

## 16 to receive honor keys; Certificates will go to 19

Keys given for participation in outside activities; Honor Point Committee checks over applications

Sixteen Techmen will receive ASCIT honor keys for participation in extra-curricular activities, the Honor Point Committee has announced. Nineteen more will receive certificates for their participation. Keys are awarded to men who make 100 or more honor points in one year, and certificates to those with 50 or more points.

### Keys

Those who will receive honor keys at the awards assembly are: Bob Lynam, Pat Fazio, Lee Henderson, John Merrill, Ken Lunan, Morgan Ogilvie, Gene Muehlberger, Jim Wyman, Al Haber, Bill Autrey, Ed Gehle, George Moore, Jack Walker, George Johnston, Berne Schweitzer and Jack Behnke.

All of the above are receiving their honor keys for the first time. Men who earn 100 points a second time have a second date engraved on the back of their keys. Only one key is awarded to each person.

### Certificates

Techmen getting certificates for their participation in extra-curricular activities are: Al Helgesson, Don Hook, Sam Sims, Perry Vartanian, Van Walkley, Ralph Miles, Fritz Trapnell, Earl Jacobs, Frank Dryden, Don Barnes, Bruce Kaiser, Ray Orbach, John Lloyd, Ron Raftery, Loral Decker, Rod Supple, Bill Gardner and Chuckie Benjamin.

### Committee

Honor points are awarded for participation in practically all campus activities. Applications should be made at the end of second term. They are reviewed and passed on by the Honor Point Committee, which consists of the ASCIT Vice-President, First Rep and Second Rep.

## Conger peace contest May 11

The annual Conger Peace Prize contest date has been set for Thursday, May 14, at 11 a.m. on the Caltech campus before the student body, according to Dr. Lester McCrery, who is in charge of the affair. This year the first-place award will be \$50 and the second place award \$25. Any undergraduate student at Caltech is eligible to compete.

In this contest the students will talk on either international or industrial peace. Preparation will consist of a manuscript, which must be submitted for approval not later than May 11, and which must be memorized for oral presentation. The orations will be limited to seven minutes in length. Contestants will be judged on ability to express themselves clearly and effectively before an audience, and on the content of their talks which should give an analysis of the problem and a proposed solution. Further information for contestants may be had by consulting Dr. McCrery in the speech office, 309 Dabney.

The Conger Peace Prize was established in 1912 through the generosity of the Reverend Everett L. Conger, who chose this means to promote interest in world peace, industrial peace, and in public speaking.

## Tech student wins prize with EE talk

Caltech Senior Perry Vartanian has been awarded the \$15 first prize in the annual American Institute of Electrical Engineers' student paper contest. Electrical engineering students from Caltech, USC, and UCLA compete in the contest, which is sponsored by the Los Angeles section of the AIEE.

### Joint Meeting

Vartanian's paper was given at the joint meeting April 15 of the Los Angeles AIEE section and the AIEE student chapters of Caltech, USC and UCLA. His topic was "Detecting Nuclear Radiation."

A USC student, Charles Provost, took second place in the contest with a paper on three-dimensional sound. Stanley Black of UCLA placed third. His topic was "A New Type of Direct Current Amplifier."

### Radiation

In his talk, Vartanian described the various existing types of radiation detectors and demonstrated a Geiger counter. He also described the work on a liquid ionization counter which he did last summer at the Naval Radiation Laboratory in San Francisco.

This is the second consecutive year that a Caltech student has placed first in the AIEE contest. Bill Pilkington, 1952 Tech graduate, won the prize last year. He is now a graduate student here in electrical engineering.

## McKinney contest in English May 8

The finals of the McKinney Prize Contest in English will be held on Friday morning, May 8, at 11 o'clock in 206 Dabney. All students are invited to attend. "The Meaning of Courage" is the subject of the 1953 McKinney English Essay Contest. A first prize of \$75 and a second prize of \$50 will be awarded.

Each contestant has submitted a 1200-word essay on the meaning of courage. The finalists are: S. C. Bhanj Deo, William Dibble, Michael Lourie and Irwin Rubenstein.

The finalists will present their essays orally at the assembly, and the winner will be decided by a group of five judges chosen from the community.

# Dances, beach are features of ASCIT "Lost Weekend"

## Sunday morning series announced

This Sunday morning, April 26, the Caltech Y will present a new type of religious activity. "What God Is and Does," will be the theme of five meetings presented by Dr. Albert W. Palmer.

### Dr. Palmer

Dr. Palmer graduated from the University of California, studied theology at Yale, and was ordained at Redlands. He has held pastorates in California, Hawaii, and Illinois, and for sixteen years was president of the Chicago Theological Seminary. Dr. Palmer has authored nearly a dozen books concerning religious and social life in the United States.

### Talks

The series of five meetings will consist of a presentation of the material in six of the chapters of his latest book, followed by a free-for-all question period in which Dr. Palmer is encouraging criticism of the book.

The first of the series is titled "Santa Claus and God." This will be presented in Dabney dining room at 9:30 a.m. Other topics to be presented are: "The Gods We Worship Unconsciously," "Some Legitimate Doubts About God," "How and Where We Find God," and "The Practice of the Presence of God."

## ASCIT exchange

An exchange dance, sponsored by ASCIT, will be held at Pomona College tomorrow night from 8 to 10:30. All Caltech students are invited. The dance will be held at Mudd and Blaisdel Halls at Pomona, and most of the women there will be Freshmen and Sophomores.

## Chamber music trio plays concert Sunday at 8 p. m.

Next Sunday, April 26, from 8 to 9:30 p.m. in Dabney Hall, there will be a chamber music concert of two trios: Ravel's Trio in A minor and Beethoven's Trio in E flat major, Op. 70, No. 2. The artists are Eudice Shapiro, violin; Victor Gottlieb, cello, and Harry Kaufman, piano.

