



DIRECTOR OF ACADEMIC AFFAIRS for ASCIT, Bob Coleman, talks to students about grading policies at last week's corporation meeting. Photo by Gruner.

# Corporation Meeting Held to Plan; Topics Discussed Prove Productive

by Phil Neches

Spurred on by offers of free beer and pretzels, and startled out of traditional apathy by a three-pounder report from the Fleming House cannon, about 180 ASCIT members turned out for a corporation meeting held last Thursday on Winnett Plaza. Members voted on five resolutions, expressing views on topics ranging from solicitation of parents by the Institute to proposals for student involvement in campus safety and security.

After explaining the purpose of the meeting, ASCIT president Mark Johnson turned the microphone over to Jim Battey, president of Fleming House, who reported on the state of board contract plans for next year. Battey explained the alternatives offered by a poll conducted by the Master's office.

### Eats It Faster

Since the corporation meeting, the *Tech* has learned that as a result of the poll, it appears that

some plan calling for cafeteria-style meals in the North complex, with possibly one waited meal per week, will be adopted. The Food Committee will meet this week to study various bids and select a contractor.

Johnson then introduced Bob Coleman, ASCIT Director of Academic Affairs, who spoke on proposed academic reforms. While many far-reaching reforms would be desirable, he indicated, the resolution presented asked for only a modest, but possible, change in existing policy. Resolution I called for permitting students to take Institute requirements pass/fail. Currently, these requirements must be taken for letter grades. Coleman indicated that options could still make Institute requirements option requirements, and designated that they must be taken for grades. For example, the Physics option could require its majors to take Ph 2 for grades. The resolution carried by a vote of 148 to 28.

Next, Dave Drake, chairman

of the ASCIT Excom, presented a novel proposal to involve students in campus security. He proposed that the Institute hire students, to be provided with walkie-talkies and the like, to perform such chores as turning on lights and locking buildings. Drake said that these duties take up about 60% of the time of campus security officers, and that his proposal would free them for more important duties. Drake indicated that his idea had a chance of being adopted by the Institute.

Bryan Jack, ASCIT Vice President, presented the next issue, the optimum size of the freshman class. In recent years, the size of entering classes has increased from about 200 to between 220 and 230. Jack detailed two major disadvantages of increasing the freshman class: one, that the Institute already cannot provide enough on-campus housing for incoming freshmen, and two, that with

Continued on Page Five

## Students eat it...

# Board Contract Abolished

by Dennis Mallonee

Goodbye, Food Service. Just what the final result of all this will be is yet undetermined. All meals are to be served in Chandler. Meal tickets will be given out. It is not yet clear whether the kitchens will be available for student use.

### Background

During the five-year period after the Saga contract expired (eat noodles, Darbs), food service was run by the Institute itself. Many things were discovered between August '66 and '71. Among them:

- 1) The Caltech system is laid out badly (Example: UCLA can handle 836 students with as large a staff as it takes Tech to handle 450).
- 2) Waited meals cost a lot of money.
- 3) It is difficult to retain good

Management Personnel — (The school is small, and personnel not directly tied to the Institute tend to migrate to better positions elsewhere.)

In early 1971 the Institute apparently gave up. The kitchen portals were thrown open for bids, and Canteen food service was adopted.

The contract with Canteen expires with this year.

### You Can't Be Serious

The Institute offered eight different companies (including Canteen) a chance to bid for their wondrous contract over the next year or so. It received exactly four acceptable bids. Three of the companies submitted nothing at all (it appears that Chandler Dining Hall is not well liked off campus either).

Anyone for Petrillo's?

Volume LXXIV

Pasadena, California, Thursday, May 17, 1973

Number 29

# The CALIFORNIA Tech

## Election Procedure

The following elections procedures will be strictly adhered to in tomorrow's election:

A correctly cast ballot shall be one of the following three: (i) a vote for one of the nominated parties; (ii) writing "no,"; (iii) writing in a legally qualified party.

Each voter must sign the official register, in the presence of a member of the Election Committee, at the place of voting, before receiving a ballot.

Failure to abide by these rules will result in the invalidation of your ballot.

—Gavin Claypool  
Election Chairman

## Math Is Groovy

# Freshmen: Choose Your Option

by Steve Sweeney

Math has apparently taken over as the most popular option among frosh this year for the first time in Caltech's history. Out of 202 returns (as of Monday), 18% (37) had chosen Math, surpassing both the Physics and Engineering options by 5 (both had 16%). Physics had not been displaced from first by any option for many years.

Biology edged out Chemistry for fourth place, with 13% versus 12%. Astronomy got 13 majors, up 1 from last year, while Applied Physics managed

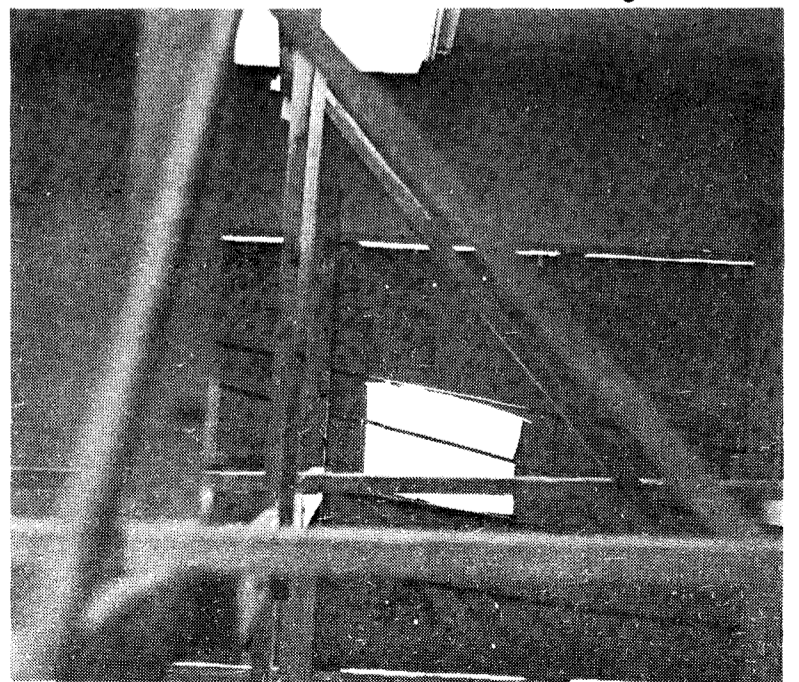
an even dozen. Chem. E. roped 9 frosh and Geology was picked by 7.

