie Jan Haagen-Smit.

3:00 p.m.—Class Day Ceremonies. Dabney Hall. Dean L. Winchester Jones, speaker.

4:00 p.m.—President's tea. Athenaeum lawn.

9:00 p.m.—Junior-Senior Prom. Oakmont Country Club.

Friday, June 8—Commencement

2:30 p.m.—Pick up caps and gowns, lower Fleming.

3:50 p.m.—Line up under arcade (Ricketts-Fleming).

4:30 p.m.—Commencement exercises.

CONGRATULATIONS,
AWARD WINNERS

CALIFORNIA TECH

NO HOT RIVET
THIS YEAR

California Institute of Technology
Pasadena, California, Friday, May 25, 1951

Volume LII

No. 29

Info Given on Draft Test Sat.

All those who plan to take the draft deferment examinations tomorrow should meet on the stairs in front of Throop hall by 8:30 a.m. with their draft cards, admission cards, and wits. Everyone who is taking the test must know the exact address of his local selective service board, and must know his selective service number. This information is on his draft card. Secondly the applicant must bring his ticket of admission if he expects to be permitted to take the examination at all.

Pen or Pencil Required

Nothing else besides these two cards should be brought except a pen or No. 2 pencil for filling out forms. The test is actually only three hours long, but the fingerprinting of all those present will probably make the exam last till 12:30 p.m. The Caltech staff will administer the test on this campus. Those taking the test will go to Throop hall and receive a card directing them to a certain room on the campus where he will take the examination.

Deadline Today

For all those who have not noticed, the deadline for sending in applications for the June 30 and July 12, 1951, tests has been extended until today. This has been done for the benefit of those who can't take the exam except on July 12 because of religious beliefs against school on Saturdays.

Tech Staff Shindig At Dino's Tuesday

Pizza and other Italian delicacies will tempt the palates of members of the California Tech staff Tuesday night at the annual (second) clambake, to be held at Dino's, 2055 East Colorado st.

Plans are for a strictly stag shindig, and the festivities will get underway at 6:30. All present or past Tech staff members who wish to attend should leave their names with Chuck Benjamin, Ricketts 56, as soon as possible.

Old Tech Copies Needed for Files

Have you been saving back copies of the Tech? In going through their files of past issues of the California Tech for binding into permanent volumes, the editors have found certain copies missing and would appreciate it if anyone who has the following old numbers would turn them over to the Tech.

The missing issues are: the Hot Rivet of 1947 or indeed any old Hot Rivets, and the regular issues of Oct. 9, 1947; Oct. 16, 1947; Nov. 6, 1947; May 13, 1948; and May 18, 1950. When we acquire these copies, we will have complete bound files of the Tech available to all students dating back to the fall of 1946, when the civilian students took over Caltech from the Navy.



Dr. Lee A. DuBridge, president of Caltech, will address graduates and guests at the graduation exercises of the class of 1951 Friday afternoon, June 8, on the Athenaeum lawn.

PARK YOUR KIDS

A nursery will be maintained in the Throop Club lounge during the hours of commencement for the children of graduating students. Please make reservations by telephoning Mrs. H. Victor Neher at Sy. 7-9638 or Mrs. William Pickering, Sy. 8-2570.

Big T Assessment Next Year

An assessment of one dollar per term will appear on student bills next year to pay for the 1952 Big T, according to John Gee, ASCIT treasurer.

This assessment is due to decreasing enrollment and rising costs concerning student body activities in general and is being put into effect in order not to have to raise the price of student body membership.

No charge will be made for this year's Big T, which will probably be out on time this year, since it is now in complete form at the printers.

The provision for this assessment has been in the ASCIT by-laws for a number of years but has never been used, since there

Historian Sees Need for Positive Party Programs

By Duane Marshall

What's wrong with our government today? This question has been asked a great many times. A lot of answers have been given. Most people have, at one time or another, tried to puzzle out the answer. Some have arrived at their own answer. Others have given up the problem as being too complex. But how many people do you know who have done something about it?

"The Republicans, as a party, have no positive platform, and the Democratic party, while it has a positive platform, has weak leadership." This is the analysis of the situation by Dr. John A. Schutz of the Humanities Dept.

Dr. Schutz is one of the people who have seen that something is lacking and is doing something about it.

Earlier in life he wanted to go into politics to accomplish something. But he was against partisan politics and entering the field looked disagreeable. He changed his mind and became a historian.

Active History

Dr. Schutz's ideas on what a historian should be were different from those of the average

Frosh, Sophs Beach Bound

Freshmen and sophomores will throw off their chains of perpetual snaking at the Frosh-Soph beach party this Sunday at South Laguna Beach. The party will be a drag affair, of course.

Things will begin about 2 p.m., consuming the afternoon with swimming, volleyballing, sunbathing and other sports. Chow will be served at 5 o'clock after which there will be a big bonfire with singing and entertainment for the rest of the evening.

Maps to direct you to the spot can be obtained from your section leader.

Dramatic Group Elects Officers

Before the benefit performance of "Mumbo-Jumbo," given in McKinley high school auditorium for the Service League last Saturday, the ASCIT Drama club elected officers to serve next year.

President-elect is Pete Verdier, who played "Pee-Wee" in the play; Veep is Jim Wilson, Larry Starr is secretary, and Les Earnest, treasurer.

Honors, Letters Presented At Award Assembly Today

Contributions for Magazine Urged

The Caltech literary magazine, whose definite publication date has been postponed to next fall, still needs contributions in the form of short stories, sketches, poems, and essays.

Under the auspices of the English department, the publication would appreciate any work which students may write over the summer, including science fiction works. Such stories should be turned in to Leon Vickman, Dabney 37; Jim Wilson, Ricketts 19; or Mel Goldberg, off-campus.

