

Eight Caltech men awarded Fulbright educational grants

Five students and three research fellows at Caltech have been awarded educational exchange grants under the Fulbright Act for the 1956-57 academic year.

Howard Berg, a senior, will use his grant to study biochemistry at Carlsberg Laboratory, Copenhagen, Denmark.

Norman Albright, a senior, will study physics at the Technical University, Stuttgart, Germany.

Harry Williams of Altadena, now working for a PhD in mechanical engineering, will study at the University of Manchester, England. His special field is aerodynamics.

Stanley Grotch of Los Angeles, who is working for his master's degree in chemical engineering, will study at the Municipal University of Amsterdam, Holland.

Frederick Harshbarger of North Liberty, Iowa, now working for his PhD in mechanical engineering, will study molecular physics at the Norwegian Institute of Technology, Oslo, Norway.

Of the three research fellows, Drs. Richard M. and Naomi C. Franklin will conduct research in virology at the Max Planck Institute for Virology, Tuebingen, Germany, and Dr. George H. Trilling will do research in physics at the Polytechnic School, Paris, France.

All those receiving Fulbright grants are selected by the Board of Foreign Scholarships, members of which are listed on page 4.

Russ Pitzer gets TB Pi frosh honor

Russ Pitzer was elected by Tau Beta Pi as their freshman of the year at the last meeting of the Caltech chapter. Officers for the coming year, delegates to the annual Tau Beta Pi convention and a faculty advisor were also elected.

Russ Pitzer, as frosh veep, co-captain of the frosh football team, outstanding discus dabbler and newly elected member of the Board of Control, has shown the "breadth of interest and high degree of unselfish attitude, the scholastic standing and personal integrity which are the criteria for awarding the honor of freshman of the year."

Jim Workman was elected president of the Tau Beta Pi, with Bob Moore, vice-president; Herb Rauch, recording secretary, and Ed Nelson corresponding secretary. Walt Spect will handle the loot and John Thomas will serve as cataloger.

Herb Rauch was elected delegate to the annual Tau Beta Pi convention to be held this year at the University of Kansas early in October. Walt Peterson was elected alternate. Alan Acosta was elected to the faculty advisory board of the TBPI. Other members of the board are Michael Cohen, Dr. William Corcoran, and Dr. Fred Lindvall.

Peace Prize talks May 24

Today is the deadline for entries in the Conger Peace Prize assembly to be held next Thursday at 11 a.m. in Culbertson. The competitors will discuss some phase of international or industrial peace, with a \$50 prize for the winner and \$25 for second.

C. M. Nelson, president of the Pasadena Chapter of the American Association for the United Nations, and Hallett Smith, chairman of the humanities department, will serve as judges of the orations, with the third judge yet to be announced. The judges will choose the winner on the basis of content and organization of his speech, as well as his sincerity and manner of presentation.

Entrants must submit a typewritten copy of their speech to Mr. Dwight Thomas in room 309 Dabney today, if they have not already done so.

Lost Weekend festivities to include dances, beach party

by Dave Leeson, ASCIT First Rep

This year's long-awaited Lost Weekend festivities get under way tomorrow with the arrival of dates, many from far, far away.

Representing several months of planning and arranging, the Weekend includes no less than eight separate events and features the overnight lodging of more than 50 Techmen's dates in temporarily vacated rooms in the Student Houses. Spot-lighted activities are the two dances, a day at sunny Laguna Beach, a tasty beach party meal, and a new addition to the traditional Lost Weekend schedule, the Glee Club concert.

Here's this year's time schedule:

Friday, May 18

2:00: The girls who are going to live in the Student Houses over the weekend will begin to arrive and check in.

6:30-7:00: A special meal will be served in the Ricketts dining room for those Techmen whose dates are staying in the houses. Anyone else who would like to bring a date is very welcome.

8:00: The Glee Club will present a full program in Culbertson. A student body card will admit a couple, and again, anyone else who would like to bring a date is welcome. This event is also open to the public, but admission will be charged.

9:30-12:30: Techmen and their dates will dance to the music of Bob Haymond in Dabney lounge.

(Continued on page 6)

Announcements

They're off!

Track fans interested in attending the U. S. Olympic trials June 29 and 30 at the Los Angeles Coliseum may obtain applications for tickets from Dr. Floyd Hanes at the athletic department office. It is advisable to send in the applications as soon as possible.

Hup—Twop—Threep . . .

The drill team of the Caltech Air Force ROTC unit will present a performance of intricate movements, with rifles, at Long Beach Airport at 1:00 p.m. Sunday, May 20, 1956. Following the drill team performance, the Airport will hold open house, with many Air Force planes and various aircraft equipment on display.

IRE elects Rauch, Soux and Marshall

"We should like the IRE become as active as the other student engineering affiliates on campus," said Herb Rauch, newly elected chairman of the Institute of Radio Engineers. New officers besides Rauch include Luis Soux, secretary-treasurer, and Bob Marshall, program director.

The IRE's schedule for next year is slated to include talks on color television and on hi-fi components.

Hardy Martel, faculty adviser, states that, "Both the IRE and the AIEE offer the students opportunities to find out what engineering is like."

Debaters present exhibition debate

Last night at 8 p.m. Caltech's national award-winning debate team of Andy Perga, Rube Moulton, Mike Bleicher and Gene Cordes gave a demonstration debate before the Orange County chapter of the American Association for the United Nations, Inc.

The debate, held in Chapman College in Orange, was on the topic, "Resolved: That the United States should extend diplomatic recognition to Communist China."

Caltech Glee Club will present annual Spring Concert Friday

Caltech's Glee Club, under the direction of Olaf Frodsham, will produce their annual Spring Concert Friday in Culbertson Hall. Admission to the concert, which is being held in conjunction with Lost Weekend, is one student body card for a student and date, 50c for the general public.

