New Freshmen Get Money; Still Smarter

This year's freshmen are again "smarter than ever before" and are getting $20,000 more in their physical education ac-
tivity. In keeping with the de-
cision of the Finance Com-
mittee (last of term), the front will be assigned to a specific sport after five weeks. There will be no change to another, covering six sports in the course of the academic year. Chosen as sports in which partnerships will be offered in the planning and activities of Frosh P.E. are golf, tennis, wrestling, weight lifting, swimming and gymnastics.

Frosh will be required to register for and attend one activity three days per week and must register for a different ac-
tivity each term. Intercollegiate and Interhouse sports will be acceptable. Frosh first term will sign the period of participation. Inter-
terhouse will count for use. Anyone who can make a "breather" years were designed

This year's freshmen are

Though the frosh are smarter

in the region that they scored higher than last year's on all the College Board's rigid Com-

They are decidedly fuller in that their predicted GPA is

The specific averages were

This time the frosh will be assigned to one of the seven Houses, and for the first time in four years. The three "breather" years were designed primarily to allow those who

did not go under the old system of two years, as well as to work out a system of rota-
tion for the number of frosh who would be willing to join in the next one to leave, and at the froshmen's desire any conversation can continue down the hall after 9:00 p.m.

Rotation this year is being tried for the first time with seven Houses, as it is the first time in four years. The three "breather" years were designed primarily to allow those who

had gone under the old system of two years, as well as to work out a system of rota-
tion that would work with seven Houses. The "rotation" with the opening of the new house system was suggested in a student committee report to the Faculty Committee on Housing which has received the report of the Committee on Rotation again until last year.

Rules Not Poor

As a "rest year," the rules of rotation will be even less severe this year, with possible penal-
ties for violation by Houses ranging from a $50 fine and possible house restrictions. The regulations, and "spirit," are not unreason-

(Continued on page 3)

Frosh, Sophs Get New P.E. Program

RICHARD KARP

Chairman

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MEALS START SUNDAY

Meals will be served in the Stu-
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Welcome Back Frosh

As our eager trash embark for their two day communion with the land of the living, I would like to express our ardent desire of telling people what's good for them.

One quick word of warning: it is far too easy to sit back at frosh camp and let the words fall in your ear. And far too easy to let the frosh camp fly by without realizing what you have just realized was told to him in those hours at Student Camp. So, for your own betterment as well as the sanity of the speakers, give careful attention to what is said. When you have questions be sure and resolve them there by discussing with them in your student group.

After that somewhat brief departure, it is high time that the California Tech welcomes you to Caltech. Caltech offers you an interesting and unique experience, but it will be a rewarding experience only if you make the effort. And we are not speaking only of your studying effort.

The academic aspect of your Caltech education is, of course, the dominant one. But it is not a complete one, far from it. These four years of undergraduate study will probably be the most influential in your life. So do not neglect the other facets of a mature personality.

Caltech offers a wealth of opportunities to enjoy yourself as well as contribute to your own growth. Such activities as music, athletics, journalism, debating and drama are more than adequately provided for in the Caltech community.

One more word of warning before we let you depart in peace. Believe everything you hear about Caltech from upperclassmen. You can learn a great deal from them if you can discern what is honest and what is trash. Be patient in your first year. You must realize that a few years here will do what the soft sell.

Good Luck!

—Don Green
J. C. Simpson

Libel Is Fun

Now that everyone is sitting around waiting for class to begin, we would like to spend a few lines bringing to the upperclassmen a summary of Tech's record last year, and telling the frosh more about the paper.

The Tech is completely uncensored and independent of the Institute faculty in a period during which the trend seems to be toward more control over college publications. Because this has been definite Tech policy for the last four terms and the editors are strongly committed to continuing this practice in the coming year. We feel that a newspaper which does not offer constructive criticism, which does not reflect student opinion is not fulfilling its duty to the school.