AFROTC Open To Some Techmen

Dean Strong announced that all present freshmen who have had two years or more of high school ROTC training, and all veterans, are eligible for the U.S. Air Force ROTC, which is planned for Caltech next year.

According to USAF officials, anyone who is eligible and signs up now is free from induction during the summer and all next year until basic training is finished.

No one is obligated to the USAF to continue ROTC training unless he decides to go into advanced ROTC in the junior year. Then there is no backing out, but induction is also unlikely.

However, no physical except that required for admission to Caltech is required for the first two years of basic training, corresponding to the freshman and sophomore years in college.

All present freshmen who (Continued on Page 4)



Dr. John A. Schutz

threat to the Democrats. The voter is faced with no reasonable alternative.

While the Democrats do have a positive platform, Dr. Schutz believes that it would be too hard to get their weak leaders out of office. In his own way then, he has undertaken an "education of the Republican Party."

IH Trophies, Honor Keys Presented; Johnston Wins Tau Bate Frosh Award

Outstanding Techmen were honored this morning at the ASCIT awards assembly in Culbertson, under the management of Babe Karasawa, athletic manager of the ASCIT. At the convocation varsity and frosh sports letters were presented, as well as honor keys and certificates, the Tau Beta Pi outstanding freshman award, the Scott tennis trophy, the Goldworthy track trophy, the Alumni baseball award, the IH "snake," varsity

trophies, and the debate gavels. The retired ASCIT president, Ulrich Merten, was given a memento of his term of office by his successor, Dave Hanna.

25 Honor Awards

Honor keys were awarded by president Hanna to 25 men outstanding in student body activities. Three-year men on the award were Oliver Gardner and Ulrich Merten; those honored for the second time were Stan Groner, Bob Kurland, Dick Libbey, Robert Parnes, and Jesse Weil.

First-time keys went to Leo Baggerly, John Boppert, Art Cuse, Dean Dailey, Barney Engholm, Pat Fazio, John Fee, Jon Goerke, David Hanna, Peter Mason, Duane Neverman, Philip Orville, Dallas Peck, Don Schmid, Bob Stanaway, Kent Stratton, Donald Tautz, Bill Whitney.

Honor certificates went to the following men: Chuck Benjamin, William Blodgett, Ed Bryan, Frank Dryden, Phillip Halverton, Earl Hefner, Hiroshi Kamei, Babe Karasawa, Robert Laff, Carl Larson, Budd Le Tourneau, Frank Ludwig, Anthony Malanoski, Duane Marshall, Jack McEwing, Morgan Ogilvie, Al Pitton, Henry Richter, John Rogers, Charles Steese, Neil Stefanides, Perry Vartanian, and Leon Vickman.

Track Letters

Coach Bert La Brucherie presented the varsity and frosh track awards. Varsity track letters were: Captain Pete Mason, Paul Aagaard, Ray Heacock, Bill Irwin, Al Johnson, Jim Kliegel, Jim Latourette, Sam Middlebrook, Bob Parnes, Bill Pilkington, Denny Riggs, Neil Stefanides, Don Tautz, Bob Waid, Hal Woody, and manager Billy Drake. A senior service award went to Hiroshi Kamei.

Frosh numerals were: Phil Birkeland, Hart Brooks, Bob Campbell, Paul Cramer, Earl Evleth, Ed Gauss, Dick Hodges, Gene Kaiser, Tom Kirkpatrick, John Lloyd, Bruce Munn, Stan Ogden, Bill Parker, Sam Vodopia, Cole Williams and Bill Corbin, manager. The Goldworthy track trophy was given to Pete Mason.

Tau Bates Laud Johnston

Barclay Kamb, president of the CIT Tau Beta Pi, awarded the outstanding freshman award to George L. Johnston. Johnston was very active on campus, being Frosh class secretary and BOC member, Newman Club officer and section leader of Section A1, while maintaining a high GPA.

The Frosh baseball awards were made by coach Huck Davies. Numerals were given to: Numeralmen: Richard H. Clark, Fred W. Garrison, Lee A. Henderson, Donald L. Hook, John N. Kidder, Alan H. Nicholson, Robert E. Pechacek, Robert J. Salkeld, G. Bart Stryker, Don L. Turcotte.

Manager: Benjamin M. Rosen. Ed Preisler awarded varsity baseball letters to: Lettermen: Walt Pfeiffer, Co-Capt.; Lou Stallkamp, Co-Capt.; Norm Gray, Bruce Hedrick, Rolie Johnson, Babe Karasawa, Dave Koons, Duane Neverman, Bert Snider, John Winslow, Bill Wise.

A senior service award went to Bob Munro. The Alumni trophy was won by Babe Karasawa and Walt Pfeiffer.

Debating Dr. Lester McCrery, debating coach, made gavel awards to the following top arguers; Ulrich Merten (4th year), Stan Groner (3rd year), Swaroop Bhanj-Deo (2nd year ruby), and Carl Larson, William Kemmel, Irwin Rubenstein, and James Enright (1st year gavels). Certificates went to Michael Callaghan, Thomas Janssens, Mathew Meselson, and Arthur Savran. By virtue of their having won the National Debate Tourney in Oklahoma, Dr. McCrery announced, Ulrich Merten and Stan Groner qualify for the highest award of the Pi Kappa Delta, national forensics society: the Degree of Special Distinction. The Caltech chapter of Pi Kappa Delta was given the classification of "Excellent".

(Continued on Page 4)

Remember the Honor System

We are proud of Caltech for a number of reasons: good teachers, a student body composed of geniuses (perhaps momentarily disillusioned three times a year), and also because of our Honor System.

