

Up, Up, and Away

Where Does Our Money Go?

by Rick Martin and Phil Neches

The cost of everything is going up, and Caltech students are likely to see this reflected in their Room and Board bills next year. Ken Hall, manager of food service, reports that their direct costs for meat have risen 8% just within the last month, for example.

Room and Board contracts have gone up every year since 1969. Starting from \$1100 in '69-'70, the charge went to \$1160 in '70-'71, \$1225 in '71-'72, and \$1250 this year.

Rising Costs

These price increases have been tied to increased costs.

From June 1966 to June 1972, wages have risen 10%, benefits by 71%, cost of maintenance and repairs by 99%, costs of utilities by a whopping 123%, and telephone service by 70%.

Ken Hall provided the figures on costs of board contracts shown in Figure 1. They reflect costs to Canteen Corp. for January to November, 1972. During that period, Canteen suffered a 3.5% loss on its contract with Caltech.

Room for Change

Figure 2 gives a breakdown for room contract. Total income on room contracts was \$292,000 last year, against total expenses of \$291,000. In giving the

figures, Robert Gang, Manager of Residence and Dining Halls, explained that 23.4% of the costs of room contracts are indirect costs, assigned by the Institute.

The Institute has three categories of indirect costs: Maintenance and Repairs (M&R), Operations and Maintenance (O&M), and General and Administrative (G&A). The first (M&R) pays for repair work done by B&G and for gardening. About 75% of this charge goes for labor.

O&M&G&A&Ted&Alice

The O&M charge goes to pay a part of the Institute's fixed expenses for things which everyone uses but are too hard to

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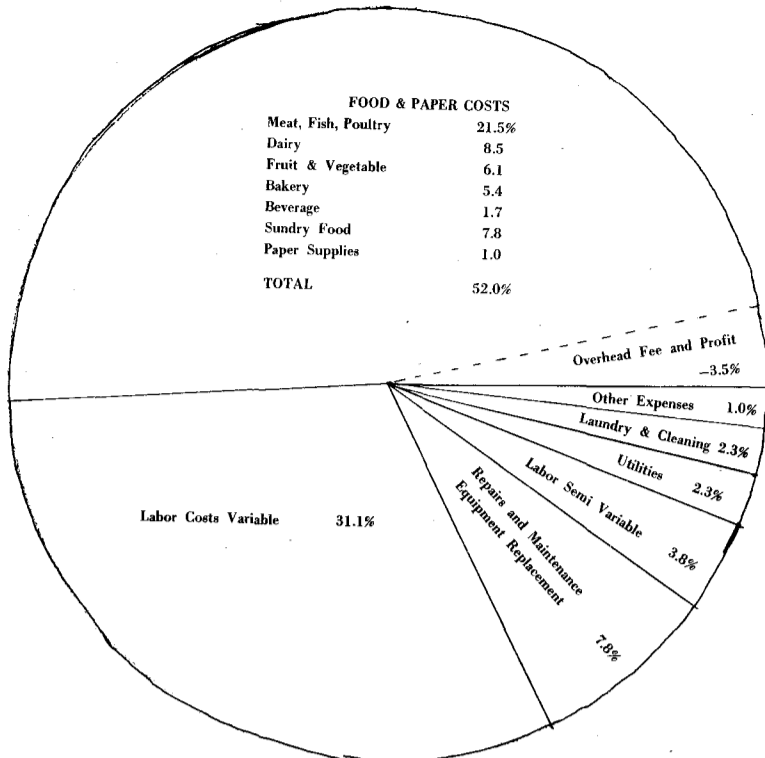


FIGURE 1—Board Contract Breakdown

HEY!! — Let's put the snake in this issue and scare everyone to death!

The CALIFORNIA Tech



Volume LXXIV

Pasadena, California, Thursday, April 5, 1973

Number 23

Tech Trolls Take Terrible Test—Team Triumphs

by Eric Eichorn

Caltech students took four of the top 10 positions in the 33rd annual William Lowell Putman Mathematical Competition.