Four people chose Applied Math, two decided to become famous Tech English majors (double last year's number), and Economics, History, and Geophysics settled for a frosh apiece. Except for Math, the order of option popularity has stayed virtually constant from last year.

Six frosh have decided to double-major so far, with Ay leading in second majors with two. Second majors are also in Bio.

Continued on Page Eight

## Senior Ditch Day



A LARGE-SCALE MODEL of the ammonia molecule, NH<sub>3</sub>, was found Friday in one senior's room. Efforts to locate the owner proved fruitless until evening.

## News Briefs

# Glee Club Holds Tryouts Wednesday

Tryouts for the 1973-74 Caltech Glee Club will be held next Wednesday, May 23, from 4:00 until 5:30 in the afternoon. Anyone interested in seeing the world (or a small part of it), exercising their vocal cords, or just finding out what the Glee Club is about is welcome.

The tryouts will be held in the Music Offices underneath Fleming, and are open to all members of the Caltech community.

### Radio Club to Hold Year's Last Meeting

The Caltech Amateur Radio Club will hold its last meeting of the school year Wednesday even-

ing, May 23, at 7:30 p.m. in Winnett Student Center Clubroom 1. Matters on the agenda include election of officers for the coming year, and discussion of the current fund-raising drive.

### Chamber Orchestra Concert in Dabney

The Caltech Chamber Orchestra will present a concert on Wednesday, May 23, in Dabney lounge at 8:00 p.m. conducted by Tony Templeton. The Orchestra will play an oboe concerto by Handel and the 5th Brandenburg Concerto by Bach. Also featured will be a woodwind Quintet with a work by Hindemith. Admission is free.

### Visiting Sociologist to Speak on Family Planning

Dr. Laila Shukry El-Hamamsy, Director of the Social Research Center at the American University in Cairo, Egypt, will give a talk today (Thursday) at 4:00 p.m. in 127 Baxter, on "Family Planning in Egypt—Successes and Failures." Dr. El-Hamamsy is currently at Caltech as a Visiting Research Associate in Sociology with the Caltech Population Program, and spoke to a packed house last week on attitudes toward fertility in rural Egyptian communities. Her seminar today is a joint Population Program-EQL production.

Throop Beat

Calendar Reform

by George Harf

The perversities inflicted on humanity by our own calendar are well known. This time, we almost had a real winner: second term registration on Wednesday, January 2, 1974.

Instead, Techers who go home for the holidays will receive a bonus—three weeks' official vacation instead of two. Registration will be held on the Monday following New Year's, January 7. The rest of second and third terms will cycle back a week, relative to this year.

First term remains the same—a shift back would have put grade reports due December 24, an Institute floater holiday. As it stands, the class of 1974 may be the only losers: commencement is now scheduled a week later.

Fishwrap on Friday

After 26 years of publishing on Thursday, the editors of this weekly fishwrap have decided to change to Friday. The main motive behind the change is to effectively add another day for preparing each week's edition, since work seldom begins on an issue before Monday anyway. The first issue to be affected will be the September 28 edition, with the annual Frosh Camp edition appearing Thursday as usual.

Depreciation of the Class of 1975 has reached 25%, with only 164 of the original 218 remaining. Seven of the 54 missing have returned for a second go-around as freshmen. Fifteen Techers have added to the depleted ranks of the sophomores—seven transfers, and four each from the classes of '73 and '74. Sadly, eight of the initial 29 girls are no longer with the class.

Pre-Reg Hassles

The cards may be different, but the game's the same: try to figure out next term's schedule. The tremendous reorganization that the Humanities and Social Science Division has gone through make things a bit more tricky, particularly with the Institute HSS requirement still hanging in the fire. Most—but not all—of the renumbered courses made the course schedule, so be alert. When in doubt, sign up under the listed number; maybe things

will be smoothed out over the summer.

Freshmen signing up for Ma 2 and Ph 2, Track A may have noticed a slight conflict between lectures. How the powers-that-be missed such an obvious clash remains terribly obscure. Dr. Luxemburg, one of Ma 2's lecturers, was very surprised when he learned of the problem. Rest assured, frosh—things will work out for maximum entropy.

Beckman Intern

Sophomore John Land has been selected as the recipient of this year's Arnold O. Beckman Internship for summer work with a federal or state legislator. Land plans to enter law school after graduating from Tech and is considering working in politics. Although final arrangements have not been made, he is hoping to work with Senator John Tunney of California, or with a state legislator from his home town of San Diego.

Last week, both sides of California Boulevard between Hill and Wilson became 24-hour "no-parking" zones, instead of only during the rush hour. Added to the loss of parking along San Pasqual when it closes, the perennial parking problem should be in evidence next fall.

Johnson Indicted?

Rumors of the week: Various members of the infamous "Blattidae Family" have been seen cohabiting the North Kitchen...

Candidates who seem easy winners in tomorrow's class elections may find competition stiffer than meets the eye... Tomorrow is Drop Day.

Caltech Y Sells Random Lost and Found Articles

Everything that remains in the Caltech Y Lost and Found will be sold to the highest bidder. Many random articles will be available, from glasses to slide rules. The auction will take place on Tuesday, May 22 at 12:15 p.m. on the Olive Walk in front of Winnett Center.

PCC Jazz Band in Olive Walk Concert

The PCC Studio Jazz Band will be appearing in an Olive Walk Concert today at noon.

THE CALTECH FORUM

Alum Appreciates Tech Journalism

Your editorial on the Watergate affair under "From the Cerebrum" in The California Tech dated May 3, 1973, impels a statement of personal opinion from an alumnus and his wife who fully agrees.

Apart from all the countless "revealing" journalistic efforts on Watergate with which we have been bombarded from all directions, your article stands as an almost unique example of objective analysis and constructive comment. It deserves to become a piece of required reading for both aspiring journalists and politicians as well as for many who have supposedly arrived.

The country would benefit if such journalism were to receive a broader circulation in the major news media. We hope that you will continue to apply your writing talents to the areas of politics and government. Regardless of what your political affiliations may be, your type of statesmanlike thought is ultimately going to benefit all sides who are primarily concerned with the welfare of the United States and its people.

-Fred A. Wheeler '29

Freedom of Speech vs. Million Dollars

I sent this letter to the editor of our local newspaper. Thought you might be interested.

I have been fascinated by the reporting of the millionaire who cancelled his gift to Caltech because of an impeach Nixon banner. Why do the papers choose such titles as "Students Make \$1 Million Mistake?" It was the students' mistake only if they value the million dollars more than their free speech and their right to express their personal opinion. This is like a parent cutting off allowance when a child has displeased him, even though the purpose of allowance is to teach the child how to handle money.