The program will open at 8 p.m. with *Salvation Belongeth to Our God*. Several religious selections will follow, and then the program will progress to such show tunes as *Summertime*.

Harlan Gates will be featured as soloist, and the glee club quartet will also perform. The program will end with *You'll Never Walk Alone*, from *Carousel*, and the Caltech Alma Mater.

The glee club will soon produce a 12" record entitled *Caltech Sings*. One side will feature the Interhouse Sing, including the four feature numbers and Ricketts' rendition of *Rock o' My Soul*. The other side will include from six to nine numbers by the glee club. The records will be coming out before graduation, and will be put on sale within the next week.

So far this term the glee club has put on a two-hour Episcopal (Highland Park) concert, a

(Continued from page 1)

Three top chemistry seniors will continue their educations in history, law, medicine

by Mike Milder

Next year three of Caltech's top seniors in the chemistry option will further their studies at various Harvard Graduate Schools. The surprising fact is that these men are not continuing their studies in the field they have pursued at Caltech, but are diverging into other fields.

Howard Berg, Tom Bergeman, and John Young will all receive degrees in chemistry this June, and afterward will depart to pursue their respective ambitions in medicine, history, and law. Berg will journey to Copenhagen for a year on a Fulbright Scholarship to study biochemistry at the Carlsberg Laboratories before entering Harvard. He tentatively plans a career in clinical medicine. Bergeman will enter Harvard graduate school to study history, with the hope of receiving a PhD in that field. He plans to make a career of government work, most probably in the Foreign Service. Young will also enter Harvard to study law. He would like eventually to establish a private law practice.

Berg, Bergeman, and Young are perhaps the three most talented seniors in the chemistry option.

All three have been active in student affairs since they came to Tech, and last year they served on the ASCIT Board respectively as Vice President, Secretary, and Treasurer.

What prompted these men to forsake science? The explanations they offer are similar: their values have undergone a change during the time they have attended Caltech; they have come to develop an interest in human



Photo by D. Groce

Outstanding chemistry seniors Howard Berg, John Young and Tom Bergeman discussing their plans towards higher education.

affairs to the extent that science now seems to them a little too narrow and unrewarding. They desire careers in which they can feel their work has more immediate significance to human affairs.

All three men affirm that their participation in extra-curricular activities has gone far in developing this interest in human affairs. They add that, except in the case of Berg, who switched from physics to chemistry when

he decided to study medicine, their mutual choice of the chemistry option was coincidental.

The three were asked if they now felt they had been wasting their time in their study of science at Caltech. All answered to the contrary. They all agree that a thorough understanding of science is an important and valuable part of a modern liberal education. Bergeman and Young added that the curricu-

(Continued on page 4)

California Tech

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Entered as second-class matter November 22, 1947, at the Post Office in Pasadena, California, under the Act of March 3, 1879

Text of student-faculty note to educational policies group

The following is a recommendation passed by the Student-Faculty Relations Committee and sent to the Educational Policies Committee last Monday.

It is our belief that student delegates to the Committee on Educational Policies would be a beneficial addition to that body in these several ways:

1. Student delegates will represent the student's philosophy of education before the Committee.
2. Student delegates will contribute the student's viewpoint to discussions of a specific nature.
3. Student delegates will contribute and generate worthwhile topics of discussion which the faculty might not otherwise consider.
4. Student delegates will improve the liaison between students and faculty by bringing the Committee's viewpoints to the students.

We therefore suggest the adoption of the following plan for regular participation of student delegates in the work of the Educational Policies Committee:

1. At the invitation of the Educational Policies Committee, the student body, through its officers, will appoint three representatives to act as delegates to meet regularly with the Committee. It is understood that student delegates shall not vote, but may raise matters of new business and are expected to participate in discussion. It is further understood that the faculty members, may if the need arises, meet without students present.
2. The three students shall be chosen by the ASCIT Board, with the advice of the House Presidents, and will serve at the pleasure of the ASCIT Board. The choice of delegates shall be guided by the following considerations:
 - (a) Delegates should be chosen primarily for their intelligent concern for educational problems.
 - (b) Insofar as practicable in view of (a) above, there shall be at least one delegate from the Science options and one from the Engineering options.
 - (c) Insofar as practicable, both the ASCIT Board and the Inter-house Committee shall be represented.
3. Student delegates shall be guided by the following considerations:
 - (a) They shall at all times represent the best interests of the student body as a whole.
 - (b) They shall seek, and take into consideration, the opinions of other students.
 - (c) They shall abide by the policy of the Committee regarding outside discussion of topics under consideration.

Secretary's Report

Tech is hell Converse brought to our attention that felt "Tech is Hell" banners are available to spirited students who want to pay three dollars. Contact him for details.

Homecoming vs. Oxy rally Elliott explained that the Alumni Association wanted us to continue having our homecoming with Oxy even though it will not be a home game next fall. Oxy hardly considers us as a homecoming rival. The alternative would be to crown our queen for the Pomona game in the Rose Bowl, but without alumni support we could hardly call it homecoming.

Next year's budget approved If all else fails, miscellaneous can do without his awards next year. We must balance the budget! We tried for the better part of three hours. Carmichael considered the \$3 per student spent on letterman sweaters and jackets might be excessive considering he benefits which the ordinary student fails to receive from these. After much discussion the athletic awards budget was approved unchanged at \$1850. Bonwell volunteered to cut \$50 from his askings for third term assembly next year, because he could schedule another good inexpensive assembly. Converse reciprocated by reducing the proposed cost of the spring awards banquet next year by \$50. Moulton spoke for the debate squad who are hoping to send a team to the National Pi Kappa Delta Tournament in South Dakota next year. Last year at Redlands they took first in the nation in forensics. Their appropriations were raised to \$475, still \$125 less than they requested. Elliott (just returned from his good will visit to Vancouver for the Pacific States' Presidents' Association Convention) requested \$75 to send next year's president to Phoenix for PSPA. Nierlich was praying for \$600 contingency fund next year. He added up to \$601. Meeting adjourned.