Last year the Tech played an important role in the adoption of the new rotation system (after a three year moratorium on rotation), and also figured significantly in the new two-year school year. The Tech's team had been declared the outstanding men's debate team in Southern California. At the peak more than twenty students were active in interscholastic competition out of a student body of 800. Once at the top, however, there is nowhere to go but down and down we went: the year before last only two students spent ninety percent of the speech budget. That grand promise of the "annual Caltech invitational debate tournament" hasn't been met.

Now our fortunes are again on the up. Last year a total of eleven students participated in some interscholastic contest and the number of contests has increased (on a smaller budget) roughly eight times. In a total of 230 rounds of participation, Tech accomplished with the record of nine seventy-one percent, making debate the winner of the debate contest.

Because the analytical mind required of a Tech student is the same as the winning debating skills of a Tech debater, it is clear that Tech offers a wealth of opportunities to enjoy yourself as well as contribute to your own growth.

Many Faculty Get Promotions

Nine of the faculty have been granted promotions during the summer. Although there are no new professors, there are a number of new Associate Professors. These include: Bruce C. Murray, Planetarian Science; Giuseppe Attard, M. D., Biology; the service from the shop; Robert S. Edgar, Biology; Robert A. Wier, Aeronautics; and Toshi Kubota, Aeronautics; and Millon Leach, Mathematics.

Several Research Fellowships are Hans E. G. Kofler, Physics; David McGowan, Radio Astronomy; W. G. Pratcher, Engineering; J. J. White, English; B. K. Nobelman, Chemistry.

Promoted to the position of Assistant Professors are: Fred E. C. Calle, Jet Propulsion Laboratory; Don E. D. Shelnish, Engineering.

Letters

Vending Machines Go Bad; Debating Bogs Attention

Editors:

What the hell is going on? These old-fashioned, noisy machines is as bad as ever, or I should say, they are worse. It seems that people don't care about their Caltech concession, even though they are getting their fair share of profit from these machines than from many others. Although the Hershey bars, unfilled sodas, all are evidence of the no-cash-all they do, they think that after a year of bad service and no complaints from the students, this company should lose the concession and go to some other company that is more reliable.

Rodger Whitlock

Editors:

In 1965 the Tech carried in unusually large headlines the story of the new Caltech team's team. The team was declared the outstanding men's debate team in Southern California. At the peak more than twenty students were active in interscholastic competition out of a student body of 800. Once at the top, however, there is nowhere to go but down and down we went: the year before last only two students spent ninety percent of the speech budget. That grand promise of the "annual Caltech invitational debate tournament" hasn't been met.

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Glee Club Begins Auditions; Exciting Year Anticipated

The Caltech Glee Club, one of the most active student groups on campus, has been around for almost fifty years. The club as it now stands really had its start in 1913, when Ralph F. Bardenberg was director. At that time the Caltech Glee Club was generally known as the "Big T" (for being good), to criticizing such eminently successful organizations as the Blue and White College Pilfering, $2,600; Stanford University, UC Berkeley, U.S.C., and UC San Diego, which received the same amount. Especially forgotten are the many members of the Caltech Glee Club who have been in the field...
Four Faculty Members Die During Summer Months

Caltech lost several of its most distinguished staff members over a three-month period this summer. Dr. Howard J. Lucas, professor emeritus of organic chemistry, succumbed June 22 at Huntington Memorial Hospital of a heart ailment. Retiring in 1952 after 42 years as an instructor, Lucas pioneered the pattern for modern elementary chemistry textbooks with his Organic Chemistry. He was one of the first scientists to apply knowledge about the electron to this subject.

Mr. Robert L. Minckler, chairman of Caltech's Board of Trustees, died of a sudden heart attack August 6 while on vacation in Banff, Alberta, Canada.

Plans Drawn For Library

After approximately five years of waiting, plans have finally been produced for the Millikan Library. A model has been constructed and is now on display in B & G. The building will be somewhat longer in the east-west axis than the north-south axis. Between the Library and Throop Hall there will be a shallow reflecting pond, which will be bisected by a small, arched bridge. There will be a small circular pavilion connected with the main building by a glass-walled corridor. The pavilion, which for some strange reason resembles the Beckman Auditorium, will be used for meetings by the Board of Trustees. The Library proper will be ten stories high with curtain walls on the north and south sides. The east and west walls will be windowless. Working plans are now being drawn up, and it is expected that ground will be broken in about one year. It will be located in the eucalyptus grove between Credlin and West Bridges. Being ten stories high it will probably be the tallest building in Pasadena.