Reporters, more than most people, should realize that our country works because of personal freedom. Why not report that the real mistake is for the man to feel that he must give his money to an institution that controls students to the point of denying rights granted to us in our Constitution.

-Jean Haimson
85 Michaels Way
Atherton, CA

Turning Scientists Into Engineers

As you may know, the alumni association is sending out questionnaires to alumni. I received one and dutifully filled it out. But when I finished the comments section I realized, for reasons which will be obvious, that I would be making a mistake if I returned it to them. Instead I am sending it to you in the hope that it will be of interest.

-Robert Neveln '67

[Mr. Neveln's comments follow]

I think the function of the undergraduate school at Caltech is to turn aspiring scientists into willing engineers. That this is what Caltech actually does is quite obvious if you think of Frosh Camp and then check the alumni directory. The reason is also obvious, namely that the industries which support Caltech need good engineers.

And if your purpose in this questionnaire is to keep this gristmill running smoothly, then you ought to think what the hell it is you're doing.

THE hot & throbbing RIVET ARE COMING

Sierra Club on Desert

Symposium Coming

The Southern California desert, its resources and problems, will be the subject of a symposium presented by the Sierra Club at the Riverside campus of the University of California Saturday, June 9. The all-day event starts at 9 a.m. and is open to the public without charge.

Featured will be lectures, slide shows, displays and a full-length movie with live narration—all devoted to the Southern California desert. A box lunch may be purchased at noon time for a nominal charge.

The symposium will focus on the Sierra Club's own desert study projects but there will be

some reference to the Bureau of Land Management's Desert Study Plan, and to legislation pending in Congress aimed at protecting the Mojave and Colorado deserts.

A major purpose of the symposium is to introduce to the public the natural beauty and other vital assets of this vast region and to show how much of it is being harmed by indiscriminate use. Some 60 areas between Death Valley and the Mexican border and from the Antelope Valley east to Nevada will be examined in a series of slide shows.

Public participation in this Continued on Page Four

"FRANKLY SPEAKING" by Phil Frank



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The CALIFORNIA Tech

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THE ASCIT FRIDAY NIGHT MOVIE FRENCH CONNECTION This Friday in Baxter Lecture Hall at 7:30 and 9:30 p.m. Admission: 50¢—ASCIT members and their guests; \$1.00—anyone else NEXT WEEK: KLUTE

ASCIT of Massey

# Thrills Coming?

by Philip Massey

*Although no one has apparently noticed it about these articles (possibly because no one reads them), they have become more summaries of the important doings of ASCIT (at least the less unimportant doings), and not so much reports of the last BOD meeting, events which are by no means synonymous. They have also become opinionated, a result*

*no doubt of increasing senility on the part of the writer. Anyway, the events chosen as less unimportant as others, and the opinions expressed herein, are not meant to reflect those of any persons, with the occasional exception of myself.*

Last Monday the BOD refused to endorse a proposal by D. Driscoll and P. Enright to hold a rock band dance this weekend.

They plan to use the gym, posting security guards to keep out all the non-Techers wishing to crash a hot Caltech social event, and promised to have "at least 200 girls there." The Board's decision (2-3-0, Jack and Manis in favor, Coleman, Massey, and Peisner opposing) came after a lengthy discussion as to the lack of desirability of the gym (ASCIT would be responsible for damages, it is way too large, etc.), and the lack of desirability of such events as a "social program." The motion for endorsement was contingent upon their changing the locale to

Dabney Gardens; therefore, it was not the location that caused the Board's decision. There ensued the following dialogue:  
**Beckman:** Mr. Enright, do you realize why there has never been a successful dance here?  
**Driscoll** (choosing to be the straightman): No, why?  
**Beckman:** *Because Techers do not dance!*

**Perspective**

The BOD's decision Monday might be viewed as unimportant in itself as indicative of a general policy, in that some arguments ran that it was too close to the end of the term for the event,

etc. Nevertheless, it came in the wake of a twice defeated by-laws amendment, defeated because, in the opinions of some, Techers do not *want* a social program (or at least not of the kind offered in the past few years), preferring, perhaps, that the money be distributed to the houses for their social events. At least it may be an indication that Techers are tired of having money thrown away on dances that no one shows up at, dances more remindful of high school social events that are bad memories for most Techers. The

Continued on Page Seven

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# Graduating?



**Malmorg for Social Chairman**

# Food Riot Etiquette

by Malmorg N. Plano

The problems faced by the new ASCIT officers are huge. How can they save the *Big T*? How can they find new ways to reform the academic life at Caltech? How can they bring us joy through a bountiful social program? Most importantly, how can they act to stop the relentless encroachment of Food Service?

There have always been troubles with food service. Usually, however, these had to do with the quality of the stuff they stuffed down the throats of Techers. Recently, though, Techers have found more relaxed ways of doing things; no more waited lunches, more informal waited dinners, and, unfortunately, a decline in self-enforcement of the Honor System as it applies to food service. All of this has resulted in the Canteen thinking that not only are the students disorganized and can therefore be taken advantage of (witness the quietly suggested scheme to make all dinners cafeteria style in the North Complex and close the South

Kitchen), but also that they are dishonest and must therefore be chased and spied on all the time.

In the past, various houses tried different solutions when the food got real bad. President Lee DuBridge was invited over for lunch when they were serving hamhocks. When all a waiter could pull out of the brown swill was one bright glistening bone even Dr. DuBridge had to agree that enough was enough.

The most effective method, and that resorted to most frequently when reason failed, was the food riot. After all, what's to lose when you're slowly starving to death and getting heavy metal poisoning at the same time. I believe the going rate for a food riot is \$300, and even this paltry sum is not always collected.

**Food Riots Can Be Fun**

A food riot can be planned as a social event. Two or more houses can participate! You can even invite some girls over! (Scrippies get excited by the slop that's thrown around—LA County General girls get *very* affectionate at the mere *sight* of

all those knives.) Those houses not directly involved can buy shares in the riot for their own members so that they can come on over and join the fun.

Naturally a food riot will be a little hard to start. For one thing, there are only a few guys still around who were ever lucky enough to be in one. Secondly, the current crop of frosh and sophomores seems to be much too inhibited to drink enough to compensate. Still, if necessary, enough "outside agitators" can be brought in from off-campus to really get things going. Just invite a bunch of impoverished but culinarily naive off-campus people to dinner one night with the promise of a "free meal." Watch them get sick and then tell them that in their stupor they just signed a meal card.