Herb Rauch
ASCIT Secretary

Discussion of ASCIT Budget

by Bob Walsh

I would like to call attention to the breakdown of the ASCIT budget which appears on this page.

The sum of \$5.50 which the Athletic Department receives is presumed to cover admissions for members of the student body to athletic contests, both home and away. Last year Caltech played in seven football games and eighteen basketball games. Included in these contests were several basketball games to which the public was admitted free. We will base our calculations, however, on 25 games.

Although as many as three or four hundred undergraduates may attend a home football game (of which there are two), there are rarely more than 25 loyal souls at a non-conference basketball game away from home. For a generous estimate we have taken an average of 100 admissions per contest, of about one-sixth of the student body.

Result: the ASCIT pays \$1.32 per student attending an athletic contest.

Interhouse Food Committee experiences success, failure

by Dave Tansey

The Interhouse Food Committee was first established last year to act as a clearing house for student complaints about the food. It was continued this year with an eye to reducing the number of individuals coming to Mrs. Southworth. The idea of operation is simple. A man with a complaint takes it to a member of the committee. The gripe is thrashed out at a meeting and a recommendation for a specific change such as weekend milk seconds at noon in all four houses, honey and butter with biscuits, two meals on weekend, or no more rutabaga, is presented to Mrs. Southworth. If the change requested is a relatively minor one, she is usually glad to put it into effect. The old system is reverted to if the troops in general object to a given change. If the solution presented involves a major action, such as discharge of the whole kitchen staff with subsequent rehiring as a show of strength, she does not comply and the committee has no recourse but to present an easier solution or forget the whole thing. In several exchanges she has let the members know that the food purchased is of high quality and they have let her know that it is poorly prepared and served. She claims that this is a function of serving 410 at a given meal and there it stands, a stalemate.

Some men, either unaware of, or displeased with the committee or its results, continue to object to chocolate sundaes, ham, or bad coffee directly to the student house office. It is perhaps just as well, because the people who bring these particular complaints to the committee would gain little satisfaction. Feeling that variety is a necessity, the committee has been slow to remove items from the menu and each time the coffee issue comes up, they are told that everything has been tried and that it seems to be the water that makes the coffee here so bad and in the greasy so good.

A matter looked into by the committee and by other interested students was that of money and profit in the houses. Essentially the same decision was reached by both groups. Mrs. Southworth and Comptroller George Green are not embezzling money; the student houses do

designing done professionally instead of by students.

There are probably more items in the budget which, if examined closely, would be interesting to discuss. But no amount of editorializing or student opinion can produce an intelligent budgeting of student money.

Only an energetic Board of Directors, which realizes that if they budget a group too much it will always break even and which is willing to question the decisions of past Boards; only an "enlightened" Board can arrange to rescue habitually squandered funds and put them to use on some of the projects so badly needed at Tech.

But I would like to forward some of the comments which come to mind when considering the facts we have given.

1. Why do the students have to pay over \$3000 to the Athletic Department?

2. Are we justified in buying expensive jackets and blankets for second and third-year lettermen when we give out letters so freely?

3. Should we contribute \$40 per man to an activity which is already heavily subsidized by the Institute? (Yes, debate.) It has been said that the Institute will cut its subsidy if we cut ours. Apparently forensics does not have enough intrinsic value to merit support regardless of ASCIT action.

4. Wouldn't it be reasonable for the Big T to put out fewer pages of better quality instead of the present wealth of mediocre material? Also it is no more ridiculous to have professional photographers than to have the printer design the pages.

Budget Analysis

Each year every member of the Associated Students of the California Institute of Technology, Inc., pays \$20.50 in dues, and the Bookstore contributes a dividend of \$2.50 per student, making a total of \$23.00.

According to the budget of the Board of Directors, this money will be spent next year as follows:

Athletic Department	\$ 5.50
Awards and Banquets	4.27*
Athletic Awards, Miscellaneous Awards, Athletic Banquets, Directors Banquet	
Rally Commission	.92
Assemblies, Election Rally, Oxy Rally	
Social Program	2.63*
First Term Dance, Frosh Tea Dance, Winter Formal, Lost Weekend	
Management Expenses	.90
Office Expense, President's Expense, Vice-President's Expense, Election Expense, Publicity Expense, Equipment Expense	
Support of Student Activities	1.12
Debate, Glee Club, Model U. N.	
Subsidy to Big T	2.51*
California Tech	(10.5c per issue) 3.15
Farrago	(33.3c per issue) 1.00
Contingency Fund	1.00
	\$23.00

*These amounts represent the cost for those who do not participate in the activity or receive the publication. Additional costs may be estimated as follows:

Spring Sports Banquet	1.50
Spring Sports Banquet	1.50
Lost Weekend	3.50
Big T	3.00
Assuming these costs, the total costs for the year to each student participating will be:	
Awards and Banquets	\$ 7.27
Social Program	6.13
Big T	5.51

not pay the Athenaeum loss. Instead, the excess of income over expenditures in the houses, twelve and one-half thousand dollars last year, is put into a general fund and used to make repairs and improvements in the houses over the summer.

The committee meetings are

open and interested students are invited to attend. The next meeting is scheduled for Thursday, May 17, in the Student House Office at 5 p.m.

Members of the committee for this year are Dan Horowitz, Blacker; Leon Keer, Dabney; Collis Holladay, Fleming, and Dave Tansey, Ricketts.