Our Finest Possession

The Honor System is the thing we can be most proud of. Other schools claim good teachers, and all students near geniuses, but not too many other schools can claim a good working Honor System like Caltech's.

It is the duty of each of us to keep the Honor System at a place where we can be proud of it.

Exam Time

So, as exams roll around again, just a reminder—watch your exam habits and do your personal part in maintaining Caltech's most honored possession—our Honor System.

Mike Callaghan
Chairman, Board of Control

THE SQUARES' CIRCLE

M. B. Carus chez Mme. Vatez
1, Bould de la Saussage
Neuilly-sur-Seine
Paris, France

Fellow Students,

In case anyone is interested in studying abroad, I thought I'd write a short note telling briefly about my experiences. I am a graduate of Tech, class of '49, and left for Europe in October '49. I had previously written the "Technische Hochschule" in Zurich about admission, but they did not accept me on the grounds that I was not working for my doctor's degree (in Chemistry), and because the chemistry laboratories are overcrowded (at CIT I got my degree in EE).

But although I could not say more than a few sentences in German and without any definite acceptance to a university, I came to Germany and tried to get accepted to the University of Freiberg, where I had some distant relatives. Although with a little difficulty I was accepted. The experiences there were very interesting and I stayed for just about 1 1/2 years. Perhaps I would have left sooner if I hadn't gotten married (March 3, '51). And now till the first of July, I am studying here in Paris with my wife.

But there are many possibilities to study abroad. Chuck Shaller and Neal Hurlly studied at the University of Zurich, the Goon with his wife here at Paris, Don Baker with his wife at Oslo. And now Breck Parker with his wife is studying at Freiberg and Jim Blom at Innsbruck.

To get the latest on scholarships, the Fulbright bill, boat trip possibilities, GI Bill, etc., write (the sooner the better):

International Institute of Education
2 West 45th Street
New York City 19

And in case there are any questions, please write here before the 1st of July.

Sincerely,
Blouke Carus

THE SPACE BEAVER

by Al Lewis

The article on science fiction in the May 21 issue of Life magazine is an excellent one, representing many hours of careful preparation. When Life first decided to do an article on the subject, they knew almost nothing about it, having but a vague idea composed of equal parts of Atomic bombs, Destination Moon, Buck Rogers, and Shaverism.

So they sent out their representatives to gather facts, and gather them they did, on a national scale.

The result of all this is the first accurate and serious treatment science fiction has received at the hands of the general public. DRAGON'S ISLAND by Jack Williamson, Simon & Schuster 1951, \$2.50.

A young "genetics engineer" comes to New York to try to secure a renewal, from the gigantic Cadmus Corporation which raises a valuable plant on its New Guinea plantations, of a research grant under which he has been working. He becomes involved with a beautiful girl who gives him tests for a psi faculty without explaining why, a reporter with a peculiar lizard smuggled from New Guinea, and a private detective who tells him of a race of artificial mutants trying to take over the world, and produces his prime exhibit: a young spaceship growing on a tree. The hero suspects the Corporation is a front for the mutants, investigates, is captured, and discovers that he, too, is a mutant, only after he has thoroughly fouled up the mutants' plans. Chief criticism is that the ending, like several other Williamson endings, is contrived: there is little motivation for the surrender of homo sapiens to the mutants after the mutants have been soundly defeated.

F N Folds

Popular Publications has announced that Fantastic Novels magazine has ceased publication with its June issue. They also have announced that Super Science Stories will skip its October issue, "due to the paper shortage."

For the Future

Due for future publication: Rogue Queen, an original novel by L. Sprague de Camp, from Doubleday, Foundation by Isaac Asimov, from Gnome, The Unbegotten Man, by Theodore Sturgeon, The Weapon Shops of Isher by E. van Vogt, Let the Finder Beware by James Blish all from Greenberg.

Who Dealt This Mess

By John Rogers

The hand for this week illustrates a particularly useful play which, however, is used altogether too infrequently. It is known as a "loser-on-loser" play. The principles involved are very simple, namely: "If you are going to lose a trick, throw a losing card on it."

Practical Strategy

Those people who consider that most of the hands discussed in this column are of no practical value to the average bridge player may take heart at the fact that this week's hand was recently played by the author. They may also derive some satisfaction from the fact that the bidding is not indicated—for the simple reason that it was too atrocious to be mentioned. It will merely be said that the final contract is three spades, played by South.

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

Since east had once bid diamonds, the opening lead is the diamond jack. The king is played from dummy, and east takes the trick with his ace. East then leads the diamond queen, and notes that both his partner and declarer are void in the suit; he then follows with a low diamond, hoping his partner can over-trump south.

Decisive Play

This is the crucial play in the hand. South cannot trump with a high spade, for fear of losing a trick in the suit if distribution is uneven. Nor can South trump with a low spade, since west will win the trick with his seven. The correct card to play is the five of clubs, since it will be lost under any conditions. Declarer, then, has realized that the loss of a trump trick is unavoidable and has made the contract by discarding another certain loser.

Dr. Espy Spoke

Last Monday, Dr. R. H. Edwin Espy, executive secretary of the National Student Council of the YMCA, was the guest at a meeting held at the Y residence. In a brief talk, Dr. Espy outlined the Y program in American colleges today. He said that the Y attempts to relate a person's religion to his total life by developing in him a social conscience.

Y's Doings

by Rubenstein

Last night at 7:15 the Caltech Y held its annual business meeting in the Y Lounge. Five new members to the Y Board of Directors were elected at this meeting.

Clothes Needed

Next week the Caltech YMCA will hold its annual clothing drive for the American Friends Service committee which will distribute the clothes among people in Europe and the Navajo Indians. Heavy outside clothing is particularly needed. Boxes will be placed in all of the student houses as well as Throop hall and Dabney hall.