Frosh Rotate (adapted from page 1)

creations and actions can be condemned (other than such items as spending money on a freshman, which has few exceptions) if they are done with the positive support and on the request of the freshman concerned. Froshmen should remember that it is their responsibility to take care of themselves and their personal and academic affairs. As the system for assigning freshmen to Houses is also fairly complex this year. The reason for this is to guarantee that as many freshmen as possible get into one of the Houses to which they apply. The complete system is detailed in a five-page memorandum from last year's HLC (Interfraternity Committee) to the Faculty Committee on Student Houses. This memorandum contains possibilities (such as the selection procedure being hinged down in a complete circle) that are considered fairly unlikely in an attempt to handle all cases for the benefit of the freshman. As has been indicated, the success or failure of rotation this year will be the deciding factor in whether it is retained.

ARE YOU AS READY FOR THE FALL TERM AS YOU THINK YOU'RE READY FOR THE FALL TERM?

Check off the items: Raccoon coat. Stutz Bearcat. Beanie. Bank of America Checking Account... Bank of America Checking Account...

Naturally! It’s the safest way in the world to pay bills (the cancelled check is your receipt). It’s the perfect way to keep track of funds. And it’s economical!

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PASADENA, 170 SOUTH LAKE AVE., STE. 5-5888
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Day or Evening
Free Trial Lessons

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in concert
JOAN
BAEZ
HOLLYWOOD BOWL
Sat., Oct. 12
Tickets available at box office and at all American Mutual Agencies
$5.50, 4.75, 3.75, 2.75, 1.75

KEUFFEL & ESSER CO.
Hoboken, N.J.

in just one year the trend is clear...
By Steve Schwartz

One of the seven golden keys to brewing Budweiser:

WORLD'S GREATEST BREWMASTERS

Brewing beer is a blend of art and science, calling for a skill which Budweiser brewmasters have exhibited for more than 100 years. One more of the seven special things we do to make your enjoyment of Budweiser even greater!

KING OF BEERS • ANHEUSER-BUSCH, INC • ST. LOUIS • NEWARK • LOS ANGELES • TAMPA

Now, a cotton sock that stays up as late as you do

Kick up your heels in the new Adler Shape-Up® cotton sock. Nothing gets it down. The indomitable Shape-Up leg stays up and up and up in plain white, white with tennis stripes, or solid colors. No matter how much you whoop it up. In the air, her Shapette, 69¢, his Shape-Up, 85¢.

By Bob Liebermann

What Went on This Summer

Summer is a good time for entertainment in Los Angeles and a good time to see some summer films. Some kind of summer optimism gets into the local ‘little theaters’ and they go into business again. The UCLA Theater Group — which is the only reliably good theater in town — is at work in its borrowed lecture hall. Nobody in his right mind would stay here in summer, of course, but if you have to, there are plenty of things to do.

At least one film of real importance appeared this summer, and that’s Viridiana made by a director named Bunuel in, of all places, Spain. Viridiana herself is a woman who wants to do good, and the moral, typical of the “new wave,” is that you can’t. Depressing or not, the theme is large enough to build a work of art on, and I’m tempted to say that Viridiana does it justice. Symbolism, particularly, is used with skill, neither obscurely nor heavy-handedly; a choice example is in a scene where a pack of beggars are waiting food at a banquet table, and the cutting room throws in the briefest glimpse of Leonardo’s Last Supper. The sound track, which usually contributes nothing even in good movies, makes good use of Bach and Handel. The climactic scene is an awesome witches’ Sabbath: a dreadful revelation of man’s rotten inside, all the more dreadful because Bunuel makes you believe it. Yet the result is not depressing after all; one feels he has learned something of importance.