Placing in the top six (ranking within this group is not announced) were Arthur Rubin and Mike Yoder, each of whom won \$250 for their individual placing. Bruce Reznick won \$100 for his individual rank of seventh, while James Shearer took tenth place, winning \$100.

Teamwork

Caltech's team, consisting of Rubin, Yoder, and Reznick, took first place as a team. They won an additional \$100 each, and \$500 for the Math Department, to be used for prizes in undergrad math contests. Team ranking is determined by adding the individual ranks of the three team members. It is worthy of note that if Caltech's team had consisted of its fourth, fifth, and sixth best, instead of its top three, it still would have been the top ranking team.

Other Techers who competed were Dave Dummit who placed at 11½ and Robert Fisher at 28, who won \$25 each, and Tom Howell at 99½.

The team sponsor was Gary Lorden, Associate Professor in math at Caltech.



EX-PRESIDENT HAROLD BROWN receives the customary blindfold just prior to his execution. Right: New president of Caltech, Mark Johnson, after receiving the customary welcome. Details follow... on page seven.

HSS Numbering Changes

by Etaoin Schroedlu

The Faculty Curriculum Committee has approved massive renumbering of courses within the Humanities and Social Sciences Division at Caltech, and several proposed course additions and deletions. The renumberings were designed to ensure that a Divisional course will be available for frosh humanities credit if it is numbered less than 10.

The following courses have been renumbered upward: En 5abc will be listed as En 108, Twentieth Century American Literature, Pl 1 will be known as Pl 17; Pl 3 as Pl 18; Pl 4 as Pl 19; and Pl 9 as Pl 20. Pl 14 will be renumbered downward to Pl 4. (Got all that?)

Who Cares?

The Psy courses will be renumbered to Psy 11, 12, and

13, An 1 will become An 11, and the Music courses will also not be available to freshmen.

New courses will include En 105, *The Colonial Background and the Beginnings of American Nationalism* (to be taught by a new Literature instructor first term next year), En 106, *The American Renaissance*, and En 107, *The Gilded Age*. The History Department will offer H 6abc, *American Life and Thought*, H 8abc, *Introduction to Asia*, H 23, *Cultural History of Early Medieval Europe*, and H 24, *Cultural History of the High Middle Ages and Renaissance*.

Political Science offerings will include PS 1, 2, and 3, one-term courses on political psychology, group processes and political behavior, and stratification and community power. There will also be an introductory course on American politics, PS 8.

The SS Are Coming!

The relatively new social science offerings will include SS 240, *Techniques of Policy Research*, and SS 241ab, *Workshop in Policy Research*, both to be taught by Roger Noll, former student and instructor at Caltech, who is returning to our faculty next year.

There will also be a series on American Politics, titled SS 231.

The Curriculum Committee did not take action on a proposed substitution of a new sequence of introductory eco-

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Dirty Dave Says: Frosh On Campus (Maybe)!

by Ray Spears

In an interview this Tuesday with the California Tech, Master of Student Houses Dave Smith explained that no conclusions had yet been reached regarding the problem of on-campus housing for all incoming freshmen. It had been rumored that the recently formed Faculty Committee on Housing had planned to demand that a certain number of sophomores and juniors move off campus from each House next year, in order to make room for incoming freshmen without the creation of bunk doubles and triples; however, Dr. Smith said that this was only one plan under discussion, and the issue was by no means closed.

This year, some sixty freshman started first term off-campus, and there had been some concern on the part of various faculty members that the

freshmen were not all getting a chance to experience House Life, and that this was in some way adversely affecting their performance. Dr. Smith said that there was no data on this contention one way or the other, and that before any decisions could be reached some estimate of the effect on incoming freshmen of off-campus living would have to be determined.

Joe Carlsen, Student Representative on the Housing Committee, has said that he is concerned about the effect on the Houses of having to choose which of their members are to move off campus should that become necessary. Such a decision is bound to cause friction in any house, particularly since more upperclassmen each year are choosing to stay on. But Dr. Smith explained that a large part

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News Briefs

ESC Meeting Tonight

There will be an E.S.C. meeting tonight (Thursday) at 7:30 p.m. in Winnett Lounge. One Representative from each house and anyone interested in becoming ASCIT Social Chairman is invited.