Ravel's Trio in A minor is usually rated as one of the greatest concert works in this form. This trio has seldom been performed because it is an extremely difficult work. It was recorded in 1917 by R.C.A. Victor but was immediately canceled for some unknown reason. Copies of this recording are a collector's item. This work has been performed in Pasadena only once in many years. The perform-

## Techmen's dates to stay in houses; Sailing swimming offered Saturday

by Jim Adams

Two dances, a beach party and a wiener roast will make up the ASCIT "Lost Weekend" May 1, 2 and 3. First Rep Bob Profet, in charge of the event, has arranged for a full weekend of entertainment. Techmen are invited to bring girl guests from out-of-town to the affair, since housing for them in the student houses has been arranged.

The weekend will begin at 9:00 on Friday night in Dabney lounge and garden, with a dance lasting until 1:00 and featuring Keith Williams and his band. This is one of the better orchestras around and co-stars a female vocalist and a completely crazy trombone player. The theme for the dance will be, appropriately enough, May Day. (No red flags allowed). The decorations will be complete with a maypole and a genuine imported corsage bush. The dress will be suits for the men, dressy dresses for the women. Refreshments will be served and candle-lit tables will be provided around the edge of the portable dance floor in the garden.

### Sailing

On Saturday, May 2, there will be a beach party on the private beach belonging to the new American Legion Clubhouse in Balboa. The beach is located on a peninsula where the ocean is only 250 yards from the bay. Volleyball, softball, and other game equipment will be available. In addition, the Caltech Sailing Club is towing some sailboats up from the Los Angeles yacht harbor behind the full-race motorboat of Rex Peters. This will provide sailing as well as the usual swimming and loafing in the sun.

### Wiener Roast

At 6:30 Saturday evening a wiener roast will be held on the beach and at 8:30 an any-dress dance will take place at the hall, which is equipped with dressing rooms. This dance will be graced by Marshall Cram's orchestra, which played at the Frosh-Soph dance this year and really has what it takes. This dance will end at 12:00 to allow you plenty of time for a leisurely trip home.

### Map Next Week

Judging by the amount of work that is going into this thing it is really going to be a worthwhile affair to attend. Maps will be out in next week's Tech to tell you exactly how to get there, so you who are not bringing a girl in to live on campus start lining up your dates.

## Gauss is new head of student shop

Ed Gauss was elected foreman by the newly elected Student Shop Committee. John Converse will assist him as assistant foreman, Ken Ziedman is the new secretary, while Jim Crosby will serve as treasurer and purchasing agent. The other new committee members are Fritz Benning, John Carney and Chuck McKinnon. The Graduate representative is Henry Richter.

## Campus Calendar

FRIDAY, APRIL 24—  
1:30—Varsity Golf at Whittier.  
3:00—Frosh Track, Conference meet at Pomona.  
4:00—Varsity & Frosh Swimming at Redlands.  
7:30—Demonstration Lecture, 201 B.  
SATURDAY, APRIL 25—  
2:15—Varsity Baseball at Pomona.  
2:15—Frosh Baseball vs. Pomona, here.  
FRIDAY, MAY 1—  
LOST WEEKEND—Get your date NOW!

## Grads receive 16 fellowships

Sixteen students of the California Institute of Technology have been awarded predoctoral fellowships for the 1953-54 academic year by the National Science Foundation. They are among 566 students throughout the nation receiving N.S.F. fellowships for the coming year.

First year graduate students receive \$1400, students in intermediate graduate study \$1600, terminal-year graduate students \$1800, and postdoctoral fellows \$3400. Additional allowances are provided for dependents, tuition and other normal expenses.

Caltech students to receive the awards include: biology and biochemistry, Leonard A. Herzenberg, Lionel F. Jaffe and Robert L. Metzner, Jr.; chemistry, Gary Felsenfeld, Martin Karplus, Arthur Miller and William G. Sly; engineering, George W. Sutton; geological sciences, Robert Stanton, Jr.; and physics, Paul L. Donoho, Marshall P. Ernestine, Roy W. Gould, John D. Sorrels, Edward A. Stern, George H. Trilling and Victor A. Van Lint, Jr.

## That's coming through!

Congratulations on some splendid support, Tech men. Your response to Caltech's blood drive was excellent.

Last Tuesday 130 of us donors flocked to Dabney Lounge, temporarily taken over by many very kindly Red Cross women. Although it was unusual having this hall of art masterworks turned into a temporary infirmary, the crowd there was really encouraging. Thirty of these pints go to our own blood bank; the rest travel to Korea. Four times as many undergraduates contributed to this drive than did in the December appeal.

Perhaps this is due to the long advance publicity campaign conducted by the drive chairmen in the student houses. Announcements were made about the drive even before spring vacation. This advance preparation apparently paid off with more blood contributors. In any event, each contributor deserves and receives our genuine appreciation; and special thanks go to the house and campus chairmen for their prodding efforts.

We know the deepest appreciation comes from the GI in Korea, or the patient among our own group, as he remains alive on your life substance.

With this said, let's have it the same way next time!

## Real gone

Our sterling editors have absconded! This startling discovery was made Monday night after this week's paper had been completed. The writers and everybody else who works on the paper had just finished congratulating themselves on getting the thing done so efficiently (completed before sunup!) when suddenly someone remembered that he hadn't seen the editors around all evening. This was nothing new, but just out of idle curiosity we decided to look into the matter further. Apparently last week's mud-slinging campaign via the Tech's Letters to the Editors column was too much for them; they have skipped town and were last seen heading for Sun Valley.