Hybrid Music:

The Lively Arts

LONG-HAIR
by Jacob Lubliner

New York is currently going through another of its periodic storms involving the Philharmonic-Symphony Orchestra, and in the center, as usual, is the orchestra's music director — this time Dimitri Mitropoulos. But the controversy, carried on by such critics as Howard Taubman of the *Times* and Winthrop Sargeant of the *New Yorker*, involves more than personal criticism of Mitropoulos. Under fire are the programming ("routine"), the perennial engagement of the same soloists and guest conductors, the lack of promotional activity which would bolster attendance, and, most important, the orchestra's playing. It is generally agreed that, despite superb personnel, performances have ranged from fair to very poor—the latter, especially, with Mitropoulos conducting. It is reported that his success in opera has caused him to lose interest in the Philharmonic; others speak of differences with the board of directors. In any case, the cries for his scalp are getting louder.

Nevertheless, the orchestra's recording activity has been going on unabated. Here are some of the last month's issues.

Tchaikovsky: Symphony No. 5, N. Y. Phil. Mitropoulos cond. Columbia, ML 5075.

This record, it may seem, was released to justify the critics' claims. As there are nineteen other "Fifths," it is hard to understand the "pressing" need for this version, which lacks cohesion and is driven to excessive climaxes (e.g. in the first part of the last movement). The performance smacks of inadequate rehearsal and lack of concern.

Beethoven: Symphony No. 6 ("Pastoral") N. Y. Phil., George Szell cond. Columbia ML 5057.

Another work well represented in the record catalogue; but this performance is smooth and well-paced (and well recorded), but it lacks any distinctive qualities that would make it outstanding as the versions of Kleiber, Steinberg, and Furtwangler are outstanding.

Brahms: Double Concerto (with Isaac Stern and Leonard Rose); **Variations on a Theme of Haydn.** N. Y. Phil., Bruno Walter cond. Columbia ML 5076.

The Philharmonic has consistently responded well to Walter, and this record is no exception. The soloists in the concerto play with dedication and in perfect accord with Walter's finely conceived interpretation, and the Variations (recorded over a year ago), too, are given one of their best recorded playings.

"Vienna Nights." N. Y. Phil., Andre Kostelanetz cond. Columbia CL-769.

This record includes pieces by Schubert (*Marche Militaire*), Richard Strauss (*Rosenkavalier Waltzes*), and, of course, Johann Strauss (*Die Fledermaus* overture, *Tritsch-Tratsch* and *Pizzicato Polkas*, and "*Tales from the Vienna Woods*"). The performances, are loud and brilliant, as expected. This approach is suited best to Richard Strauss, who performs very well. For Johann, many prefer a more re-

laxed attitude; one cannot deny, however, that the Kostelanetz style has individuality, and, as the recording is done with taste, this disk may be worth a listen.

CREW-CUT
by Frank Kofsky

Fontessa—The Modern Jazz Quartet, an Atlantic (1231) 12" high fidelity recording featuring: Milt Jackson, vibraharp; John Lewis, piano; Percy Heath, bass; Connie Kay, drums.

The very absence of a horn among their instruments requires that the music of the **Modern Jazz Quartet** (or **MJQ**) be something unique. Rather than thinking of the **MJQ** as compensating for this absence, I prefer to think of them as taking advantage of their situation to present jazz in a fresh and expressive manner.

All four members of the **MJQ** are talented soloists, but they have sublimated their individual talents towards producing ensemble efforts which are outstanding for their continuity and integrated sound; they have rendered the sum of the parts greater than the whole.

But cohesiveness in a small group, while pleasing, is not suf-

ficient. There must be compositions and arrangements which are original and unhackneyed. This fact has been tacitly acknowledged by the **MJQ**, and there are many times when they step out of what is usually regarded as the domain of jazz to introduce an unusual concept. Such a time occurs in John Lewis' composition, **Fontessa**, also the title of the album, a piece inspired by the Renaissance **Commedia Dell'arte**. **Fontessa** is a programmatic work (one which tells a story), one of the few written in jazz, and is 11 minutes in length, roughly three times as long as the average jazz composition. In writing a very successful jazz composition utilizing classical form, Lewis has completed a successful tour de force on two levels.

Although they may sometimes be restrained in their interpretation, the **MJQ** exists only to play their concept of jazz, a most stimulating one. They have demonstrated that it is possible to produce mature creations without losing sight of the basic criteria of jazz: "does it swing?" From my own personal experience I can say that this album, their newest and finest, will be appreciated by all who enjoy good music.

Techmen advised to fraternize with school Placement Service

by Bill Hecht

Due to the vast abyss that exists between student and prospective employer, it is a great advantage for a Techman to be well acquainted with the functions and operations of our Placement Service. The three primary functions of the Placement Service are: 1) to secure part-time and summer employment for students while in school, 2) to aid those persons receiving degrees in finding permanent positions, and 3) to give dissatisfied and unemployed alumni an opportunity to explore other sources of employment.

In order to find part-time jobs for students, the Placement Service keeps a card file containing the names of persons desiring all types of work so that the job can be filled properly. The most common types of part-time work are baby sitting, gardening, and tutoring. The procedure for obtaining summer jobs through the Placement Service is similar to that for securing permanent positions, but in ad-

dition to this, catalogues are kept containing the names of firms where an undergraduate can do semi-technical work in cities all over the country. Frequently, this gives the student an opportunity to work in his home town for the summer and gain valuable experience while doing so.

Schedules for the interviews concerning both permanent and summer positions are printed in the California Tech and posted in Throop. Students are not required to fill out the lengthy applications companies usually ask for, but instead make out one small standardized form of which one carbon copy is necessary for each interview.