Student Shop Check-in Meeting

Anyone who wants to join the shop this term must attend a check-in meeting Saturday, April 7, at 1:00 p.m. The cost is \$3

with a \$5 deposit for this term. As this is the only meeting this term you must show up if you want to become a member this year.

A Spring's Totem or, F=kx

Caltech's literary-art collection, *Totem*, is once again looking for material. Contributions of poetry, short stories, art work, photographs, and whatever else,

Last Year's

BIG T

Is Here!

Get Yours In Flora's Office Today!

Editorial

Credit For All HSS

Back in 1921, the Board of Trustees of the newly-named California Institute of Technology affirmed that one of the objectives of the Institute would be to "teach the humanities and social sciences," for they would form a vital part of the education of science and engineering students Caltech would attempt to offer. After 52 years, few challenge the wisdom of their decision. In fact, a student-run poll conducted last term showed 75% of the 220 respondents favoring the idea of a HSS requirement. What is now the major question among faculty and students alike is the make-up of that requirement.

Two proposals—one from the Humanities and Social Sciences Division, and the other from the Curriculum Committee—can both be considered less "restrictive" than the present requirement. Neither includes the flat 27 units of English requirements. Where they differ is mainly in regard to what courses should have a subsidiary requirement tagged onto them, and which should receive no HSS credit at all.

The details of each one have been elaborated on in last week's Tech. We favor the proposal of the Curriculum Committee. In our opinion, the courses eliminated from credit in the HSS proposal are courses whose completion will achieve the overall objective.

Furthermore, the various option and institute requirements would make these non-credited courses difficult for many Techers to take, without sacrificing non-required courses more directly related to their main interests. Thus, the HSS proposal, by not counting most language and economics courses, would make these even harder to fit in.

The Curriculum Committee proposal, while requiring 27 more units in selected areas (still 108 units total), is flexible enough for almost all, if not all, Techers. We feel it should be adopted.

—Gavin D. Claypool
Eric H. Eichorn
Dennis L. Mallonee

They Want Blood

by Gary Wakai

It's not even midterms yet, but already they're asking for blood. However, since it's the Red Cross that's doing the asking, it's something you should consider. After all, what's a little plasma to a robust, healthy Techer like you?

This term the drive will take place Friday, April 13, from 10:50 a.m. to 3:30 p.m., with appointments every twenty minutes. As in October, Dabney Lounge will be used as the donation center. You can sign up with Paul Manis (145 Page), Gary Wakai (136 Page), or Lee Crevier (x2374).

Think of what it means to someone who needs the blood—think of what it could mean to you. That's been the standard pitch for quite some time, but it's still true.

For all you potential first-timers, there are many advantages that donating blood will get you. Once they drain a measly pint of your hemoglobin (which will magically reappear in your bod in a short while), you have opened a blood account with the Red Cross. This entitles you to as much free blood as the amount you have given, when you need it. Blood can cost

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ASCIT

Okie to Screw BOD?

by Philip Massey

In a meeting that has been described by onlookers as "funny," and by a participant as "funny up to a point," the BOD met last Monday and did all sorts of funny things.

Pirated Again

Dave Peisner stated that since the motion some weeks ago to give the ASCIT musical \$200 and a \$200 loan was budgetary, it required a 2/3 vote to pass and hence failed, and suggested delaying any additional motion until a representative for the production could be present. It was pointed out that: 1) the Musical was to take place in a very few weeks, 2) the BOD had told them they could have the money and it wasn't very fair to surprise them when they came for it, 3) the Musical was one of the very few worthwhile events that ASCIT was connected with in any way. Lohr stated that the Musical was one of the few decent musical opportunities that existed at Tech. Peisner pointed out that they still owed the BOD money from last year. Massey pointed out that this huge debt amounted to some \$16, and made an undiplomatic remark about Peisner's suggestions. Neches made a further undiplomatic remark. Coleman wanted to give them the money. Mariani agreed to change his vote to an abstain, and Kreugar decided to vote in favor of the original motion. The original motion passed, 6-1-1, with Peisner still opposing.