Then watch the fun.

Actually most food riots just start spontaneously. During a particularly bad meal somebody suddenly decides he can't take any more of Tech ... not just food service, that's just the last straw ... and then he runs amok. Like a super saturated solution it spreads until for a short blissful cathartic period CHAOS REIGNS!!

Of course it gets kind of

monotonous having to put Food Service back in its place every other year. If you want a *major* overhaul here's an idea: stop contracting Food Service out to outsiders. Caltech people should run the whole show. This includes Chandler Dining Hall and since Chandler is the only restaurant within walking distance the matter obviously does not concern the students alone. I think that a non-profit consortium of students and personnel, which hired and fired its own managers and staff, could do a far better job at only slightly higher cost. In fact with only a very little Techish imagination, the cost of serving meals at Caltech should actually go down.

I have *never* seen one of the Food Service managerial staff eat Food Service food.

**Rotation All Year**

Another possibility is to ask two houses, one in the north complex and one in the south, to contract to take care of meals for a net profit. If this were done on a rotating basis with a faculty-student committee and a permanent clean-up staff to supervise there would be the added factor of competition between the houses to put out the best meals possible for the cost. There are many potentially

great cooks in the houses. This plan would have the added advantage of directing most of the labor costs into paying students or houses who could really use the money.

In fact, why not contract *everything*? Hire Page House, on a profit-necessary basis, to put out the *Big T*! Take bids from Ruddock and Fleming to put out a successful social event! In fact, why not save the honor system and have the BOC take out contracts on Honor System violators. Think of it, locksmiths!

Enough socialism! Ayn Rand has spoken! Let free enterprise reign. Riot now ... you have nothing to lose but your heartburn!

## Sierra Club

Continued from Page Two

fascinating event could contribute toward saving one of America's great natural playgrounds. The symposium will include a question-and-answer session and visitors are invited to submit written and oral comments.

For further information, write the Sierra Club, Angeles Chapter, 2410 Beverly Blvd., Los Angeles, California 90057, or call the Club office at (213)387-6482.



*the critical ear*

Nicky Hopkins

... *The Tin Man Was a Dreamer*  
Columbia KC32074

If you listen to the radio a lot, you have heard several instrumental cuts from this album and wondered what they were. I had heard and enjoyed the song "Edward" a dozen times before knowing its name. When he refrains from singing, Hopkins is an excellent musician. His keyboards are among the best in the business, but he has no more business singing than Al Kooper does. I mean, did Beethoven sing, or Dizzy Gillespie? Anyway, give this one a listen, especially the instrumentals.

rock can be overwhelming and deadly, as at times on the London "Tommy" album, or a strong but controlled blend, as on this album. Gary Brooker's melodies and keyboards overshadow Keith Reid's lyrics on this one, except on "A Souvenir of London," a song about one of the hazards of the trade. On the whole the album is very good if you ever enjoyed any of the music of Procol Harum from earlier albums. I recommend it be given at least a thorough listening to.

—Nick Smith

## International Education Competition for '74 Now Officially Open

The Institute of International Education announced today the official opening of the 1974-75 competition for grants for graduate study or research abroad and for professional training in the creative and performing arts. It is expected that approximately 550 awards to 46 countries will be available for 1974-75.

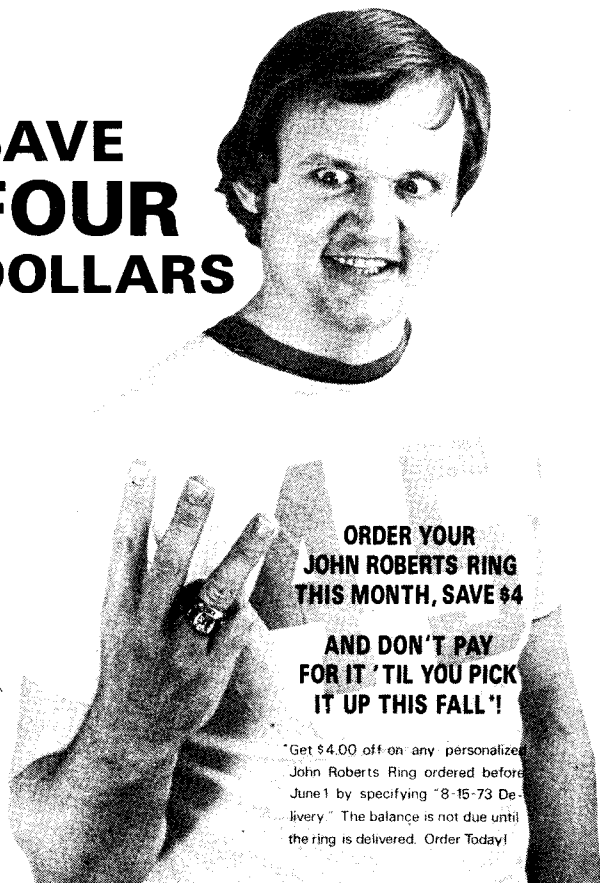
These grants, whose purpose is to increase mutual understanding between the people of the United States and other countries through the exchange of persons, knowledge and skills, are provided under the terms of the Mutual Educational and Cultural

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Procol Harum ... *Grand Hotel*  
Chrysalis CHR1037

The title cut of this album has been getting lots of air play, and deservedly. Procol Harum seems to enjoy working with full orchestras, and once again use one to full advantage. Orchestra/

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# Good-bye, Donner

by Marc Donner

Good news for all you long-suffering readers. This is the last Beckman/Ramó article. The year is almost over and only two events are scheduled. The Troilus and Criseyde stage reading by Spectrum productions will have its first performance tonight. The next will be Saturday, May 19, Thursday, May 24, and Saturday, May 26. The reading will also feature fifteenth-century songs (about a century younger than Chaucer's work). Tickets may be purchased at the door only.

Baxter Lecture Hall, 8:00 p.m.

Next Tuesday, May 22, you are in for a treat. Vladimir Ashkenazy, one of the most renowned of pianists, will deliver a recital in Beckman Auditorium. The program will include the Sonata in A major, K.331 by Wolfgang Mozart; the Sonatas No. 3 (F sharp minor) and No. 5 by Alexander Scriabin and a performance of the brilliant "Pictures at an Exhibition" by Moussorgsky. I'd be surprised if the performance isn't sold out, but give it a try anyway.