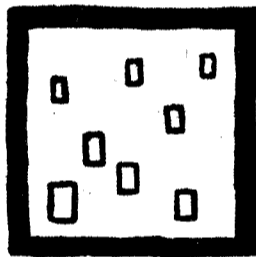
"Doc" Clark, Director of Placements, has stated that a surprisingly large number of alumni are unaware of the fact that the Placement Service offers them the opportunity of looking into the possibilities for more attractive jobs. In rendering this service much care is taken in insuring that the alumni's employers will not become aware of his

(Continued on page 6)

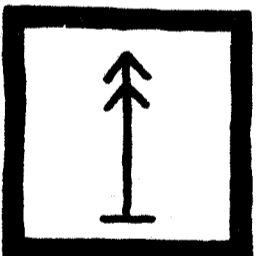
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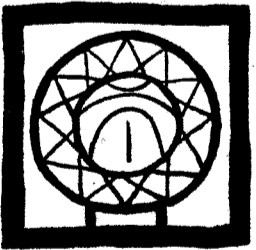
For solution, see paragraph below.



PINE WOODS AT CHRISTMAS
Virginia Hoeh
Roosevelt U.



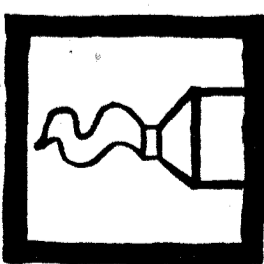
HATRACK FOR UNWELCOME GUESTS
Gregory Schmitz
U. of Wisconsin



WINNING BASKET AS SEEN FROM BALCONY
Richard Hidani
Indiana State Teachers



TADPOLE CONVENTION
Lorenzo Zola
U. of Colorado



WORM ENTERING SHAVING-CREAM TUBE
Roger Atwood
Yale

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audience

movies

CAROUSEL

Perhaps it was unavoidable that second Rogers and Hammerstein Musical to be made into a movie should be an anticlimax. Todd-AO and the all time great "Oklahoma" combined with a lavish outpouring of talent and settings have set a standard which is perhaps unattainable for "Carousel" and the over-rated "new Cinemascope 55". But in my opinion the film's shortcomings run deeper. The songs were just as beautiful (especially "June is Bustin Out All Over" and "It was a Real Nice Clambake"), but unfortunately, the relatively good singing of Gordon MacRae and Shirley Jones is ability, and "Carousel" unlike its predecessor, has a bonafide plot, and even (by all the gods) a moral. Although it is not absolutely impossible for a singer to learn to act well perhaps it would be better if this process were carried out before rather than using the national audience as a guinea pig. If you like the songs of Rodgers and Hammerstein (and who doesn't?), the picture is probably worth the money. Bring a good book for the parts in between.

INTERNATIONAL MUSIC FESTIVAL. An International Music Festival featuring student talent from about twenty colleges and universities in Southern California, will be presented this Friday at 8:15 p.m. at the Greek Theatre. Performance will include classical, folk, and modern singing and dancing. The Festival is sponsored by the World University Service. Tickets at \$90, \$1.20 and \$1.50 are available from the

Caltech YMCA or any mutual ticket agency.

FESTIVAL OF THE ARTS. The First Unitarian Church of Los Angeles presents its 5th Annual Festival of the Arts, running from May 18th through June 3. An Art Exhibit opens on May 18 at 8 p.m.; tickets are \$1.00. **THE ECHOING HILLS**, the world premiere of a new play by Lester Cole will give performances on May 19, 20, and 26 at 8:30 p.m. admission is \$1.50. **Mozart's Freemason Cantata Choir Concert** is scheduled for May 25 at 8 p.m.; tickets, \$1.00. A Family song and dance program will be held at 2 p.m. on May 27; tickets are \$.50 and \$1.00. **PETE SEEGER** sings folk songs and ballads on June 1 and 3, at 8 p.m. admission, \$1.50. Pete Seeger replaces Paul Robeson, who had preciously been scheduled to sing. For further information on films, lectures and other events call DU. 99998. The First Unitarian Church is located at 2936 West 8th St., just east of Vermont.

the arts

THE ECHOING HILLS. First Unitarian Church, 2936 W. 8th St., L.A. The Echoing Hills, a new play by Lester Cole, deals with the life and death struggle carried on by Abolitionists in the slave state of Virginia preceding the Civil War, a struggle which parallels that being faced in the North and South today. Directed by Robert Davis, who has appeared with the Negro Art Theatre, Ebony Show Case, and The Associated Negro Actors. Performances are scheduled for this Saturday and Sunday nights at 8:30 and on Saturday, May 26 at 8:30 p.m. Tickets, \$1.50, available at above address.

DOUBLED AND REDOUBLED

by Rutchick

The results of the National Intercollegiate Bridge Tournament have finally arrived and it seems that some of our boys did very well indeed. We were particularly pleased with the showing of John Howell and Don Seldeen, who placed second in the nation. They were just barely squeezed out of first place by a team from Dartmouth. Also high in the ratings were Blaine Navroth and Larry Rhodes, who were third in the Western Region.

The hands for this tournament are made up by the well-known bridge expert, Mr. Geoffrey Mott-Smith, and are sent out to colleges and universities all over the country. Each hand is designed so that par can be made only if the hand is bid and played exactly right. Of course, the players do not know what the par on any particular hand is when they are playing it. A par might be, "Make game," or, "Make slam," or "Prevent game." To show that the participants in this tournament were up against, here is one of the sixteen hands:

- D 10864
- S —
- H AK8754
- C 1098
- N
- W
- E
- S 952
- SAK10643
- D AQJ
- D K95
- H 963
- H 2
- C 7643
- C KQJ
- S
- S QJ87
- D 732
- H QJ10
- C A52

Dealer: East
Both sides vulnerable
East-West Par: Make game.

Suggested Bidding

East	South
1 spade	pass
3 spades	pass
pass	pass
West	North
1 no-trump	2 diamonds
4 spades	pass

The following account is that furnished by the committee for the National Intercollegiate Bridge Tournament:

"Declarer, on getting the lead, lays down a top trump and discovers the bad split. Since he must lose a diamond and a club, the only chance for game is to hold South to one trump trick. The only way to do this is to strip the South and East hands to exactly three trumps each; then a low trump lead will force South in and compel him to lead trumps back into a major tenace.