Smith Leads Discussion

Next Monday at 11:00 am, Dr. Hallett Smith will be the guest moderator at the casual coffee-hour held in the Y Lounge. The topic will be, "What is a Liberal?"

The Frosh lunch club holds its last meeting of the year next Tuesday noon at the training table. Dr. Lee A. DuBridge, president of Caltech, will be the speaker.

Conventions

For fans on the west coast this summer, Westcon IV is being held in San Francisco on June 30 and July 1. Reportedly Anthony Boucher has gotten behind it and is backing it in a big way. The Ninth Annual World Science Fiction Convention, the Nolacon, is being held this year in New Orleans, La. This will be a four day affair, featuring almost everything under the sun to do with science fiction: speeches, auctions of original drawings and manuscripts, a banquet, a dance, etc. Anyone who is able to should plan to attend, as these events are a great deal of fun, and you will have a chance to meet a large number of leading authors, editors, fans, etc.



Beavers Revel

Tech's society for the preservation of campus wheels, the Beavers, held their annual initiation shindig last Friday night at the home of an ex-Techman out on Hastings ranch.

Those who arrived early found themselves building barbecue fires, while their dates were drafted into the salad tossing crew. But the barbecued steaks and Dr. Jahns' Joy Juice made the dam-builders and their dates forget the painful initiation fee which they had to fork over the day before.

Thespians

Skits were presented by the initiates—the first being a parody on Little Orphan Annie. True to Harold Gray tradition, the actors gave out with a chorus of "God bless free enterprise, system that we love" accompanied by arfs from "Sandy" Boppard and harks and leapin lizzards from Little Orphan Karasawa.

The other pseudo-dramatic attempt was a seven-part routine by Max Shulman performed by five Beavers. The outstanding line of this was "Whoosh," a la No-Nose Benjamin, and the outstanding actions were the "horsing" with Sweet Alice Kitching.

Darb Sports

In Dabney much was ado; a small Beaklet with baby blue cashmere diapers and platinum safety pin was hard-pressed to heft his bulky data sheet of the week's activity. The troops had set a precedent by rallying to the eastern balcony prior to the Dabney-Blacker volleyball game. The only casualty was a water-bagged neutral frosh, but excitement runs high over cross court weapons: "If you can build a better catapult..."

Papal Bull

Rumor has it that the purity of pinned social chairman Ludwig as imposed by His Reverence, Pope Lee, came a bit early, viz., Ludwig and Shreve's veto on one of the funnier skits that had been prepared for the Beaver party.

Friday social note from Riviera Country club: four Dabney couples sip warm cinnamon tea at Whittier prom. Fog obscures moon. Chinese girls contribute

atmosphere. That's all.

Hellzapoppin

Frosh Bryan used his student house sheet to best advantage Saturday night at 'zapoppin party—first prize winners were Mr. and Mrs. Caesar. We rather preferred John and Marsha who debunked from the idea of involved costumes and came as they were; mukuks and one of Esquire's better outfits for women.

Don Stewart and his very attractive friend were attending in costume, but dropped a close contest for a second prize to Leon and Daisy. Don was not a bit embarrassed all evening. The party adjourned quietly as Hedrick flattened his nose against the screen door, upon hearing Miller drop his cider bottle on the porch. A rain of poker chips rebounded from a pair of fleeing cashmere diapers.

House Party

Sunday began with a bouncy ride to Arcadia in the Stockebrand-Thomas stroker. Winston Royce's uncle's home was open to all, complete with lighted swimming pool and the most invidious of frustrations—croquet.

Hedrick was winner, pulling away by two wickets after dark. T. S. without his sex-ring of the preceding night was still quite the gay blade: two dates per weekend with his charming Schimpsey; a happenstance heretofore thought impossible with Eastern women. Host Royce spent the afternoon unlocking the ladies boudoir, as each Miss in turn would forget the latch. Thoughtless skirts, all of 'em. Credit Bob Laff with the day's funniest demonstration lecture

Harvey's Debut

The Blacker blast of third term took place last Saturday night in the form of a 20th anniversary formal, Doc Eagleson presiding.

In a touching half time ceremony, which left not a dry eye in the place, Hefner heaped praises on Tautz, and Tautz heaped brass plaques on Hefner.

Berry Washer

Jolly boy Jacobs washed strawberries through the first half of the evening as Blodgett and Cuse feverishly worked over the punch. Scott Lynn and date had a fight and made up. The band was pretty good, but

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in as much as no one had remembered a P.A. system, the vocalist, huddled in a corner of the lounge, making her only debut of the evening with Blodgett. Impressed with her charms, Blodgett forgot to get her name, address, or phone number, and was last seen looking for the bandleader's address.

It was Al Johnson's second formal in as many nights, having hit Whittier Friday. And with the full moon, geologists appeared. The Otter came out of the night and into Blacker House adventures with a new date, while carrying on as usual, was Greutert, from whose room joyful screams emanated (as usual) throughout the night.

Cast Iron Cowboys

Fleming men have taken to dangerous living nowadays, with George "Flat-out" Moore and Al "Death-at-the-handlebars" Pitton acquiring motorcycles. Book is being made by Kliegel and Mar-ion as to how long it will be before they break something, and Tom Scruggs is gleefully polishing up another pair of crutches for the next customer.

Lost—One Beach

The Fleming beach party was enjoyed by all who attended, that is to say, those who could find it. At least half of the would-be attenders were unable to locate the particular stretch whose use, and the map to find it, was donated by Mort Cramer. Noted in attendance were Don Handen, Jack Behnke, and Billy Drake, the perpetual stag.