Many of you remember Major Hochstetter from "Hogan's Heroes." What you may not realize is that Howard Caine has won many championships on the banjo. Songs such as "Nancy Whiskey" and "Arkansas Traveler" flow as he plays with a style from Appalachia called "frailing," which predates bluegrass by a century. His talent doesn't stop here, however, as he relates in the show how he has to tune 23 strings for a performance, as he plays both six and twelve string guitar. This figure doesn't include the other five strings on the fretless guitar he played the second show. He does justice to a lot of songs that were old when the original recordings were made on 78's, and plays several of Ledbelly's blues pieces.

This week at the Ice House is actor's week, and this leaves me in sort of a quandry as to how to describe L.A. Caberet. Richmond Shepard, Nola Roeper, and Lynn Roth are the center of an improvisational comedy group with music provided by Latif

Allen on piano, and Geoff Edwards and George McKelvey rounding out the group at some of the shows. This is a multi-talented group, with a comedy writer, an actress, and a mime among its members, but very hard to describe. How do you describe an act that changes every show? They provide a format for the improvisations, but the improvisations are totally that. There's only one word to describe the act. Good.

Chuck Mitchell is the featured act. Perhaps the word actor isn't the best word to describe him. Balladeer, as he is billed, is probably more correct. But the term actor isn't all wrong, because Chuck Mitchell communicates with you, playing well-known songs like "City of New Orleans" and "Mr. Bojangles" and some less well-known ones, such as "One Morning In May."

The show at the Ice House this week is the best I've seen this term. It runs until the twentieth.

-Karl Kuhlmann

# Three Alumni Honored

Three alumni received the highest honor the Institute can confer on an alumnus — the Distinguished Alumni Award — in ceremonies Saturday. The recipients were Dr. Harrison H. Schmitt, (BS'57), astronaut and first scientist to visit the moon; Dr. Paul D. Saltman, (BS'49, PhD'53), vice chancellor for academic affairs, the University of California at San Diego; and Dr. Harold S. Mickley, (BS'40, MS'41), executive vice president for technical functions, the Stauffer Chemical Company, Westport, Connecticut.

The Alumni Award, consisting of a silver medallion and certificate, is made to graduates of the Institute for outstanding accomplishment in their field and for making a significant achievement not ordinarily attained by a

Caltech alumnus.

## Moon Darb

Schmitt was selected as a scientist-astronaut by NASA in 1965. Not only was he the first scientist on the moon, flying there on the Apollo 17 mission, he also was backup lunar module pilot for Apollo 15. As an astronaut he also helped train Apollo flight crews in lunar geology and navigation and was involved in integrating scientific activities into the lunar mission and in analyzing lunar samples.

Before coming to the Manned Spacecraft Center, he served with the U.S. Geological Survey's Astrogeological Branch at Flagstaff, Arizona. There he helped map the moon and prepare NASA astronauts to make geological studies during their lunar exploration.

Dr. Saltman, as vice chancellor for academic affairs at UCSD, has earned a reputation for outstanding success in communicating with students and launching innovative educational programs. Previously he was a professor of biology and provost at Revelle College, the University of Southern California.

Mickley came to the Stauffer Chemical Company after a distinguished academic career at the Massachusetts Institute of Technology. He was director of the MIT Center for Advanced Engineering Study and a member of the MIT engineering faculty. He is the author of two books and numerous articles in the fields of applied thermodynamics and fluid mechanics and has served as a consultant to industrial and governmental agencies.

## Corporation

Continued from Page One

many freshmen living off campus, the task of encouraging and enforcing the Honor System will become virtually undoable.

### Liberty, Equality, . . .

In the ensuing discussion, it was pointed out that the increase in the freshman class size has accompanied the admission of women. It appears that the number of men admitted has remained fairly close to constant. Several women undergraduates expressed concern that this might be the result of a faculty attitude which goes something like, "don't take a place in the freshman class away from a man to admit a woman." In any event, cutting the size of the freshman class back to 200 would mean a decrease in the number of men admitted, unless the Institute wished to return to the dark ages, the questioners indicated.

Jack then introduced a resolution calling for rolling back increases in size of the freshman class to about 200 by 1978. "We don't want a frosh class of 150

next year," Jack said in defense of the 1974 target date. The resolution passed by a vote of 135 to 33.

### Funny Money

Bob Fisher presented the issue of solicitation of parents by the Institute. For the past three years, a group encouraged by the Development office called the Parents' Fund has been soliciting contributions from Teachers' parents for various projects. This year, the solicitation has ostensibly been to raise \$20,000 to provide an extra hour of PDP-10 time to undergrads, with any funds raised to be matched by the Institute.

Fisher pointed out that at computing center rates (\$8.50 per hour average), an extra hour per student would cost \$6,800 not \$20,000. It has been learned that the money collected (about \$7000 so far) goes into the General Fund, and that only \$2000 has been earmarked for computer time.

### To Solicit or Not

Fisher stated that many students were annoyed that the Institute was soliciting their parents, many of whom foot enormous tuition bills already, at all. Others expressed a desire that

if parents were to be solicited, that the students should at least have a hand in what they were asked for. Fisher reported that negotiations with the Institute to obtain at least student representation in, if not student control of, solicitations of parents.

Fisher introduced a resolution opposing solicitation of parents for more money for computer time. The resolution carried 155 to 21.

### Funnier Money

Mark Johnson then introduced proposals to get ASCIT into money-making ventures to supplement the \$22/year dues. He mentioned such enterprizes as running vending machines on campus and renting out the ASCIT bus. A resolution advocating Johnson's ideas passed 155 to 15.

The final presentation of the afternoon called for abolition of the grade of F. John Land presented the idea, along with several other proposals including abolition of all letter grades, and the "Stanford Plan" (A-B-C-No Credit). He said that abolishing the F would tend to raise academic standards, since the temptation of professors to "give him a D and let him pass" would be gone. Hence, instead of despoiling a student's GPA and transcript with an F, a professor could just withhold credit until a student actually did the work needed to pass legitimately. The resolution carried 155-20.

### This Meeting Is

Mark Johnson adjourned the meeting somewhat after 5. The meeting marked only the second general corporation meeting in recent years. Joe Rhodes, then a sophomore and newly elected as ASCIT president, called the other corporate meeting in April 1967.

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**Model United Nations**

# "Pursuing That End."

This spring a group of students from Caltech attended the 23rd conference of the Model United Nations of the Far West. The Model United Nations, for those of you unfamiliar with it, is an active workshop in which participating schools represent countries that are actually members of the United Nations. The school is allowed the freedom to make the decisions for the country they represent, provided that they remain within the character of that country.