"To strip the hands, declarer must shorten his own trumps by ruffing two diamonds, and must get into dummy twice with hearts to lead diamonds for this purpose; he must also knock out the club ace, and get all three rounds of hearts and clubs out of the way. If South can ruff any of these rounds, the game is lost—but then it never could be made.

"As the cards lie, this plan cannot be defeated. Even if the defenders fail to start with two rounds of diamonds, giving East a helpful ruff, declarer can get the two ruffs by leading his diamond promptly after discovering the bad trump split."

"Caltech is the Vassar of the west." **Dan Piper**
EN GARDE

The Beak was astounded when he took his head out of his book for air and looked out the window. He saw a wierd sight; on the Atheneum lawn were two couples, one was quite natural but the other pair were apparently fighting. This was no ordinary lover's quarrel, these two were fencing. The Beak restrained himself from jumping out of the window and quickly ran down to the scence prepared to dual to the death. He arrived just in time to hear the male part of the duo yell "lunge" and the Beak lunged between sword and damsel. While healing his wounds the Beak was able to extract the whole story.

Clean Cut Clark

Young, clean-cut Clark Bell is giving fencing lessons to all damsels in distress. His proteges seemed to learn fast because Bell called off the proceedings quickly and invited said maidens up to his room for some cooling off.

Next time you meet a girl and she pulls a foil on you: Head for the hills.

Cast Party

To demonstrate how the famous cast party affects the mental prowess of a participant, consider what happened to John "Parson" Kelley. He doesn't remember too much of what came off. Tarzan Kelley claims he remembers carousing and the next thing he could recall going to sleep. Between time Kelley was driving a gray '49 Chevie with Arizona plates. Has anybody seen this poor man's car.

Water Sports

Ricketts welcomed the first day of summer with a Catalina party last Sunday. Among those aboard was one Norris Hues. It seems Long had an accident and was unable to make the trip and offered to sell his tickets to anyone who wanted aboard was one Norris Huse. Long's date. Now just what happened between Norris and said woman is unknown as the lights were low most of the way back but Norris was later heard to say, "I was just keeping her quiet."

The Beak also kept close watch on Frank Childs and date

CALTECH MEN

(Continued from page 1)

bers of which are appointed by vice for transportation abroad, the president. The grants pro-tuition and generous allowances for a year's board and lodging. Funds used under the Fulbright Act are foreign currencies obtained through surplus property sales abroad and are available for the coming year in 23 countries. The program also provides opportunities for foreign nationals to study in American colleges and universities.

A brochure describing overseas study awards under the Fulbright Act has just been published by the Fulbright Institute. This brochure and application blanks are available in the office of Horace Gilbert, Fulbright adviser on campus.

SENIORS

(Continued from page 1)

lum at Tech has been well-rounded enough to enable them to begin their graduate studies in the humanities at Harvard.

All three seniors recognize that Caltech has been further beneficial to them in that it has provided them with much greater opportunity for valuable extra-curricular activity than might

Campus Brewins

during the return trip. It seems Frank and date kept themselves well covered with one rather large coat. When asked later what a coat was good for he replied, "To cover a multitude of

sins."

Egad!

A wolf is like a railroad train to some women. They like to hear his whistle even if they don't want to go anyplace.

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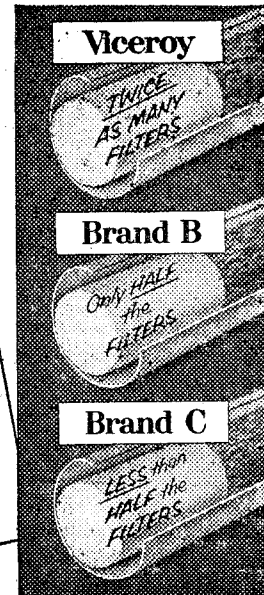


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Bengals take tight victory over Caltech horsehidiers

Occidental's baseball team moved within one-half game of Caltech by whipping the Beaver diamond men 3-2 at Tournament Park last Saturday.

Ray Weymann, Caltech's flinger, and Dick Sovde, Tiger pitcher, set down opposing batters effectively in the first four innings.

In the fifth Oxy got two men on base, and with two away Sovde smashed a solid double into left center field. The blow was responsible for two runs, and the Tigers led until the bottom of the seventh. In this inning the Beavers put together three hits with an Oxy miscue to tie the score.

The ninth inning was exciting all the way. Oxy pushed across a single run in this frame when a ball hit to the right side of the infield scooted over second-baseman Don Stocking's arm as he made a fine diving try for the ball.

In Caltech's half of the inning Chuck Norman drew a walk with two down. Jim Koontz rifled a single into right field, sending Norman to third, Koontz taking second on the throw. Ed Nelson, the next batter, grounded to third to end the threat and the game.

The current league leaders finish the season on Saturday. Caltech will be entertained by Redlands, while the Bengals will meet Whittier.

The Beavers will sorely miss the services of left fielder Hal Morris. Morris severely twisted his ankle when he tripped

Spring grid drill begun

Spring football practice got underway last week at Caltech, as Coach Bert LaBrucherie sent 20 of his charges through conditioning drills and play-learning sessions.

Despite the loss of several athletes to other spring sports, LaBrucherie hopes to make his footballers as familiar as possible with the combined split-T-double wing offense Caltech will use this fall.

Seven returning starters will bolster the squad, along with several other returning lettermen.

over the first base sack as he beat out an infield hit against Oxy.

Tech tankmen lose swim final

Disqualification in the medley relay, first event on the program, cost the Caltech varsity swimmers first place in the SCC swim finals held at Alumni Pool, Saturday. The Beavers took third in the meet, ten points behind the Whittier Poets and one and a half points behind Occidental. Whittier scored 65½ points to Oxy's 57 and Tech's 55½. Pomona-Claremont tallied 41 and Redlands trailed with 27.