Cast Blast

A cast party was held by those playing in "Mumbo-Jumbo" Saturday night, which started in Blacker (strangely enough, with nobody from Blacker in attendance) and ended somewhere in Los Angeles. Those who took part drifted in at various odd hours in the morning. Norm Bulman was noticed with a glamorous date who is rumored to be a television actress. How these R.A.'s do get around.

COOL OFF, BROTHER



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Prospects Good For 1951 Football Team

Winding up four weeks of spring practice, Coach Bert LaBrucherie's gridmen were scheduled to hold their intra-squad game yesterday, Thursday. Results, of course, are not available for this issue, but Bert seems optimistic about the team's chances this year. With 19 lettermen returning and some good material up from the frosh team, chances look pretty good for a winning season.

Lettermen Leave

Major losses from last year's squad are Dallas Peck and Noel Reed, first string guards, and Don Schmid, end. Others lost for action this year are Taylor Joyner, Bruce Wallace, and Al Teague. Their positions should all be filled capably by returnees and new men, however.

Back for Action

Returning lettermen are ends Irwin, Michaelson, Janssens, Parnes, Stefanides, and Gee. At tackle are Tallman, Muehlberger, Fuller, and Earnest, and at guard Peck and Lamar. Hanna is back at center; Johnson and Marshsall at quarterback, Karasawa and Moore at left half, Woody at fullback, and Walker at right half complete the lettermen. Other squad members out to win their letters this year are Fazio and Cooke at half, and Pilant at center.

From Frosh

From the frosh are Kirkpatrick and Williams at full, Lloyd and B. Kaiser at halfback, G. Kaiser at QB, Stryker, Taylor, Evleth, and Gortten at guard, Abbott at tackle, Henderson and (Continued on Page 4)

Buttin' In by Butler

The Beaver nine lost a closey to Redlands Saturday but no one felt too badly as the Engineers closed the curtain on the most successful season since 1942. Oddly enough, in that year Tech and Redlands also tied for second place in the league race.

Next Season Hopes

When next spring rolls around Preisler is going to miss a few men such as Johnson, Hedrick, Neverman, and Pfeiffer who will graduate this June. But Ed seems pretty confident that he can replace all those first stringers and come up with another fine club next year.

Football Is Here

Bert LaBrucherie was on this writer's neck Monday morning for not delivering promised publicity on spring football practice. This spring the turnout has been very good and the men really feel that they have accomplished a great deal toward making next fall a great season (Continued on Page 4)



Seniors Number 45 Lettermen

With graduation, Caltech is losing 45 seniors who have earned varsity letters in one or more sports during their four years here. Though this leaves a big hole in the ranks of competing teams, we hope it can be filled in the future. And we'd like to wish all of these men a lot of luck in the years to come.

Four-Year Men

Topping the list of lettermen are two who have lettered four years, Bradford Houser and Bruce Hedrick. Hedrick has received four letters in baseball, while Houser received his in swimming, cross-country, football, soccer, and water polo.

Three-Year Awards

Honored for three years of varsity participation are: Thorne Butler, basketball and tennis; Richard Libbey in swimming, water polo, and basketball; Hugh Martin, tennis; Peter Mason, track and cross-country; Duane Neverman, baseball; Walter Pfeiffer, baseball; Noel Reed, football and swimming; Alfred Sereno, basketball; and Louis Stallkamp, baseball.

Nine Take Part In Decathlon

After a two year lapse, Doc's Decathlon will be run again this year. Despite difficulties in scheduling because of football practice, selective service tests and other such trivia (trivia to the track fan at any rate), the meet will be run this Friday and Saturday afternoons, May 25th and 26th, at 1:30 p.m.

Nine Contestants

At present a total of nine men are entered. These are Hiroshi Kamei, Hal Woody, Don Tautz, Jim LaTourette, Jim Kliegel, Bob Parnes, Ed Gauss, Ken Berg, and Dick Dickinson.

The Decathlon consists of ten events, the 100 meter dash, the 400 meter dash, the 1500 meter run, the 110 high hurdles, and the shot put, discus, pole vault, javelin, high jump, and broad jump.

Standards

The marks in each are scored according to a standard table put out by the International Amateur Athletic Federation, so that scores can be compared with any made anywhere in the world. Bob Mathias, now at Stanford, holds the record with 8042 points, while Rev. Bob Richards, the ace pole vaulter from LaVerne College, is seventh in the U. S., and hopes to improve his score this week at the Muir Decathlon.

Smith Repeats In Scott Tourney

The finals of the Scott Tennis Tournament were played Friday afternoon after Jack Martin defeated Roger Baier in the semi-finals 6-3, 6-1, last Wednesday. Palmer Smith edged over Jack Martin in a close three set match of 4-5, 7-5, 6-4.

Beaver Nine Drops One To Redlands

Season Closer Ends In 5-4 Defeat; Second Place Cinched

Tech's varsity nine ended their league season Saturday, losing to Redlands five to four. The team was not behind pitcher Hedrick when it counted, making four errors, three of which gave Redlands a run or an opportunity to score a run. Tech's tallies were aided by one Redlands error, but the runs might have scored if the error were not made.

Conference Standings

This leaves the Beavers with seven wins and three losses for the season. Oxy is first with one loss and nine wins. Redlands has six wins and three losses. The Bulldogs still have to play Chapman and if they beat Chapman they will be tied with Tech for second place.

Four-run Inning

The Beaver runs were scored when after one out in the sixth Karasawa singled, Wise singled, and Stallkamp walked. Koons then singled to left field; the left fielder let the ball roll through his legs and Karasawa, Wise, and Stallkamp scored. Neverman was put out and (Continued on Page 4)

Frosh Sports Roundup by Chuck Sargent

The baseball team closed its season with a 4-3 loss to Redlands last Saturday. The game was close all the way and was not decided until Redlands scored a run in their half of the ninth inning. With two men out and a man on second base, the Bulldog pitcher won his own game with a double.