Caltech represented the African nation of Chad with the team of Dave Larwood, Paul Yancey, Alan Shiller, Bryan Jack, Brian Yandell, Bruce Mickel and advisor Dr. John Ferejohn. Con-

census of opinion was that "our experience in the Model United Nations was both enjoyable and educational. We were exposed to the arts of international diplomacy, caucusing, compromise, debate, and on-the-spot decision making; not to mention late night partying."

In a meeting following the conference, the group decided that they would like to see Caltech participate next year and for many years to come. "We are at present pursuing that end. If you are interested in participating with next year's team, or would like to know more about the Model United Nations, please contact one of the group listed above."

## I.I.E. Grant

Continued from Page Four  
Exchange Act of 1961 (Fulbright-Hays Act) and by foreign governments, universities and private donors.

Applicants must be U.S. citizens at the time of application, who will hold a bachelor's degree or its equivalent before the beginning date of the grant and, in most cases, be proficient in the language of the host country. Except for certain specific awards, candidates may not hold the PhD at the time of application.

**Other Requirements**  
Creative and performing artists

are not required to have a bachelor's degree, but they must have four years of professional study or equivalent experience. Social work applicants must have at least two years of professional experience after the Master of Social Work degree; candidates in medicine must have an M.D. at the time of application.

Selection is based on the academic and/or professional record of the applicant, the validity and feasibility of his proposed study plan, his language preparation and personal qualifications. Preference is given to candidates between 20 and 35 years of age who have not had prior opportunity for extended study or residence abroad.

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Information and application forms may be obtained from Dr. Stirling L. Huntley (204 Dabney). The deadline date for receipt of applications in his office is October 15, 1973.

# Candidates For Election

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John Kessides

**SENIOR CLASS VEEP**  
Dave Larwood

**SENIOR CLASS SECRETARY**  
Peter Beckman

**SENIOR CLASS TREASURER**  
Dave Peisner

**JUNIOR CLASS PRESIDENT**  
Lou Scheffer  
Rik Smoody

**JUNIOR CLASS VEEP**  
Mark Boals  
Dave Novikoff  
Pat Sitton

**JUNIOR CLASS SECRETARY**  
Bruce Schupler  
David Smallberg

**DIRECTOR OF STUDENT LIFE**  
Mark Boals  
Bob Rutherford

**SOCIAL CHAIRMAN**  
Team of Don Driscoll and  
Phil Enright

**JUNIOR CLASS TREASURER**  
Chan Price

**SOPH. CLASS PRESIDENT**  
Jack Bacon  
Marc Donner  
Pat Jenkins  
Pete Theisen  
Howard Zebker

**SOPH. CLASS VEEP**  
Richard Atwater  
Bob Schaff

**SOPH. CLASS SECRETARY**  
Paul Goodson  
Audrey Liebross  
Dennis Wang

**SOPH. CLASS TREASURER**  
Mark Bails  
Thomas Lawler  
Alex Lidow  
Dennis Mallonee

# ISSUES THAT COUNT



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**Hitching**

# Tendency To Paranoia

by Ed Buryn

Hitching as practiced today is a healthy mass-reaction to America's preoccupations with safety and security, money and materialism, police and paranoia. Today's young travelers are putting their faith on the line and their packs on the road. They want freedom and adventure, and traveling by thumb is made to order — it's unpredictable, it's cheap, and it's about people. The wide spread notions about its dangers and illegality only make it more attractive.

Hitching in America is not for everybody. It's long on paranoia and short on comfort. Its pressures can easily distort the experience or warp your vision of America. To do it, you should be a character with character, because hitching is a test of who you are. You need to be confident in the face of doubt, tolerant when victimized by the

weakness of others, tough in order to endure the physical hardships, flexible enough to go with the changing fortunes of the road, and finally you need a sense of humor to ward off the ever-threatening cynicism.

Hitching is a test of humanity because you'll see people at their best and their worst. Some people will crap on you and laugh. Most people will simply ignore you, and that can be even harder.

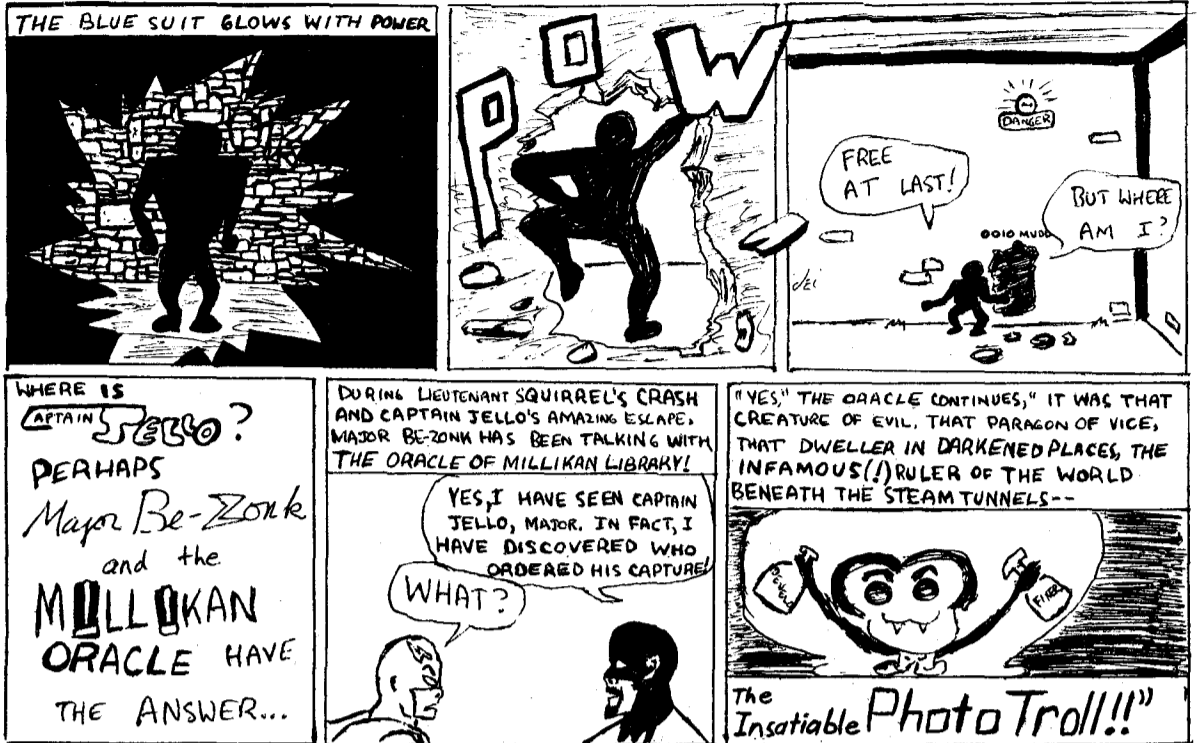
Being on the road means learning to "be here now," taking each moment and extracting whatever it has to offer. You'll stand countless hours in dozens of places, struggling with the mysteries and miseries of reality. Gradually a feeling of contentment and fullness can be reached, no matter how forsaken and weird your situation may be. If it's a skill you want to acquire, then hitchhiking may be for you.