Five new meet records were set Saturday, with Caltech accounting for three. Clarke Rees had a hand in all three records, with times of 2:20.2 in the individual medley, and 2:22.3 in the backstroke race. Rees also anchored the 400 yard freestyle relay team to a new meet mark of 3:46.0. Ed Park, Vince Taylor, and Jim Ball were the other relay swimmers.

Other meet records were set by Dick Ellis of Whittier in the 100 yard freestyle at 54.5 seconds, and Occidental's medley relay team of John Calderwood, Stan Morner, and Tom Pavey, with a time of 3:08.9.

In the medley relay, Tech's team of Bob Smoak, Bill Davis, and Park finished an apparent second, but the Beavers were disqualified because of an early takeoff by the anchor man, taking nine points away from Caltech and giving two more to Whittier.

Golfers win again

Wayne Kreger shot a 73 to lead the Caltech golfers to a 31-5 win over California Baptist last weekend at Los Cerranos Country Club. Paul Lindfors and Ed Shuster, with rounds of 79 and 80, were other high scorers for Tech.

Tomorrow the turfers compete in the conference tournament to be held at Brookside Park, Tech's "home" course.

The Sports Corner

by Dick Van Kirk

Ed Preisler's baseballers ran into a little bit of rough luck last weekend, losing a real thriller on a cheap hit in the ninth. Aside from Ray Weyman, who pitched his usual good game, the pair who kept Caltech in the game with their excellent defensive work and offensive maneuvers were Chuck Norman and Don Stocking. Norman really sparkled in the field, roaming all the way from behind third base to short center field to stop potential hits. Stocking was the sparkplug of Tech late-inning rally, and only a bad bounce kept him from stopping the game-winning hit with a diving attempt. Jim Koontz made some good stops of wild throws at first base to cut down Oxy runners.

* * *

The swimming team ran into some misfortune on Saturday, also. Their loss certainly can't be blamed on Clarke Rees, however. The sophomore flash only set new meet records in both of the individual events he entered and helped break another record in the relay.

* * *

Plug of the week dept. . . If you want to see some good tennis being played, come out to Tournament Park tomorrow and Saturday to watch the SCC tennis finals. The Redlands Bulldogs, undefeated in seven years of conference competition, qualified seven of the sixteen finalists in the singles tournament, followed by Caltech with three. All other SCC schools qualified two men . . . Also tomorrow is the SCC golf tournament, to be held at Brookside Park. Caltech's golfers, led by Ed Shuster, will be out to repeat their second place finish in dual match competition.

Frosh Sports Roundup

by Brent Banta
SWIMMING

Four new conference records were set in the Frosh swimming finals held at the Caltech pool, last Saturday, and a fifth was tied, as the men from Pomona-Claremont/literally sank all competition by a 43 point margin.

Scoring well for Tech were the medley relay team of Mike Milder, Don Owings, and Keith Brown, which took second, Keith Brown, who placed second in the 100 yard freestyle, Bob Blandford, with a second in the individual medley, Don Owings, who garnered a second in the breaststroke, and the freestyle relay team of Keith Brown, Bob Blandford, Dick Mittleman, and Norm Velinty, which also placed second. Even with this steady

work, the junior Beavers were only able to net a close third behind Oxy and Pomona-Claremont.

BASEBALL

After a smoothly played 7-1 win over Pasadena Nazarene on Tuesday, the Frosh horsehidiers dropped a one sided 16-0 contest to Occidental on Friday. In the first contest, Kelley Kelley had a no hitter going into the final inning, when the opponents got to him for two hits.

The second contest, played at Occidental, turned into a real slug-fest for the Bengals. Fred Newman was the starting pitcher for Tech, and he was relieved by Kelley Kelley. In the final inning, Kelley lost control and allowed 6 runs to cross the plate by dint of several walks.

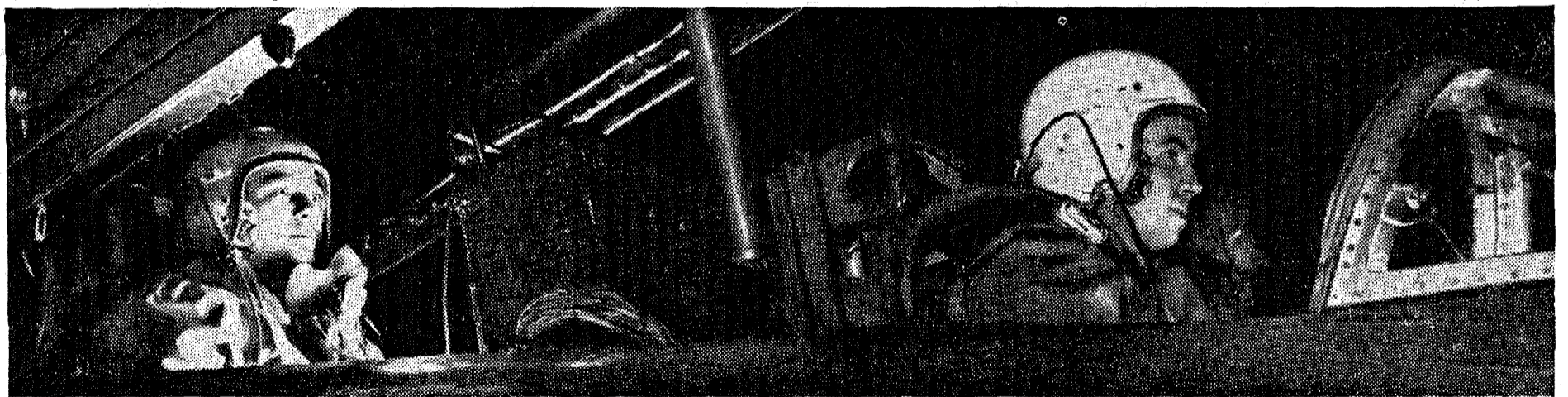
Interhouse volleyball

by Tony Leonard

Led by Arne Kalm, the Dabney powerhouse volleyball team meets probably its toughest foe of the season, Fleming House, in the gym today at 4 p.m. Dabney is yet undefeated with only today's game to go. Ricketts, Throop, and Blacker have met defeat facing the Darbs. If Fleming falls today, Dabney will be crowned this year's volleyball champions.