Fielding Improved

The heaverbabes' fielding was improved last week; they only committed five errors against Redlands. It looks as though, with the season over, the team has now been molded into a pretty sharp outfit. Sparked by Garrison's sharp playing at third base, the Techmen's fielding was superb, but their hitting punch was below par. A few more hits in the pinches might have won the game.

The top batting averages for the season:

Stryker	.....	.400
Pechacek	.....	.333
Hook	.....	.222
Garrison	.....	.200
Kidder	.....	.174

Poor Year

The intercollegiate sports are now over for the year 1950-51, and a quick look at the record books shows that the frosh teams at Tech were rather disappointing this year. The biggest reason for their dismal showing was the lack of experienced players, or in some cases the lack of any players at all.

Beginners

Many of the men competing had no high school experience, and they had to begin their de- (Continued on Page 4)

Fleming Ends Up In IH Basement

Last week's volleyball contests wound up the Interhouse sports schedule for another year. The Rowdies kept intact their perfect volleyball record by downing Throop 10-15, 15-12, 15-10 on Monday, and Blacker by scores of 15-13, 15-1 on Wednesday. Dabney eked out a 13-15, 15-9, 19-17 win over Blacker on Tuesday in extra innings.

Fleming Out of It

The fall of Fleming's Red Machine from IH sports dominance was complete, as the final point scores found them in last place. Throop, adding insult to injury, piled up a 20 point lead over their nearest rival for the inter-house trophy.

Here's a quick summary of scores in the various sports.

SPORT	B	D	F	R	T
Baseball	17 1/2	7 1/2	17 1/2	7 1/2	25
Cross C'try	12	9 1/2	6	15	0
Basketball	10	25	15	5	20
Tennis	15	3	6	12	9
Softball	18	10	4	10	18
Track	10	15	20	3	25
Swimming	12	15	9	3	4
Football	15	10	5	25	20
Volleyball	3	9	9	15	9
Totals	112 1/2	103 1/2	91 1/2	97 1/2	132

Campus Interviews on Cigarette Tests

Number 20...THE BALTIMORE ORIOLE



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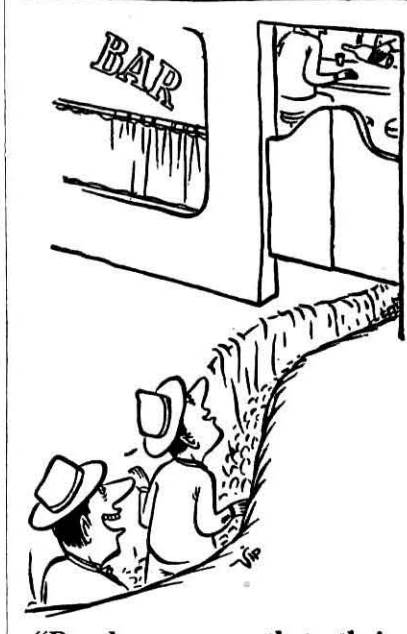
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BUTTIN' IN
(Continued from Page 3)
for the Beavers. But in order to give the fans an exclusive look at things to come, Bert staged an intra-squad game yesterday afternoon.

Faculty Prepares
With the Faculty-Senior softball game coming up on June 5, I hear that the professors are really training seriously for the contest. Under the sly heading of "Caltech Chemists," the faculty has a team playing in the Pasadena Recreation Department's Owl League. It looks like the '51 nine is in for a tough going over come June 5.

What Happened
In the IH trophy race Fleming certainly took a back seat as the usually potent Red machine finished last.

No More Column
Our editor in chief, C. Benjamin, passed out the glad word that this week's issue will put the sheet to bed for the summer. So in accord with custom, the sports columnist writes his farewell story. Therefore not to break tradition, here we go.

Thanks
My sincere thanks to Mr. Musselman and his staff for being so cooperative in supplying facts and interesting anecdotes which did so much to fill up the inches every Monday night. And to the many others my appreciation for your helpful ideas and critical opinions which were most gratifying in that it proved lots of guys at Tech have a real interest in athletics.

Outlook
Since coming to Tech way back in '47, I have seen two important changes take place; both of which should make Tech a stronger competitor in the SCIC. First, the day for starting construction on the gym is drawing closer, thanks to the Alumni Association's generous contributions. And probably more important, the apathetic attitude toward intercollegiate athletics is slowly being converted into a more enthusiastic approach.

That Ballad Again
The rumor has it, that on the death toll of this column, the professor of En 15 will proclaim a day of rejoicing. So to paraphrase that well known barracks ballad:

*This column will not fade away,
It will just die.
That's thirty for now.*

Egad!
If a girl's a good loser at strip poker, it isn't always sportsmanship. Sometimes it's plain conceit.

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Take Some Home!

Fleming Holds Famed Carnival

This Saturday night Fleming is putting on its annual carnival dance. Fleming court will be turned into a carnival midway lined with concessions giving numerous prizes. There will be hot dogs and soda pop for all. The carnival will start at 8:00 p.m. with dancing starting at 9:30.

PROSPECTS GOOD
(Continued from Page 3)
Plambeck at end, and Saliba at center. A newcomer is Kemmel, at guard.