In their absence we have tried to take over, so please excuse us if something comes out printed upside down. We are hoping they'll be back with us next week — Egad!

The Staff.



She is NOT a specimen!  
—Lunan (Biologist)

### Gentleman Adventurer

Fleming's own combination Til Eulenspiegel and Baron Munchausen, Bill Davis, dumfounded the girls and boys again this week. Crashing high society at the dinner exchange at Grace Scripps Hall out in Claremont, Mr. Davis was to be seen handing out the same old stuff we hear in Fleming Lounge. He so impressed a local San Marino peasant girl that he got a date with her for the ASCIT weekend. Quoth Davis re the Mobilgas Run, "Well, you see, next week I'm taking off to Sun Valley for a few days of skiing and swimming. On the way up, of course, I'm stopping off at Reno . . . No, I'm not flying this trip. We're going up in a Packard. This year's Clippers are really a nice little car, etc., etc., ad absurdum, ad nauseum.

### Medium Rare, Eric?

Saturday night saw a deeply spiritual Fleming group attend a highly spirited off-campus seance. Bud LeTourneau was the seer and called forth seven or eight varieties of domestic and imported spooks to entertain and frighten the patrons. Medium LeTourneau was in command of the situation until about

three hours before the witching hour, when Eric Ward dashed out of the room carrying his screaming woman snugly in his arms (to save her in another part of the haunted house).

### When in Throop—

As when the Roman's attended the Sabine Picnic and dragged off the Sabine women to Rome, so did Kliegel, Tyler and Davis attend the Throop Club exchange and bear back three nymphs to the Fleming soiree. Davis, making the best of an analogous situation, ended up in Brookside Park.

### Laurels to—

To Bernie Schweitzer goes the stellite plated shovel for the most fantastic story of the week. Bernie, going stag to the Fleming-Dabney barn dance, ran into the Mountain Oaks parking attendant who, noticing his sad plight, offered the use of his daughter for the evening. Despite his usual reluctance to associate with the opposite sex, B.S. accepted the offer. Sole comment from Schweitzer was "not bad" (this should amuse anyone who has seen what Bernie calls "good").

### —The New Administration

Quickly mastering the intricacies of politics, Moose Henderson is now sporting a super hyper-customized (i.e., no trunk handle) '48 Plymouth coupe. It is rumored that Van Hoven's chateaux Cad convertible is arriving soon. So comforting to know that one's ASCIT dues are going to such a worthy cause.

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## California Tech

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The Blacker House Waiters (?) Union, showing its true cameraderie, celebrated waiter (?) Nichols' birthday by singing a novel new song tentatively titled, "Happy Birthday To You, Dear Al." Our friend decided that submission was the best course, and unresistingly awaited the baptismal ceremonies. The troops, not being satisfied unless at least one bone is broken per shower, hit upon a plan to add more scenic interest and lashed said waiter (?) to one of the several impervious and unused kindling wood candidates (court chairs) before the water test—it is rumored that even his jacket came out clean.

### Sob!

One of the sadder stories of the week comes from R. Tambling, who claims to have lost his Physics book at last week's exchange—this in itself could be passed off as typical, but said snake blithely announced it to the assembled ghouls\* at lunch. Ex-poop Ernest and others of the same kind narrowly saved our friend (?) from his richly deserved fate although it is claimed that his shoulders would have saved him.

\*—(One who eats decayed flesh).

### Slob!

Blacker's --- (Mob Explosion) party was a complete success Saturday (and part of Sunday)—it claimed about 25 couples from Blacker, 5 female escapees from the Throop exch., several extra-house pairs, three waiters, and Trapnell. It is not clear what Trap's function was, but it is rumored that he was snaking for BF 1c (freshman course). Unfortunately, he couldn't seem to get by the entrance examination with Beuf's date (for those who don't believe in miracles, that was a blind date!) (sometimes termed, "falling in") and was forced to prowl around the dining room for more appreciating bait. The next Monday, however, Frosh Trapnell congratulated Beuf at lunch on the dance . . . gosh, ain't love grand!

(Continued on Page 5)

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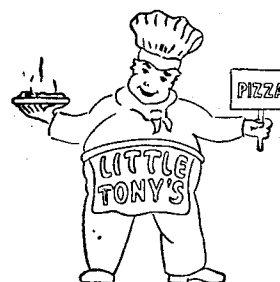


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## Honor system reemphasized

The following letter from the Board of Control, approved by the Student Faculty Relations Committee, was sent to instructors in undergraduate courses.

**Dear Instructor:**

We at Caltech have an institution which we feel is quite unusual: a functioning Honor System. This system is not a law but a philosophy, a way of doing things. This makes it more suitable to our type of student body, but less structural and therefore more difficult to keep in operation.

Under the Honor System, each student is placed on his honor to do his work honestly and, in the best interests of the preservation of the system, to report to a student enforcement group known as the Board of Control all suspected violations of the Honor System. This last obligation is not looked upon by the students as an onerous one, because they know that they are thus protecting their privilege to be trusted and to do their course work and take their examinations on a mature basis. Students at Caltech can be trusted in examinations, in class and home work, and in verbal matters.

As an instructor, you, too, benefit by the Honor System. Unproctored class and make-up examinations mean less worry for you; the opportunity to administer home tests saves you class time important for getting the points of your course across to the students.

If the Honor System is to continue to function smoothly, the students must know what their obligations are to their courses and tests. It is here that you can help. If you tell your students what conditions you impose on their work, they will find it easier to live under the Honor System.

With this in mind, we have prepared a list of statements and questions which may suggest to you what your students should know about the requirements of the courses they take. These have been prepared after a consideration of the circumstances which seem most liable to produce student difficulty and to require instructor clarification.