Up to Monday night, Fleming was undefeated with wins over Blacker and Throop. Ricketts also held a victory over Blacker.

A game between Throop and Ricketts is scheduled for tomorrow.



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*Based on pay of married 1st Lieutenant on flight status with 2 years' service or more.

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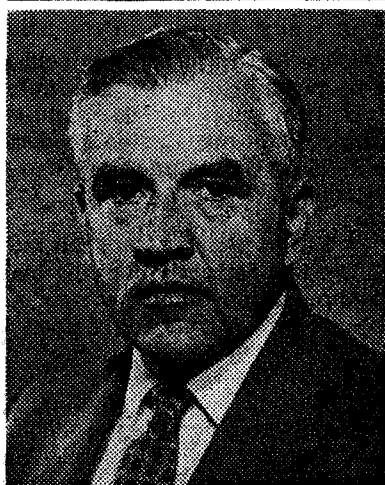
Caltech professor elected to French Academy of Sciences

Dr. Frits W. Went, in charge of the Earhart Plant Research Laboratory and professor of plant physiology at Caltech, has been elected a corresponding member of the French Academy of Science. The election took place April 23, at the annual meeting in Paris.

Election to the Academy is one of the top international scientific honors, there being only 116 corresponding members throughout the world. It was given to Dr. Went for his work on environmental influence on plant growth, and on plant hormones.

Before the erection of the Earhart Laboratory, which is the largest of its kind in the world, experimental plants were grown in ordinary greenhouses without much climatic control. Now, however, Dr. Went and his staff can reproduce as many as 46 different conditions of temperature, light, and humidity, and can study, by the use of special equipment, the effects of rain, wind and various gases.

Dr. Went has just recently returned from a nation wide tour as Sigma Xi lecturer. Speaking on "The Role of Environment in Plant Growth," he visited more than thirty universities, colleges, and research institutes. Last year he visited Australia to consult about the possibility of the establishment of a con-



Dr. Frits W. Went

trolled-environment plant laboratory there.

Dr. Went, a graduate of the University of Utrecht, received the M.S. degree there in 1925 and the PhD in 1927.

Alumni group admits seniors

The Caltech Alumni Association is now admitting to membership those applicants who are receiving degrees this June or who are otherwise leaving the Institute in good standing.

Arrangements have been made by Charles P. Strickland, former ASCIT president and alumni director in charge of membership, to provide information for those who are interested in joining and to accommodate the annual flood of applicants as expeditiously as possible. This is being handled by authorized representatives from the senior class who are available to both resident and non-resident students.

Graduating seniors and other qualified persons who are interested in Alumni Association membership should contact Myron Black in Blacker House, Louis Fletcher and Howard Berg in Dabney House, John Myers in Fleming House, or James Higgins in Ricketts House. For off-campus men, John Moser, Richard Johnson and Phil Conley.

GLEE CLUB

(Continued on page 6)

Thursday assembly, a concert at Scripps and has performed at the ASCE Conference and the Intercollegiate Festival. The Festival was held at UCLA and included Oxy, UCLA, San Diego State, LA State, Caltech and six women's clubs.

After the Festival, Newell Weight, music director at Brigham Young University, commented: "The balance, the blend, the unity are all very good. I am especially pleased with the stage presence and appearance of this group."

The glee club, rated as one of the best on the coast, will be ending the best season they've had in the last three.

PLACEMENT SERVICE

(Continued from page 4)

interest in new jobs:

In addition to these functions, the Placement Service keeps extensive statistics on salaries, types of employment taken, geographical job distributions, etc. This literature is published and is available to interested students. It is worth while for a student to be aware of these conveniences at his disposal and feel free to take advantage of them.

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LOST WEEKEND

(Continued from page 1)

Party dresses and suits will be the dress.

2:30: This is the curfew time for the girls staying in the houses. The girls' halls are off-bounds after 10:30 p.m.

Saturday, May 19

7:15-9:00: The girls and their dates will eat breakfast cafeteria style, as usual, in Ricketts.

11:00-5:30: A day of glorious Southern California sunshine has been guaranteed, according to the Laguna Beach Chamber of Commerce, and more than 200 will be there to take advantage. Pastimes such as volleyball, football, swimming, and just plain relaxing in the sun will occupy the Techmen and their dates.

5:30-7:30: A beach-party meal, including pineapple, ham, sourdough bread, and ice cream, will be served in Heisler Park, overlooking the beach and the ocean. The park is located immediately behind the famous Victor Hugo Inn in Laguna Beach.

8:30-12:30: After changing into informal evening beachwear — dressing rooms will be available at the beach—the couples will head for an evening of dancing to the music of Keith Williams at the nearby Laguna Elks' Lodge. Lost Weekenders will wear sarongs, Hawaiian shirts, and the like and they will round out their dress with leis at the dance.

Again, curfew is at 2:30.

Sunday, May 20

10:00: A farewell breakfast has been arranged at Rand's Round-up in Glendale for \$2.00 per couple. The Techmen and their dates will occupy a special roped-off section for the farewell feast.

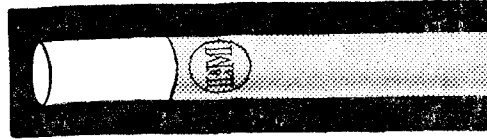
Information sheets, containing maps and schedules, are available in the house lounges.



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