Mariani complained that Peisner was only willing to give the coffeehouse a third of the money budgeted them for improvements, and that dispensing the money in thirds wasn't going to help them buy two new freezers. Peisner complained that there was a lack of cash. Someone suggested writing a check. It was decided that as soon as the money became available (on the order of two weeks), Peisner would give the coffeehouse \$600.

Fractured Flickers

Ed O'Rourke and the BOD

discussed the movies. Johnson wanted to freeze the price of the movies so that activities chairmen with grudges against the BOD couldn't screw the BOD by showing free movies and losing \$200. O'Rourke questioned the legality of such a resolution and added that he had no plans, at the present, to screw the BOD, and that if he changed his mind and did decide to screw the BOD, he would first warn them. Mariani suggested that the BOD and the Activities Chairman learn to co-exist, and that any action on the part of the BOD was uncalled for at present. Denker agreed. Coleman agreed. Massey agreed. Johnson didn't agree. The matter was tabled.

Time Change

The BOD meetings will now be held on Monday. Furthermore, at the request of the Tech and the Big T, the BOD Romper Room is moving back upstairs, and the Big T is moving back downstairs. This is so that the publications (Tech, Big T, little t, Totem) can have more space, which is desperately needed. The BOD decided to accept Flora's bribe of a rug.

Warm Cokes

The cokes were warm, and Kreuger ran out of donuts. He agreed not to let it happen again. Jack's chair sprung a leak, and sometime around then Mallonee was railroaded into the Excom, and Shaff was given the non-existent position of summer game-room chairman. Jack got some tape and tried to fix his chair. He succeeded.

Meetings and Tennis

Johnson brought up the suggestion of a mixed faculty/student tennis championship. Denker acknowledged that the idea was unusual. Mallonee agreed it was an idea. Johnson added that he expects each member of the BOD to "dig up a faculty member and play with him." Johnson followed this act by bringing up the possibility (again) of holding a corporation meeting: i.e., a meeting of ASCIT. Mallonee suggested

charging admission. Kreuger suggested that such a meeting would be worthwhile if there was some sort of feedback. Claypool did not see any reason for holding a meeting in which BOD members would "tell the students what they were doing;" the Tech might be a better medium for that. Massey didn't understand why Johnson wanted to have the meeting. Johnson explained it again. Massey still doesn't understand it. Johnson added that he, personally, was willing to risk not having anyone show up. The matter was tabled, and chaired.

ASCIT is getting a van, perhaps to be used for shuttle to Oxy and Scripps. Wakai will be in charge of it. Class elections will be held May 4 (Friday), with nominations opening and closing on April 19 and May 1.

So ended another meeting.

Campus Frosh

Continued from Page One

of the problem of overcrowding derived from "upperclassmen [who] will reserve the room, use it for a month or two, and then move off."

He also added that the admissions committee did not seem inclined to reduce the number of incoming freshmen to what might seem to be a more manageable level.