LaVerne First
Fall practice starts two weeks before school, September 10, and will be held every week night from 7 to 9:30. First action next year comes September 22, when the squad journeys out to LaVerne. The following week the lads play Arizona State at Flagstaff. The full schedule:

Sat., Sept. 22, 8:00 p.m., LaVerne at LaVerne
Sat., Sept. 29, 8:00 p.m., Arizona State at Flagstaff
Fri., Oct. 5, 8:00 p.m., Redlands at Redlands
Sat., Oct. 13, 2:15 p.m., Pomona at Pomona
Fri., Oct. 26, 8:00 p.m., Whittier at the Rose Bowl
Fri., Nov. 9, 8:00 p.m., Occidental at Occidental

BEAVER NINE
(Continued from Page 3)

Pfeiffer singled to score Koons.

CALTECH		REDLANDS		Pos.		AB		R		H		PO		A		E	
Runs	000	004	000														
Hits	001	004	110														
Pos.																	
Karasawa	3b	4	1	3	3	3	4	1	1	1	1	3	3	4	1	1	1
Wise	cf	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stalkamp	ss	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koons	1b	4	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Neverman	rf	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pfeiffer	c	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Johnson	2b	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Snider	if	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hedrick	p	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray	p	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winslow	p	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*batted for Snider in ninth																	
Players Records for League Play																	
	Pos.	AB	R	H	PO	A	E	RBI	Av.								
Karasawa	3b	49	12	22	12	32	9	13	.449								
Pfeiffer	c	38	11	12	63	8	5	5	.316								
Johnson	2b	41	9	12	30	19	3	10	.293								
Neverman	rf	35	12	10	14	0	4	11	.286								
Koons	1b	40	9	11	91	5	4	9	.275								
Gray	p	27	4	7	1	22	7	6	.259								
Stalkamp	ss	35	6	9	20	23	5	14	.257								
Wise	cf	44	8	9	13	0	1	2	.204								
Snider	if	33	10	4	19	1	1	3	.121								
Hedrick	p	12	1	0	2	0	0	0	.083								
Winslow	p	4	0	0	0	1	2	1	.000								
Gea	3b	0	0	0	0	0	0	0	.000								
Stewart	rf	2	0	0	0	0	0	0	.000								
Stern	2b	2	0	0	0	0	0	0	.000								
Keir	3b	1	0	0	0	0	0	0	.000								
Munro	pb	1	0	0	0	0	0	0	.000								
Smith	pb	1	0	0	0	0	0	0	.000								
Team									.268								
Opponents									.231								

AFROTC OPENINGS

(Continued from Page 1)
have had a two year high school ROTC background should contact Dean Strong or Miss Pond in 119 Throop as soon as possible whether they are interested in joining or not. The ROTC unit here will train ground officers, not pilots.

HONORS PRESENTED
(Continued from Page 3)

Dick Libbey, Noel Reed, Bob Stanaway, Dick Von Herzen, Jesse Weil, Jim Wyman, and manager Jim Enslow. Ulrich Merten received a senior service award.

Frosh award winners were: Gunther Perdigao (captain), Ed Bryan, Norm Ellett, and Bob Smith.

Coach Garman also announced that all Water Polo lettermen shall receive silver tokens for having won their Division championship last fall.

IH Presentations

Hal Musselman, Director of Athletics, awarded the Interhouse Trophy to Throop club. The Varsity Rating Trophy he presented to Fleming House.

Mr. Musselman also made the awards for golf. Letters were won by:

Steve Pardee, Capt., Dean Blanchard, Charles Davies, Dave Hanna, John Holmes, Fritz Thurstone.

The final presentation of the hour was made by George K. Tanham, Master of Student Houses, who awarded the Col. E. C. Goldsworthy Interhouse Scholarship trophy per usual to Dabney.

FROSH SPORTS ROUNDUP
(Continued from Page 3)

velopment right here at Tech. One season of active playing in a sport is not enough to develop a champion, but as most cases showed, by the time of the final games, some of the greenhorns were playing like seasoned veterans.

Outstanding Men

Nevertheless, these weak teams did produce some men who promise to be prominent on the Tech athletic field before they graduate. In football there were Bart Stryker, Bruce Kaiser, and such linemen as Hugh Taylor, Ron Saliba, and Gene Kaiser. In basketball there was Fred Anson, who averaged 27 points a game. The top track men were Gene Kaiser, Bruce Mum, Tom Kirkpatrick, and Keith Campbell. In baseball, Bart Stryker and Bob Salkeld were tops, while Bruce Kaiser led the racketmen.

All-around

There also were men who served time on several teams. Bruce Kaiser played football, basketball, tennis, and baseball. Moose Henderson played football, basketball, and baseball. Curt Johnson played football, basketball, and tennis. These

Throop Goes to Zuma for Party

Last Sunday Throop Club journeyed to Zuma beach where they spent the day swimming, cooking hamburgers, and playing softball. Many brought grills on which they cooked hamburgers, but a little ingenuity and some pieces of driftwood found on the beach provided for the others.

Water Was Cold

A few of the hardier souls went swimming in the cold Pacific, but for most a game of baseball was sufficient exercise. Kitching's date became an automatic member of Throop's softball team by striking out Frank Lang three times in succession.

Bowling Saturday

Next Saturday Throop will hold a bowling party at the Pasadena Bowling Courts at 8:30. There will be dancing afterwards in Throop's lounge.

men and others deserve a vote of thanks for all the effort they put into Tech's frosh athletic program this year.

Who owns big business anyway?