The dangers of hitching are real but over-emphasized. The number of victim-hitchhikers is small compared to the number of hitchhikers. But there are rapes, robberies, beatings, accidents, and even murders once in a while. There are police arrests, fines, and jail. However, that's where we're at as a country, and violence and injustice victimize not just hitchers but everyone at random. Hitchers are more exposed, however, and do run somewhat more risk. Yet it's foolish to expect the worst or fear that possibility constantly. Expect the best from people and you'll usually get it. People can be wonderful, especially to hitchhikers.

Hitching is technically illegal in only 8 states (AR, CT, DE, ME, NV, NJ, ND, WY) but this doesn't mean much. What actually happens is that police anywhere can hassle you if they feel

## THE ADVENTURES of the TECH TRIO

by H. Wink & D. O'Malley



WHERE IS CAPTAIN JELLO? PERHAPS Major Be-Zonk and the MILLIKAN ORACLE HAVE THE ANSWER...

like it. And they frequently do. Always carry ID with you (or you'll be considered a runaway). Cash or traveler's checks will prevent a vagrancy charge. Hitching on freeways, interstates, and toll roads is always forbidden but you can stand at the access roads (in front of the NO PEDESTRIANS sign) and legally catch rides.

The best hitching combination is a man and woman together. Two guys will get there OK, but it'll take much longer. A single man will have no trouble, but a woman traveling alone takes an unnecessary risk. Two girls traveling together is feasible, but not fool-proof. Bring a frameless pack (a frame is too bulky), food and water (for those times you may get stranded in the desert or the boondocks), camping equipment, a road atlas, and a sign announcing your destination. The best source of information as you go are other hitchers and travelers; always check into the grapevine wherever you can.

### Gotta Lotta Books?

## Send Them by Mail

by Etaoin Schroedlu

For those Techers who find themselves possessed of rapidly-increasing numbers of books (a congenital trait of the species), the U.S. Postal Disservice provides a special dispensation: 4th Class Book Rate. The cost of this class of mail is 14 cents for the first pound and 7 cents for additional pounds, up to a maximum of 70 pounds or 84" in girth and length. (This is more than adequate unless you plan to send a trunk, in which case Greyhound is better.) It's amazing how many paperbacks you can get into about 70 cents worth of 4th Class Book. Packing need not be very

aesthetic, but should be fairly strong: the U.S.P.S. is almost guaranteed to kick it around a bit. Sturdy shipping boxes can often be found at the Bookstore dumpster, at the northwest corner of Winnett Center. Use several rounds of string or tape for securing; wrapping paper is not necessary. Be sure to write "4th Class BOOK Rate" all over the box, or someone may try to charge you a higher rate. Allow anywhere from one to eight weeks for delivery, depending on distance and various other indeterminate variables. The P.O.-Mail Room in Parkinson at California and Wilson can mail the packages for you.

### ASCIT

Continued from Page Three  
scarcity of candidates in tomorrow's election (two for Director of Student Life, and the team of Driscoll and Enright are unopposed for Social Chairman) is another sign. The BOD's move at the end of this Monday's meeting to alter Resolution VII to delete the salary for the social chairman is another indication.

#### Imagination, Probably

Furthermore, the unwillingness or lack of imagination of social chairman to do anything different may have had a lot to do with it. Such events as the Hillel's program last week (overwhelmingly attended), the sold-out-for-two-years ASCIT Musical, and the stampede for the Bradbury-Clarke debate last year are all indications that the problem is not that all "people around here want to do is sit in their rooms and troll." Yet

events like this are a rarity for one thing; they're a rarity in that they are well attended. Yet the best the new candidates for social chairmen can come up with is another dance, refusing to believe that there are any other social events that can exist, that there are perhaps better ways of promoting social life than bringing girls to campus for Techers to meet at dances. House events such as Scrippses live-ins, trips to Disneyland (with dates found for people, rides provided, and tickets subsidized), have all been successful. Asked if they could think of any alternatives to dances, the candidates for social chairmen replied that what Techers wanted was to meet girls at dances, and aside from one suggestion that was probably meant in jest, could not come up with any other way of spending \$400 on an event. It looks like another thrilling year.

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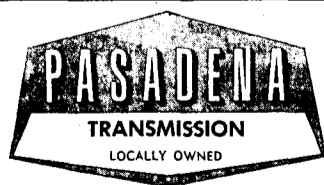
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Page Eight

Thursday, May 17, 1973

# Tennis Team Takes Two

by Bob Kieckhefer

Caltech's tennis team finished the 1973 season with a 7-2 victory over Pasadena Nazareth, in one of the few bright points of the season. The team's only other victory was against Northrup Institute in the first match of the year.

Tech won four of six singles matches against Pasadena. Dave Dummit took second singles, Bruce Eisenhart won third singles, Ram Rao took fifth singles, and Greg Zima won sixth singles.

### Doubles Sweep

The Techers needed only one victory in doubles to win the match, but the scent of victory led them to a sweep. Dummit and Eisenhart won first doubles, Mo Nakatsui and Pat McCrea took second doubles, and Ram Rao and Cliff Leong won third doubles to give Tech the 7-2 victory.

## Magazine Aids

### Novice Writers

*The New Writer*, a magazine devoted exclusively to quality short stories by student authors and offering a paying market for novices, will be published this fall in New York City.

The magazine, while focusing on fiction, also will include an open forum for reader views, interviews and profiles of teachers and students, and articles by instructors and notables in the literary field.

*The New Writer* is being published by Constance Glickman, instructor, journalist, author, and Gladys Gold, journalist and author.

"We believe encouraging talented new writers, and developing critical readers of the short story to be the best way to revitalize the whole fiction field," state the publishers.

Stories from students enrolled in any college, university, community writer's workshop, or writer's groups within institutions, adult education, and continuing education programs will be considered for publication.

Final selections of short stories for each issue will be made by a board of prominent educators and editors directed by Alice S. Morris, former chief literary editor of Harper's Bazaar and instructor of writers at the New School for Social Research in New York.