1. **Homework:** Special attention should be given to policy in homework. May the students work together, share ideas, copy, or what?

2. **Lab Reports:** Keeping in mind the fact that lab reports are on file in all the student houses, how much original work do you require on a report?

3. **Humanities Themes:** Use of references, critical works, or themes composed by students in previous years should be commented upon.

4. **Home Tests:** Make specific the books allowed for use, the time limit, and the number of sittings permitted for completion of the test.

5. **Time Limit on Class Examinations:** At what time must work on the exam be stopped? (It is expected that instructors or their representatives be present at the end of the specified time to collect the papers.)

The instructor is given freedom concerning what level of independent work he requires of his students. But it is up to him to make clear to them what this level is.

In connection with this discussion, it is appropriate to remind you that it is your

## MEZZANINE by Benzadrine

Some lousy intellectual on campus looked up the correct spelling of "benzedrine" in Webster's unabridged—this colyunist merely wishes to state that neither Abbott Laboratories, nor Parke, Davis & Co., nor Merck Incorporated can force an individual's name to conform with that of one of their products.

### Sorb Story

This week's literary laboring could best be titled "The Sorb Story"—more precisely, it is the story of one of the finest publicity schemes ever run in this newspaper. Back in February, 1948, the ASCIT dance was planned to be a costume ball, with the overall theme being the mythical country of Lusatia (locally known as Lausitz) and its inhabitants, the Sorbs.

### Continental Costumes

The idea in general was being plugged on Hawthorne's KXLA radio program, and this dubious celebrity was the judge at the final costume contest. Costumes were described as follows: "Girls in Lusatia dress in peasant costumes, slinky Mata Hari outfits, and whatever else comes in handy to cover the bare essentials. Their attire is mostly functional and does not hamper the influx of Lusatian population. Sorb men wear military uniforms, diplomatic attire, and fine European tailoring of the leather breeches and Tyrolean hat school."

### Publicity Scheme

A series of news flashes and photos were run in four successive issues—the flashes (coming from Jockdorf, the capital) concerning hopes for liberation

obligation to report to the Board of Control or to the Deans any violation of the Honor System you may observe among your students.

Very truly yours,  
The Board of Control,  
George Johnston,  
Chairman.

from the Lusatian Kumanist Party, led by Bonstorb Mnop, erstwhile Minister of Public Morals. A map of Lausitz was included, showing the two provinces of Nieder Lausitz to the north and Ober Lausitz to the south, in addition to the peasant communities of Gorlitz, Finsterwalde, and Zangengrass. Then ten or eleven photos of Sorbs in their native costumes in typical poses were strewn throughout following editions to illustrate the local costumes and mannerisms.

### Big Assembly

The final big pre-dance display was an assembly in Culbertson featuring a drama of "factual" Lausatian history. To quote again, "This play depicts life in Lusatia from the time of Otto I, through the blunders of his son, William the Bastard, who became Archbishop of Mainz; the meddling of King Henry the Fowler; the intrigues of Pope Agapetus II; and the disposition of Lusatia at the Congress of Vienna (1815). It ends with the revolt of Lusatians against the domineering powers." (To be continued).

### Gad, Dad!

Customer: "Do you have any notions on this floor?"

Floorwalker: "Yes, Madam, but we usually suppress them during working hours."

There's quite a legend about the man on the flying trapeze who caught his wife in the act.

## Learn to sail; Guests encouraged

by Jerry Royce

The Caltech Sailing Club, that San Pedro annex of Caltech, is in the midst of a campaign for additional members to its exalted ranks. "Me, sail?" you ask, "are you kidding?" No, I am not. I guarantee you that if you can read this article, you can learn to sail within four weeks, if you go down at least once each weekend, Saturday and/or Sunday.

For the small membership dues you pay, you get: the use, when a skipper, of one of six 13-foot Glasscat dinghies, or one of the two beautiful 17-foot Falcons; wonderful surroundings; a chance to get away from the snake pits for a glorious day in beautiful, sunny San Pedro; and the wide Pacific before you. As the heading to this article implies, you are welcome to bring a female guest along, if you are a skipper. She will enjoy it as much as you will, and it is a cheap, but good, date.

If you would like more information, contact any one of the following newly elected officers: Phil Birkeland, Commodore; Dick Manley, Vice-Commodore; Dave Workman, Rear Commodore; Harvey Frey, Secretary; Van Bluemel, Treasurer; Bob Herzog, Port Captain, and Jeff Tucker, Race Chairman. Remember, see these men or any other member about joining.

## Frosh lunch club forums this term

The Frosh Lunch Club got off to a running start this term. Its new officers are: Dick Lawrence, president; Tom Bergeman, veep; and Bill Purves, secretary-treasurer. It is hoped the new regime will be less corrupt than the infamous Benning administration.

### Coming Speakers

Future attractions are: Work in an Industrial Laboratory, by Mr. E. O. Slater, May 7. On May 14 Dr. James C. Bonner dissertates on the Why, What, and How of Mountain Climbing or, more appropriately, how to imitate baboons using a rope. If two-dimensional movies bore you, there is still hope—come to learn about Three Dimensional Movies, by John Scott Campbell on May 21, and last, but to be sure not least, May 28 Dean Jones will stir us to a frenzy of pride by giving his memoirs, "As I Recall It," a lurid account of pranks, practical jokes, and other farces attributed to Techmen of our golden past.

Don't miss the training table on Thursday noons. It is entertainment for all.

### Gadzooks!

In the days of Old Queen Bess 'tis said, some of the ladies of the court liked to curl up with a good book, while others preferred individual pages.

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**OUTER SPACE**

(News from Other Schools)

Two universities, one in America and the other in England, have recently experienced panty raids in reverse—with the girls being the raiders.