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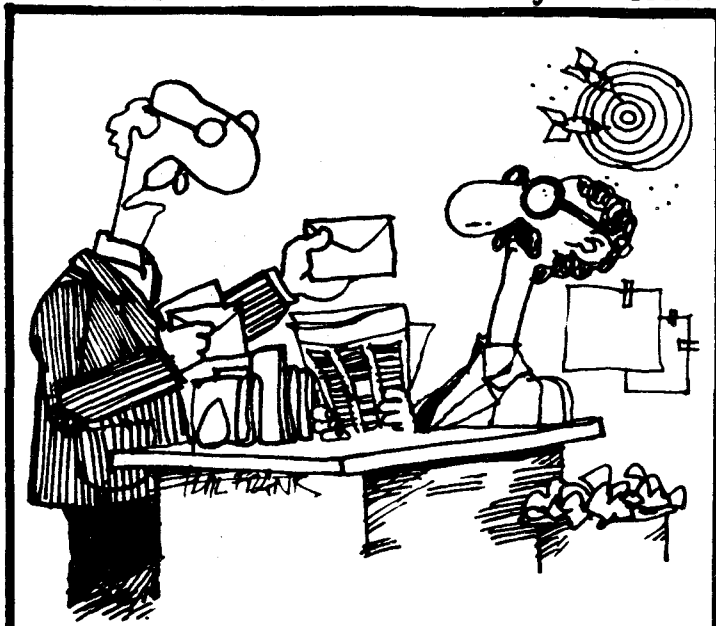
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FRANKLY SPEAKING

by Phil Frank



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NEXT WEEK:
BUTCH CASSIDY AND THE SUNDANCE KID

Faculty Board

About Pass-Fail...

by Jackson Anders

Many interesting topics will be up for discussion at next Monday's meeting of the Faculty Board. Included in the agenda are material on the format of the 108-unit Humanities Requirement, pass-fail grading of courses, sponsored research, the graduate study committee, foreign languages instruction, and rearrangement of courses in HSS, biology, chemical engineering, astronomy, and physics.

The HSS division and curriculum committee reports on the Humanities Requirement will be discussed. (See last week's *California Tech* for details of these proposals.) Chairman Huttenback's memo responding to the Curriculum Committee's proposal was included; Huttenback felt that the decision of which courses represent a 'humane' approach must be left to the division itself, as they are 'professionally more competent to judge than any other body.' The original HSS division proposal was referred to as 'a very delicate structure which does not lend itself to amendment.'

I Have Right Here

Huttenback states that 'the 108 units provide students an opportunity to gain an education in areas which might otherwise be denied them.' He then criticizes the Curriculum Committee for proposing 54 units of the 108 be restricted to English, History, Philosophy, and the Arts, noting that 'for some strange reason languages are excluded' from this list. (Ed. Note: This seems a trifle incon-

sistent, since the Division had been trying not to have the first year of languages count at all toward the 108.) The memo also claims that restriction of 54 units to the above courses 'places the social sciences (in which we have an excellent faculty) and the students at a gross disadvantage.' (Ed. Note: An earlier HSS proposal would have excluded many technical social science courses from counting toward the 108 requirement.)

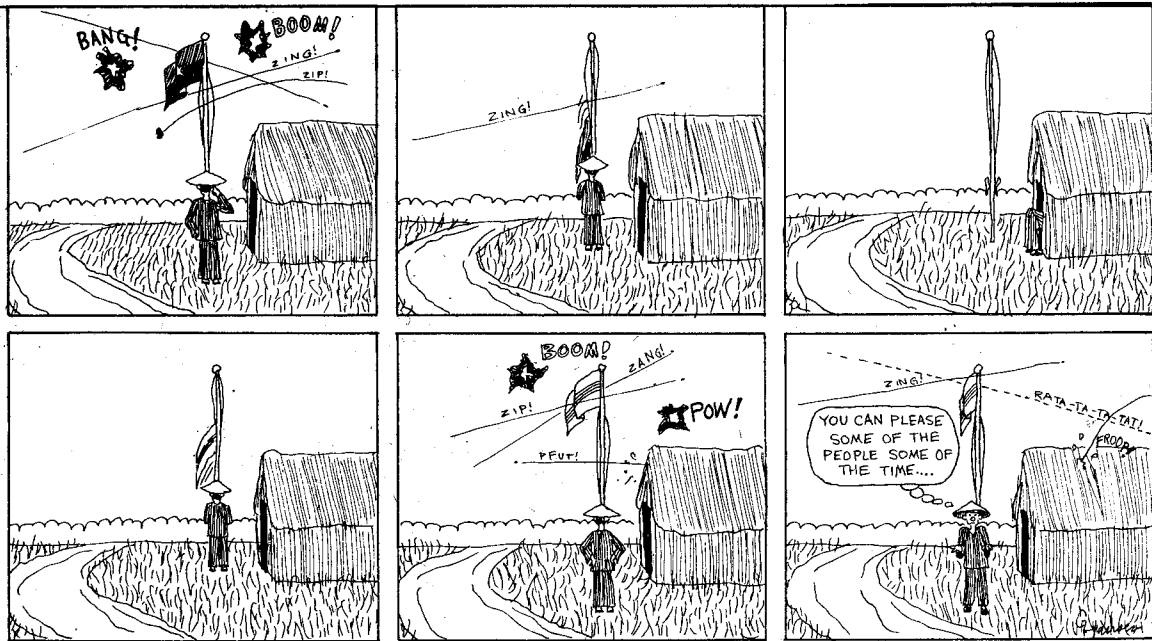
Huttenback concludes by noting that 'based on the above argument and a strong feeling that students should be allowed a maximum of free choice, I am inclined to think that the Curriculum Committee proposal would only be acceptable to the Division if the 54 units reserved to English, History, Art, Music, and Philosophy were reduced to 27.' (Ed. Note: The Division currently requires 27 units in English alone.) 'It is also possible that the Faculty discussion meeting of April 6 may cause some change of view.'