Other Films

This Sporting Life, a British film by Lindsay Anderson, was something of a disappointment. Regardless of good reviews, it’s just more of the self-pitying Middle-Gothic Britain the British are grilling out these days. The central figure is a bulking rugby player, and you might say the film is about dentistry — he spends all his time getting his teeth knocked out. It is among the goriest and gloomiest movies I’ve run across. And while we’re talking about international films, let’s see something called King Kong Meets Godzilla which was made (too kidding) in Japan, it’s the worst movie I’ve ever seen that didn’t have John Wayne in it.

Something interesting along another line was a performance of The Marriage of Figaro in English, down at Laguna Beach. I’d never heard opera in English before, but now I’m sold on it. It’s true that the familiar arias sound strange in translation, but when people tell me that English “is not a poetic language” and consequently can’t sound well when sung, I’m inclined to disagree. After all, The Messiah sounds pretty good. It may be that it’s hard to make a good opera translation; a good one, of course, must not only be poetic, but also preserve the nuances of the original, which were mated, syllable by syllable, to the score. But on the other hand, the gain in comprehension is worth the effort. Mozart opera can be monumentally dull in Italian; they are pleasant, but the recitatives send you to dreamland. Now in English one can follow the intricacies of the plot, and laugh at the jokes. And to our surprise, opera seems no longer to be an esoteric kind of music, but rather (as I think it should) a kind of theater. I’ve heard that on some occasions, lacking a good translation, operas have been sung with the arias in the original language and the “connecting tissue” in friendly old English, so one can understand. That seems like a good idea.

“Art at the Museum”

Summer being the silly season, the L.A. Country Museum presented an exhibit of “pop” art.

(Continued on page 6)

Now, a cotton sock that stays up as late as you do

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Pace Setter

Bob Liebermann

depends on

ADLERS

Rob Liebermann says:

“Adler’s cotton ’Shape-ups’ earn their claim to fame. They really stay up! It’s the only way to be sure you’re ‘clean white sock’!”

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Fencing Added
BY WALLY YEVRYSKY
One of the latest additions to the P.E. curriculum, the Caltech Fencing Club could be a valuable place to invest a few of the proverbial (and, note: yet, entirely mythical) thirty hours of free time you have each week. The sport has changed somewhat since the days of D'Artagnan — modern fencing is more closely related to chess than to the movie variety of swashbuckling — and the resulting of fair damsels plays an unfortunately small part in it. There are, however, still some competitive outlets.
In addition to fencing within the club, the APLA (Amateur Fencers' League of America, a division of the AAU) holds about thirty events in the L.A. area each year for both individuals and teams. Many of these are classified so that you are competing only with fencers of your other Caltech also hopes to have an intercollegiate team starting sometime this year which would hold matches with existing teams at UCLA, USC, Valley, El Camino, Pomona, and several other schools.
It seems to meet at least twice a week and is instructed by Mr. D'Artagnan, Calvert, master of a school for fencing masters in Europe, taught for several years in the French Foreign Legion before coming to this country and was decorated by the French government for his work there. He has recently opened his own school in L.A. and is considered by many to be the best instructor in the area.

Tech Offers New Kickbacks

Student who obtain ads for publication in the California Tech from local businesses will henceforth be entitled to a fifteen percent commission, about $2.10 per column inch, payable by check. The purpose of this plan is to increase the number of local ads in the California Tech, and thus the margin above should also help put up the price operation on, of course.
Those interested should see the Tech News editor George Paper, identification, and other necessary forms, as well as any other details.

Tech's young eager footballers practice calisthenics in preparation for tough schedule.

Football Practice Begins; Tough Schedule Ahead

Full football practice began nearly two weeks ago, on Monday, September 16. Despite a few late arrivals and a few "golden boys" who have yet to return, the full turnout was quite encouraging, with twenty to twenty-five men appearing for night practice the first week.
Practice this year has followed a tougher schedule than in the past. In addition to the daily double practices on weekdays, the weekends were also lived up with additional drills.
"The coaching staff remains intact from last year—with head coach Bert La Brucherie, assistant coach Shelby Calhoun, and coach Knth Jenson. In addition to this gleeome three, a spectre from Caltech's footboll past—Buz Van Kirk—has returned to haunt Tournament Park. Rounding out this formidable list is basketball coach Doc Alley.
"The team looks forward to a difficult, but interesting season, including a "road game" at the Coliseum, all but the frosh, and there is plenty of room for improvement among the players.