At the University of Toledo, 35 girls raced through the men's dormitory, startling half-dressed male students and stealing pairs of shorts, as they stormed from one room to another.

And in England, six girl students at Cambridge University,

having vowed to take baths at each of the men's dormitories in turn, are already reported to have been successful in two male dormitories.

In each bathroom the intruders have left their club's insignia—a single silk stocking.

**High Standards**

You have to know how to write if you want to graduate from Michigan State College. A new ruling there states that seniors can't graduate until their "writing technique is improved to a point where they can write legibly."

**With Clarity Toward None**

This piece of progressive dialogue seems to be going the college rounds:

Frosh: What do you mean by slinging the bull?

Sophs: To sling the bull is to

say little in a great many words so as to prevent the professor from realizing that you are saying nothing.

Junior: To sling the bull is to say little in a great many words so as to give the impression that you are familiar with what the test is covering.

Senior: To sling the bull is to say as much as possible in well-chosen words so as to convey the impression that you are familiar with the material under examination in spite of the fact that you have been unable to devote sufficient effort to study adequate an unduly difficult assignment.

**All-American**

An American history prof asked for a list of the eleven greatest Americans. While the students wrote, the teacher strolled around the room. Finally he paused at one desk and asked the youth if he had finished his list.

"Not yet," said the student, "I can't decide on the fullback."

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**BASES FULL.** Fat part of the opposition batting order coming up. The manager needs a new pitcher—fast!

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**Bell Telephone System**

**3400° C solar furnace sizzles asbestos on roof of Robinson**

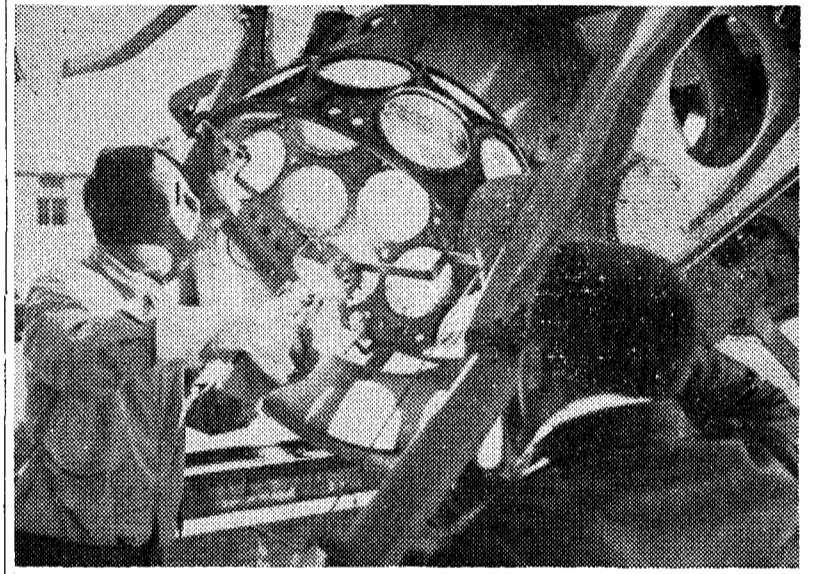
by Byron Johnson

The slender rod of alumina, one of man's best refractory materials, momentarily glowed with white heat and then, in bright drops, sizzled to the concrete floor. The steel helmeted and white cloaked technician stepped back as one of his asbestos gloves began to smolder. At the common vertex of the nineteen cones of heat, air boiled in confusion.

Thirty four hundred degrees Centigrade, over half the estimated surface temperature of our sun, is hot enough to make just about anything on earth boil in confusion. The Caltech solar furnace, part of the Mount Wilson and Palomar observatory system, has just recently, after collecting dust for twenty years, been put into useful service. Designed by Russell W. Porter and constructed in 1933 at an estimated cost of \$150,000, the furnace is mounted on the roof of Robinson Laboratory of Astro-

are focused at the center of a 28 inch hemisphere by 19 seven inch lenses mounted in the hemisphere. The image of the sun from each lens system is three eighths of an inch in diameter. The entire system is mounted equatorially so that the synchronous motor drive will, after an initial setting, keep the main lenses pointed at the sun. The perfectly balanced moving parts alone weigh two and one half tons. A system of covers in front of the mirrors enables the operators to use one, seven, 12, or all 19 lenses at once, as the problem demands. Proof of the care taken in constructing this instrument is the fact that, at night, using only the center system, an image of the moon, showing its craters clearly, can be projected. When not in use, the furnace is protected by a sliding canopy.

At present basic research in high temperature refractory materials, especially in connection



**Wyman and Benjamin at Work at Focus**

physics. The Caltech solar furnace is the largest refractor type in the world. There are 19 main lenses, each 24 inches in diameter with a focal length of 10 feet. The heat rays collected by the main lenses are, with exception of those from the center lens, reflected by 18 flat mirrors and

with jet engines, is being done by Dr. Pol Duwez, ME professor, with the assistance of physics seniors Charles Benjamin and James Wyman. They have melted zirconia (melting point 2650° C.), which indicates temperatures of at least 2700° C., but have not yet succeeded with thoria (melting point 3000° C.). Full capacity cannot be reached until next summer, when the sun is almost directly overhead at noon, so that its rays lose less energy to the atmosphere. Also, at the present time two lens systems cannot be used because of the relatively small angle of elevation of the sun, cutting off a considerable amount of energy. Calculations indicate that next summer a temperature of 3400° C. should be reached. However, the present record is at least

(Continued on Page 6)

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# Spikers show power in SCIC finals prep

## Tyler, Kliegel favored in Jump, Hurdles

In preparation for the Varsity SCIC track meet Tuesday, April 21, Caltech easily won a four-way meet with Chapman, Cal Poly, and Westmont. Taking 75 out of a possible 150, the thinclads placed at least one man in every event. Leading the way was Tyler with places in four events and Kaiser with two wins. Kliegle, Munn, and Hodges accounted for most of the other points.