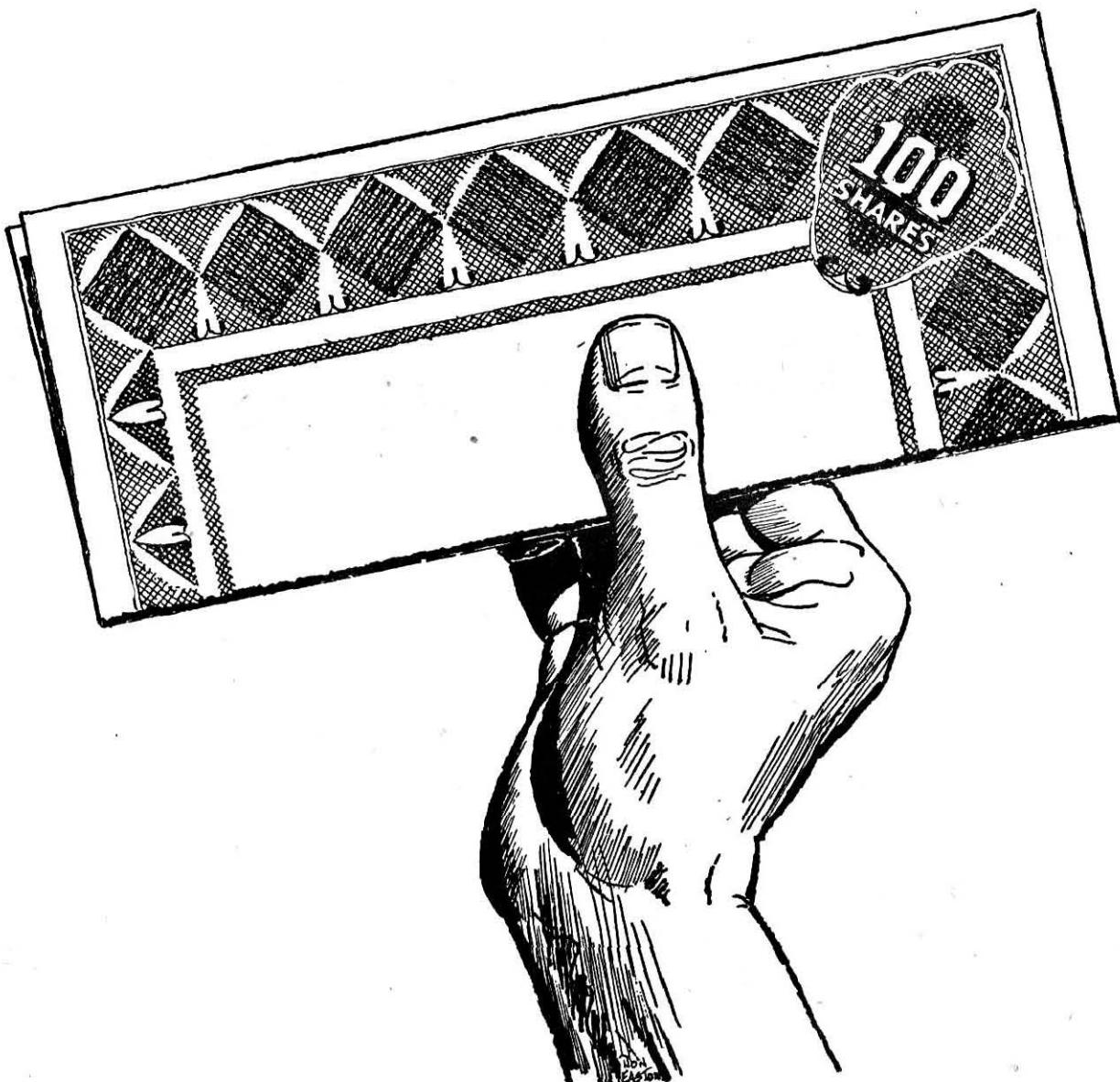
1. Many people, including the Russian delegates to the United Nations, don't seem to understand who owns America's corporations. They continually talk about "Big Business" and "Wall Street Capitalists" as if our big companies were owned and run by a handful of "economic royalists."



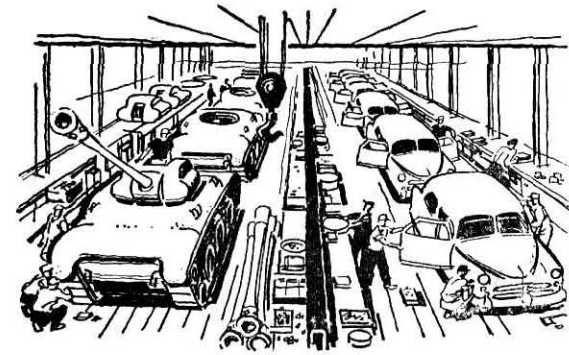
2. As a matter of fact, practically all large American corporations are owned and run by the American people. Union Oil Company, for example, has more than 36,000 stockholders—owners. 33,613 of our common stockholders are individuals—15,528 women and 18,085 men. The remainder consist of some 2,500 educational, religious and charitable institutions, labor unions, insurance and trust companies.



3. Approximately half of Union Oil's common stock is owned by stockholders who have 500 shares or less. Average shares per stockholder is 146. Naturally there are many larger holdings than this and many smaller, but our largest stockholder owns only 2 1/4% of the total stock. Our directors and officers combined own 2 1/2%.



4. In other words, Union Oil Company is owned not by a few dozen millionaires but by many thousands of ordinary Americans. And this is true of practically every large U.S. corporation.* So when the Communists argue that their system would allow the American "people" to "own" their industries, they're whistling up the wrong drainpipe. The American people own their industries already.



5. The big difference is that our system provides the incentives to the individual, the competition and the efficiency that go with private ownership. Consequently, our industries are able to outproduce, outprogress and outdo the Communists' by a country mile. And our people are free to spend their money, put it in the bank, invest it in stocks or bury it in the back yard whichever they darn well please.

*More than 15 million Americans own stock in some U. S. corporation. In addition to these, everyone who has a life insurance policy will find some of his "cash value" invested in corporations. So, altogether, probably 8 out of 10 American families have a direct or indirect stake in U.S. corporations.

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