THE DEAN YOU SAVE MAY BE YOUR OWN

Colleges are complicated and bewildering places, filled with complicated and bewildering people. Today let us examine one of the most complicated and bewildering places of all—campus figures. I refer, of course, to the dean of students.

Peterman and secretary, shepherds, and grad students, and president, and bursar, and registrar, at the bottom of the campus swimming pool was the faculty dining room, and under the roof of his house to remove the statue of the Founder which had been placed there during the night by high-spirited undergraduates. At 6 a.m. he woke, dressed, lit a Marlboro and went up on the roof of the girls dormitory by high-spirited undergraduates, which had been placed there during the night by high-spirited undergraduates.

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More Audience
(Continued from page 4)
Lots of people are upset about pop art; they claim that a six-foot high portrait of a Campbell's Soup can is the basis of the new style. As I understand it, it is to portray and comment upon the mass-things of our present day. In the middle ages, for instance, each person found himself in a highly religion-oriented society, and consequently medieval art was preoccupied with religion. Today our world is dominated by the mass media — advertising, television, propaganda — forcing whose outstanding property is their tendency to make us all into indistinguishable, interchangeable, consuming cogs. Naturally we can expect artists, particularly, to ignore the mass-things, and, as pretty much, they have. It would be surprising, however, if the artists could ignore even this environment forever, and so it seems that pop art is a reasonable development. The artist, after all, doesn't have to simply depict a soup can; he can tell you whether he loves it or hates it. These were the notions I had in mind when I went to see "Six Painters and the Ob-
ject," and I was a bit disappointed. Looking at Andy Warhol's soup can picture did make me think of a supermarket, but I don't wish to say what? Some of the collages by Robert Rauschenberg were impressive, but not really in the pop art style; while with our exception the more distinct pop art canvases (slices of pie, bull's-eye targets, comic-strip panels) left me cold. Still, I haven't given up hope. It very often happens, after all, that the innovators of a new style won't be very good at it, as, for instance, Kyd wasn't such a good Elizabethan playwright and Gluck not such a good composer of opera. The really good portraits of soup cans may still be coming.

Tech Associates Announce Four New Directors
Dr. Simon Ramo, of Ramo-Woolridge Corporation, announced the election of four new directors to the California Institute Associates.

They are George W. Downs, vice-president of the Applied Physics Corporation located in Monrovia; William Scripps Kellogg, a trustee and the Manager of the La Jolla Beach and Tennis Club; Herbert Speth, vice-president of the Pasadena main office of the Bank of America; and John Robert White, a partner in the firm of Price Waterhouse & Company.

The California Institute Associates are a group of publicly held citizens who were incorporated in 1926 as a non-profit organization devoted to promoting the interests of Caltech.

Lacey Honored
(Continued from page 1)
Petroleum Institute.

He is a member of the American Chemical Society, the American Institute of Chemical Engineers, and the American Society for Engineering Education. In June, 1950, Governor Brown appointed him a member of the California State Board of Registration for Civil and Professional Engineers.

More Promotions
(Continued from page 2)
Science; Jerome Lee Shapiro, Applied Science; Ronald H. Willard, Materials Science; D. L. Anderson, Geophysics; C. D. Babcock, Aeronautics; and Richard Seagrave, Chemical Engineering.

Five professors are on one year leave of absence. These are Fred Alonso, on a Guggenheim fellowship at the University of Brussels; James F. Biever, Eastman Visiting Professor in Oxford University; C. Hewitt Dix, research associate on the faculty of science in the University of Japan (Fulbright Fellow); Thomas Lauritsen with a NSF senior postdoctoral research fellowship in the Institute for Theoretical Physics of Copenhagen; and Jurg Waser, on a Guggenheim Fellowship to study European chemistry education methods, especially in Switzerland.