### Oxy Favored

The dope sheet tags Occidental for an easy victory in the SCIC track meet but with some closer races than there have been in former years. Oxy is not quite the powerhouse it used to be, but can still give such teams as SC and Stanford a run for their money. In addition, all of the other conference teams sport men who can take the Tiger skin to the cleaners in their particular events.

### Tyler and Kliegle

Russ Bonham, the Flying Poet, is favored to take both the mile and 880 if he enters in either. Bonham is the best distance man in the Southwest and sports

times such as 1:54 in the 880 and 4:15 in the mile. Redlands Rudy Valdez is favored in the shot and discus, and Pomona's Anderson should take the low hurdles. Tech's Tyler is favored in the broad jump, as he has the best mark of 22 ft. 3 in. Kliegle is favored on past record to take the high hurdles.

### Frosh Second

The freshman conference meet will take place this Friday with the best frosh team in the country—Oxy—heavily favored. On past record Tech should take second, using the ballistics of Conley, Peters, Lewis and Co. The meet will be on Friday afternoon at Pomona.

# Oxy upsets Tech 64-60

The Caltech swimming team surprised everyone last Friday by nearly scoring an upset win over a favored Oxy team. The final score was unexpectedly close at 44-40. The best race of the day was the final relay, after Oxy already had the meet won. Kroesche, Oxy's anchor man, overcame a large Caltech lead but couldn't quite make up the whole distance, with the Beavers winning by inches.

### Pomona Favored

The times were all slow, indicating that Pomona, with almost all of their swimmers back from last year's first place team, should have little trouble winning the Conference Championship again this year.

There was no Frosh meet because Oxy could not field a team.

### Results:

- 150-yard medley relay—Occidental, 3:41.9.
- 220-yard freestyle—Kroesche (O), Perdigao (CT), Wyman (CT), 2:32.9.
- 50-yard freestyle—Wallace (CT), Mitchell (O), Stofel (CT), 27.2.
- 100-yard individual medley—Haire (CT), Ensign (O), Patton (O), 1:09.8.
- Diving—Dreibelbis (O), Delaney (O), Barnes (CT).
- 100-yard freestyle—Wallace (CT) and Wyman (CT), Mitchell (O), 1:03.2.
- 200-yard backstroke—Miller (O), Roberts (CT), Corver (O), 2:55.6.
- 200-yard breaststroke—Norman (O), Ellett (CT), Parker (O), 2:52.9.
- 440-yard freestyle—Kroesche (O), Perdigao (CT), Parker (O), 5:35.2.
- 400-yard freestyle relay—Caltech (no time).

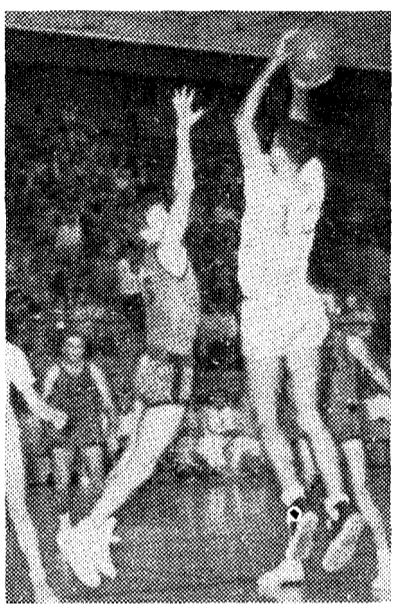
## BREWINS

(Continued from Page 2)

### Lord!

Pope Enright came through as expected and excommunicated four more lost souls, among them Spence, whose master plan for success seems to have gone

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Jim Tyler, Tech all-around athlete, will compete in the Muir Decathlon. Jim is shown here helping beat Redlands in SCIC action.

# SCIGT big golf test

The major event of the '53 golf season will be on this Friday as the best teams in the south compete in the Southern California Intercollegiate Golf Tournament. This year the tourney will be held at Riverside. It is 36 holes of medal play with the four best scores making up the team score.

### SC Favored

Southern Cal is favored to cop the tourney with Pomona and San Diego State fighting it out for second. UCLA and Occidental are not far back. Caltech, Loyola, and Santa Barbara will also be in there among the leaders. Don Turcotte, ninth in the individual ranks last year, will lead the Tech swingers.

awry, but ten cigarettes will get him back in the church (at a buck apiece!)

Jim then cardinalized Stefanides to replace the erring Peyton, but someone pointed out that Stef already held the position of asymmetrical posterior and was hardly a suitable choice. Ogilvie and Neil then told lies about each other until finally both declined the office for reasons of slow reaction times at

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# Coming attractions

- Tuesday, April 21—Varsity Tennis, Muir at Caltech.  
Varsity Baseball, Muir at Caltech.  
Varsity Track, SCIC All-Conference at Oxy, 7:30 p.m.
- Wednesday, April 22—Varsity & Frosh Swimming, Whittier at PCC.
- Friday, April 24—Varsity Golf, Southern Cal Tourney at Riverside.  
Frosh Track, SCIC All Conference at Pomona, 3 p.m.  
Varsity & Frosh Swimming, Caltech at Redlands, 4 p.m.
- Saturday, April 25—Varsity Baseball, Caltech at Pomona.  
Frosh Baseball, Pomona at Caltech.