A List of 57

The Undergraduate Standards and Honors Committee is bringing up several questions about pass-fail grading, requesting policy decisions on the following points:

- 1) May an instructor give letter grades and pass grades to upperclassmen in a course, if the pass grades are not authorized by use of a pass-fail card?
- 2) May an instructor offer a course pass-fail and award grades to students who do extra work?

Continued on Page Seven



Let Me Say This...

NO MORE F's

by Mark Johnson

Currently Caltech transcripts record the grade "F" for those courses in which a student does not demonstrate an acceptable proficiency. On the transcript this grade is explained by the single word "failed." Without mention of precisely what it was that the student failed, or why.

Generally what it means is that the student failed either to turn in his drop card on time or to assess correctly his abilities in a particular course. This means that the Caltech transcript is first a historic record of promises that the student has made, and a measure of his performance second.

I think we should ask: Is this what the transcript is meant to reflect? Or is it meant to be a record of the skills and abilities of the student? If we desire the

second interpretation of the transcript, as I think we should, then the grade "F" is of doubtful value, and should be dropped, which is what I propose we do.

It is fair to ask what would happen if we dropped the "F" on transcripts. This does not mean that students would no longer flunk out, but that the criteria for academic ineligibility would be changed. Instead of a 1.4 GPA per term a student might have to pass 36 units (the minimum load) or 27 units (39 - 9). For a year a student might be required to pass 108 units (36.3) or 99 (36.3-9) with a GPA of 1.9. A student who had been reinstated might be required to carry 45 units or 36 units in the following term. These numbers are of course somewhat discretionary but they are realistic and show how such a system could work.

Courses necessitating demonstrable proficiency, or which

were required, would still have to be re-taken and, if passed, the transcript would show the second grade. Furthermore, the net result would be to raise the academic standards at Caltech. A passing grade would really be a passing grade and not a gift. This might also help bring to life what has been called "a good C."

Finally it should be noted that while this suggestion makes the transcript a record of abilities, it in no way dilutes the impact of performance. Students would still have to graduate in four years and they would still have to satisfy the same requirements. All that would change is that instead of the current historic record, we would have a record of accomplishments.

Let me close by saying that I would welcome and appreciate any comments or questions from the Caltech community at large.

Pirates Are Coming

Remember please that the Pirates are coming (*The Pirates of Penzance*—April 19-21 in Ramo). This gem is brought to you by the folks who produced *H.M.S. Pinafore* (gasp!).