Information concerning subscriptions and rules for submission of manuscripts may be obtained by writing to the publishers of *The New Writer* at Workshop Publications, 507 Fifth Avenue, New York, NY 10017.

In action earlier in the season, the netmen dropped a 6-2 match to Whittier and lost 7-2 to La Verne. Eisenhart and Alan Shusterman won matches against Whittier and teams of Dummit and Eisenhart (first doubles) and McCrea and Nakatsui (second doubles) defeated La Verne oppo-

nents. The members of the team have been participating in the Scott Tennis Tournament since the season ended two weeks ago. In the finals, held Tuesday, Nakatsui defeated Eisenhart, 6-2, 6-1, to win the Scott Trophy.

### With Wings?

## Look: A Flying Mountain!

A flying mountain of rock about two miles wide, believed to be the skeletal remains of a comet, has been discovered whirling past the earth some 25 million miles out in space.

The find was made by scientists from the Hale Observatories and the California Institute of Technology with the 48-inch Schmidt telescope at Palomar Observatory. The massive chunk of stone is the 14th such object, called Apollo-type asteroids or Apollo group objects, to be found in the solar system.

The newest one was discovered by Charles Kowal, research assistant in astrophysics at the Hale Observatories. Kowal detected it as a streak of light on a photographic plate he made while searching for supernovae.

An initial follow-up sighting, necessary to establish its orbit, was made by Eleanor K. Helin, associate scientist at Caltech. Mrs. Helin is a co-investigator with Dr. Eugene Shoemaker, professor of geology, in a search program for new Apollo asteroids. A third sighting was made by Paul Wild in Berne, Switzerland.

### Comet Debris

Both Shoemaker and Kowal believe the Apollo-type asteroids probably are the remnants of comets that have burned their gases and are left with only a nucleus of stone. Their orbits are unlike those of the typical asteroids that the Apollo-type asteroids resemble in appearance. Ordinary asteroids also are large rocks, but most of them orbit the sun in a well-defined area between the planets Mars and Jupiter. The Apollo-type asteroids sweep near the sun and then whip far out in elliptical orbits beyond Mars, returning periodically.

Preliminary calculations of its orbit, computed by Brian Marsden, of the Smithsonian Astrophysical Observatory, indicate that the new Apollo-type asteroid can be expected to pass the earth every two years. If it can be found on two subsequent revolutions, Kowal will have the privilege of naming it.

His present choice is "Loretta," after his daughter.

However, he adds that these objects are among the most elusive in the solar system and that the new one will be difficult to find on two subsequent revolutions.

### Hide and Seek

Kowal explained that both comets and Apollo-type asteroids frequently become lost to man's observation. In the past, the odds against finding them were overwhelming. But modern technology and greater understanding of the forces that affect their orbits are helping scientists to rediscover some that have been missing for a long time.

"In order to understand how these objects come into being and what kind of life history they have, we need to follow them over a period of time," Kowal said. "As we learn more about their origin, their evolution, and their structure, we learn more about the history and evolution of the solar system itself."

### The Paradise Syndrome

Another reason why the search is important is because estimates indicate that "every few million years one of the Apollo asteroids collides with the earth," Kowal said. "There are evidences of craters in Africa that may have resulted from such a collision."

"Even though the chances of such impact are slight, it would be worthwhile to know how many Apollo-type asteroids there are and to keep watch on them to learn how often such collisions might be expected. This would be of particular interest to geologists in correlating the frequency of impacts with the number of large craterlike areas already on the earth."

## Racers Run Rampant In Riverside Race; Ready for Redlands

by Engineer Bill

Tech's trackmen took a breather from post-season championship competition by running in the seventh annual Riverside Invitational. This 57-event meet, which lasted over five hours, was non-scoring.

Haywood Robinson, the best sprinter in Caltech history, turned in times of 10.1 and 22.4 in the hundred and 220 dashes. His efforts gave his third and second, respectively, in the top-seeded heats of those two events.

A 9:30.3 two mile effort gave Greg Griffin fourth place in his top-ranked heat. Griffin's recent concentration on road work may account for this relatively slow time, as opposed to his 9:19 record pace.

Al Kleinsasser, with a change of pace from his usual middle distances, ran a personal best 440 time of 49.4, giving him an impressive first place in the second-ranked quarter-mile.

### District Championships

Tomorrow and Saturday the Beavers will be at Redlands, competing in the NAIA District III Championships. Kleinsasser, with the best time in the district this season (1:52.2) should win the half-mile. Robinson shares the top district mark, 9.7 in the hundred. Haywood will also be in the 220, an event where he is very highly ranked in the District.

Greg Griffin may double in the three and six mile runs. However, he will most likely switch to the 26-mile marathon at next week's NAIA Nationals. Greg Hoyt will be in the district intermediate hurdles, while versatile freshman Brent Sweitzer will compete in the ten-event, two-day decathlon at Redlands. Retiring head coach Burt LaBrucherie, recovering from recent surgery, will try his darndest to be at Redlands to watch his men compete.

Following the district meet is the NAIA Nationals, at Arkadelphia, Arkansas. The three-day meet will start on Wednesday, May 23, and finish on May 25. Kleinsasser, Robinson, and Griffin will probably make the journey.

## C-HM Batsmen Beat Beaver Baseballers

by J. Random Baseballer

Caltech lost the last two games of its baseball season in a respectable fashion Saturday. We were playing Claremont-Harvey Mudd. In the first game Rich Mitchell's pitching started off a little weak, as C-HM scored on a single, two wild pitches and a stolen base. We tied the score that inning when Bob Pleva walked, John Dilles singled a grounder down the thirdbase line, and Jerry Feely hit Pleva home with a single that actually went right to their short-stop, who seemed a bit confused. In the third inning they scored two, but we tied it up again in the fifth. Rich Short got on base on a hit to right field, Tom Howell hit a triple to deep center, and Dilles hit Howell in. They got four more runs in the sixth and seventh which we couldn't match.

The second game was somewhat less satisfactory. Tom Howell scored the only run in the first. Tech closes its season having won 5 games and lost 20. We won three conference games this year, two against Pomona and one against Oxy.

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CHM.....102 002 2-7 8 0  
CIT.....100 020 0-3 6 3

CHM.....200 014 020-9 8 0  
CIT.....100 000 000-1 4 1

## Option Choices

Continued from Page One

Chem.E., Chem, and Engineering. No one opted for the ISP program this year, as opposed to two last year.

Will Math hold onto first place through the remaining selection cards to be tabulated? Will Johnson survive the election scandal? See next week's *Tech* to find out.

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