# 'Dog no-hitter upsets Frosh

by Tansey

Caltech's frosh baseballers lost their first game Saturday, but it took a no-hit effort by Redlands' David Farmer to turn the trick. Caltech's only possible claim to a base hit was a wild bouncer hit by Phil Conley in the third inning. It went into the Tech scorebook as a hit but the Bulldog scorekeeper, who had official say, called the blow an error and so it will stand.

### Spirit Dies

The Beavers lost the ball game in the first inning when Redlands scored twice on two hits, a walk, an error and a passed ball. All the fight seemed to go out of the team. The infield chatter died, they quit encouraging batters, and their fielding went from bad to ghastly. In all, the men from Tech seemed to have had the idea that Weymann would do it all and when it became apparent that Ray would need some help, they were loath to give it.

### Errors

The Orange and White committed seven errors, six of which led directly to Redlands runs, since the men from beyond San Bernardino had only three of their seven runs earned and chalked up but two R.B.I.'s. The great number of enemy scores came from Tech miscues of one sort or another.

### Care!

Even Weymann, while striking out eleven, did not seem to care one way or another whether he won or lost.

The team consensus seems to be that they will beat Redlands in the second game, which will be played here. This may be true, but if they do not show more spirit than they did Saturday, they can kiss their title hopes good-bye!

	R	H	E
Caltech	001	000	000—1 0 7
Redlands	202	000	21x—7 9 2

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# Frosh netters knock Oxy

Continuing along the winning standards which seem to be the rule with frosh teams of late, the Tech freshmen wiped out Oxy last Wednesday, 9-0. Coming after the win over Whittier, 7½-1½, two Saturdays ago, this puts Tech into leading contention for the league title. Only powerful Redlands will offer stiff competition for the Beaverbabes.

### Barnes Leads Way

Gene Barnes, playing better tennis than has been seen from him up to now, took the measure of Oxy's Reynolds, 6-3, 6-1. Barnes teamed up with Jim Ball to win the first doubles, 7-5, 6-1. No match went the full three sets as Tech had it sewed up after the first few games. Al Poinsner's match was the quickest as he disposed of Wilson, 6-0, 6-1. Toughest match was the second doubles where Poinsner-Goldenberg beat Wilson-Kinnett, 6-4, 8-6.

### Easy Does It

This week is rest-up week as Tech prepares to go on the road and gain some repeat victories.

### Varsity Loses

Caltech improved over last time but still lost to Pomona, 7-2, in a tennis match held at Pomona. Rol Moody and Gil Beebower saved the day for Tech as they won, 6-2, 6-3; and 5-7, 6-4, 6-0. This week Tech draws a blank as they rest up for the Conference tourney qualifying at Pomona next week.

Rumor from Darbland hath it that Lupe Ellmore may be the Dirtiest Man in the Student House, but he certainly is not the Funniest.

### Tales of a Wanderer

Chagrined at the untimely demise of their proposed Theater Party, many Darbs sallied forth to the land of Throop, where the inmates were engaged in an overloaded exchange. Knowing that the off-campus

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# Athlete of the week

by Whittaker

The Athlete of This Week at Caltech is Gorgeous Jim Kliegle. **Shotgun Jim**

Jim was scared by a shotgun in high school, and he's been running ever since. He began it all by winning a varsity track letter while in high school. At Caltech he's won a frosh letter, and two varsity track letters. He's a sure bet to get his third letter this year. Jim's specialty is the hurdles; but he has done some relay work as well. Jim has done a great job on the hurdles this year and he's definitely one of Bubus' best boys.

### 15.2 High Hurdles

Jim believes that he ran his best race at Whittier last week. Now that his career is closing, Jim had this comment to make, "I've been running nine years, but starting tomorrow night I'm beginning a long life of dissipation." This interview took place last Monday.

### Eligible?

Jim is another eminently eligible Caltech bachelor, being a senior, 6-foot-2, 150 pounds, and single except on weekends.

# Tech taken by Redlands

Playing the best ball they have all season, the Tech baseball squad lost a tight game to Redlands last Saturday. Redlands, undefeated this year, was virtually handcuffed by John Winslow, except for a few crucial hits made by the Bulldogs in key situations. The final score was 4-1. Bob Pechacek led the Techmen with two hits in four AB's.

boys were having a hard time taking care of so many lovelies, the considerate Dabneyites spirited many away to the less-crowded environs of Blacker.

### Sound Off

Always alert to new prospects, Dabney came through again with the introduction of the Dabney House Chowder and Marching Society Band. Not wishing to have Ricketts leave the football game in an evil frame of mind, the melodiers produced sweet music to soothe the savage beasts.



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### WAGGIN' WHEELS

by John Dresser

In response to popular demand, starting this week there will be a road test of a sports cars in this column. The first in the series will be a Mark VII Jaguar. We hope to have in the near future reports on a Healey, an XK120-M, and perhaps a Ferrari.

Readers may question our picking foreign cars. Although American cars are fine for transportation, they are related to sports cars as a coal barge is related to a sailboat. In other words, the writer prefers to test foreign cars.

#### The Jag

The Mark VII Jaguar is a luxury sedan powered by a unique 160 BHP overhead-valve six-cyl-

inder engine having dual overhead cams. The engine is equipped with an electric choke which makes cold-weather starting quite easy. After warm-up, there is no noticeable vibration even at 5500 RPM, the recommended maximum.

#### Transmission

The transmission is four-speed synchromesh. Hydramatic is optional, but is NOT mandatory. The model tested had a manual transmission. Acceleration to 70 is average, about the same as an American car in the low-price class. Above 85 it will take a Chrysler or Cadillac. At 90 MPH there is no road shock and no vibration. This seems to be the ideal cruising speed (in states that have no speed limit!) At 100 the wind has a slight effect, and at 110 there is noticeable sway.

#### Comfy

The interior is leather with very comfortable seats; far more comfortable than the writer's Oldsmobile. The Jag is equipped with dual gas tanks, with inde-

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### MUSICAL SHORTS

Stanley Grotch

This time of year each community in the United States takes stock of its musical affairs the past year, and looks forward to the coming season. In Los Angeles this year the music picture was not too encouraging. I think it is becoming all too apparent to the musical public that orchestra alone will not attract audiences, judging by the few solo appearances of the orchestra under Wallenstein.

#### Wallenstein Not First-Rate

If we face facts, most people versed in music will admit that Wallenstein is not a first-rate conductor. Although being harsh, many place him on the level

pendent feed set-ups that eliminate emergency fuel pump repairs in embarrassing places.

\$4200

One unfortunate note — the crankcase contains 15 quarts of oil which should be changed at least every 2000 miles. This, however, is not too bad considering the car's performance in relation to a Cadillac. The Jaguar salon (sedan) delivers in Pasadena for \$4200. This is equivalent to an Oldsmobile.

of Howard Barlow, who conducts the "Voice of Firestone" on TV. It seems that Los Angeles, one of the largest cities in the country, must be content with a conductor and orchestra comparable to those of many smaller cities.

This summer, as in the past, the Los Angeles Philharmonic Orchestra, without Wallenstein, will appear in "Symphonies Under the Stars" at the Hollywood Bowl. To those of you who leave the smog for other parts of the land in summer and have never heard these concerts, I can only say you are missing an unforgettable musical experience. However, as a critic it is my right to criticize. I should like to mention two objections I have to the Hollywood Bowl: the parking problem, and airplanes.

#### Airplanes Also

I believe the parking is largely responsible for the disappearing turnouts the past seasons. It is quicker to park two miles from the Bowl and, with your Saint Bernard and oxygen mask, make the arduous climb on foot. An even worse problem is that of airplanes that seem to seek out the Bowl; the landmark attracts these cultured pilots invariably when the orchestra plays pianissimo! I have thought of setting up a fund to procure

barrage balloons, searchlights, radar, and anti-aircraft weapons.

Seriously speaking, though, the Bowl, nevertheless, offers Southern Californians a wonderful opportunity to hear the world's finest music performed by some outstanding artists.

### Speeding object seen near earth

For ages man has worried about some really large celestial body smashing it to bits. Several weeks ago Dr. Wilson discovered a fast-moving asteroid or minor planet on the 48-inch Schmidt telescope at Palomar, where he is a staff member.

#### Whipping Across

What makes the object unusual is that it is apparently relatively close to the earth because it is whipping across the northern sky at the rate of 5 1/3 degrees per day, which means either extreme speed or relative proximity. As yet the preliminary orbit has not been ascertained, because it takes at least three fixes. It may be some time before seeing conditions permit the other two observations to be made.

#### Similar to Icarus

As things stand, the object is apparently similar to the asteroid Icarus in that it comes close to the sun. Icarus ranges from 22 to 156 million miles from the sun with a close approach to the earth of four million miles. The closest known approach of an asteroid to the earth was that of Hermes, discovered in October, 1937, which passed within 485,000 miles of the earth, or a couple of moons away. The question is whether the latest object is going to get much closer than this?

### Beavers elect

The Beavers, Caltech service club, elected new officers April 8 for the coming year. The new officers are: president, Frank Dryden; vice-president, John Merrill; secretary, Ralph Miles, and treasurer, John Kidder.

The Beavers also elected new faculty and student members. The meeting was at the home of Dr. Richard Jahns.

### SOLAR FURNACE

(Continued from Page 4)

equal to that of any refractor type solar furnace in the world.

The experimenters are attempting to overcome several difficulties. A satisfactory means of supporting the specimens raises many problems, especially when they are molten. Electromagnetic fields, levitation, has been tried by other experimenters, but without success. Protecting the operators and instrument from damage is a serious problem. When the furnace was first tried twenty years ago a specimen of steel exploded, cracking several of the smaller lenses. If the rays of the sun are allowed to come through the lenses obliquely, damage to the mirrors, building, and operators' clothing is likely to result.

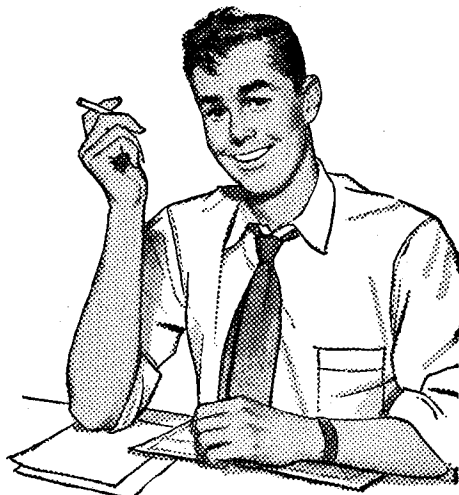
Future plans call for experiments with high temperature air reactions to produce nitric acid. The behavior of metals at high temperature in a vacuum, and other metallurgical problems, will be investigated. Being the best instrument for its purpose in an almost entirely unexplored field, the full capabilities of the Caltech solar furnace can only be guessed at.

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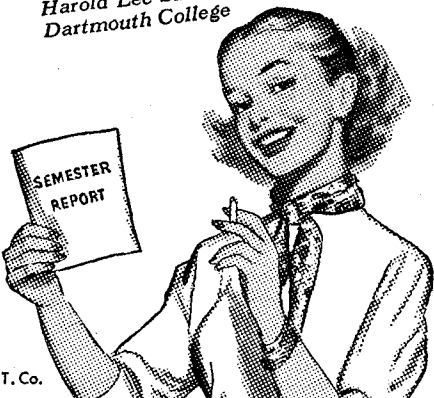
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