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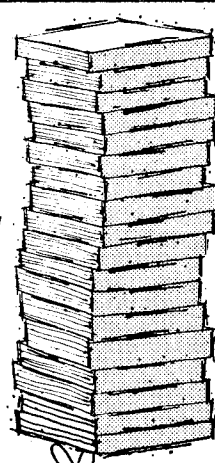
Active duty requirements are fair. Basically, you serve one year as a commissioned officer for each year you've participated in the program, with a two year minimum. You may apply for a scholarship with either the Army, Navy or Air Force, and know that upon entering active duty you'll have rank and duties in keeping with your professional training.

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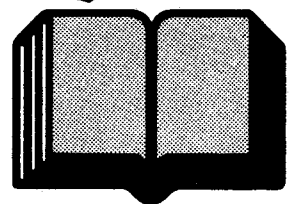
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audience

From two of the best seats in Beckman I watched and listened to Julian Bream play the guitar and lute three weeks ago (March 15).

Mr. Bream played the first half of the concert on the lute, playing a selection of French, Italian, and English Renaissance pieces. Mr Bream, usually considered one of the foremost lutenists of this day, did not impress me as much as his records do. He seemed not to care about playing in Pasadena as much as he would in New York or Washington. Not surprising, I suppose, but disappointing to those of us who happen to be in Pasadena. At one point, playing a piece by Milano, he seemed to be trying to get home as soon as possible, racing through the concert at breakneck speed.

Bream did not make much use from the history file . . .

• 25 years ago this week: Dr. Robert A. Millikan celebrated his 80th birthday with a dinner at the Athenaeum.

• 15 years ago this week: S. Radhakrishnan was at Tech for a three-day visit to the Y, while Dr. Wolfgang Pauli was closing out a week-long stay.

• 10 years ago this week: The baseball team defeated C-HM by a score of 3-1. It was the first conference win for Caltech in 34 attempts.

• 5 years ago today: Gene McCarthy came to campus to speak. He was exhausted. Nick Smith was still ASCIT Representative-at-Large (he had not been impeached). The Stuffed Beaver mysteriously reappeared.

of the volume range of the lute, but as it is so narrow, it may be only that my poor ears missed it. He did make excellent use of the tonal variation of the lute, and even more with the guitar.

The second half, with the guitar, more than made up for the first, which seemed a warm-up for the *Overture in A*, opus 61 by Mauro Giuliani, which was incredibly well done. Everything was perfect in this one. This piece seemed to be the epitome of what good guitar music should be like.

Following this great work were three bagatelles by William Walton. These pieces, completed in 1972, were written expressly for Julian Bream, who continued to display the technical excellence revealed in the previous piece.

Mr. Bream concluded the scheduled program with the seemingly obligatory offering from classical Spanish guitar music, which consisted of three excellently played pieces by Turina.

The audience wildly acclaimed Mr. Bream's performance and with standing ovations and shouts of "bravo" induced him to play two encores, the *Gavotte for the 6th Cello Suite* by J.S. Bach and a prelude by Villa-Lobos.

In the end, the concert was very worthwhile, demonstrating that Julian Bream is indeed one of the leading guitarists of this day.

Those guitar aficionados who missed the performance may be consoled by Pepe Romero next in the "Art of the Guitar Series," who will be here with the Los Angeles Chamber Orchestra on April 14.

—Lew Proudfoot

The

Critical

Ear



Mama Lion by Mama Lion Family Productions FPS 2702

This album came out a few months ago, but it took me this long to work up the nerve to criticize it. The reason is simple. There is a small but fanatical cult who seem to believe that Mama Lion can do no wrong. This cult includes several thousand horny males and Penthouse magazine, any of whom can be dangerous when antagonized. Penthouse even went so far as to use Mama Lion's lead singer, Lynn Carey, as their December centerfold.

Lynn Carey is a very good singer, trying to be a sort of Grace Slick-Janis Joplin surrogate. Her voice is gutsy and driving, perfect for the music she sings. She writes some songs for the group and provides the voice for a few older songs originally done by others. She does all of these things well.

The problem with this album is quite simple: lack of talent instrumentally. Lynn Carey is the only one of the whole bunch who can carry a tune. She is also a talented songwriter. And anyway, if I may be forgiven a chauvinistic lapse, she has a great looking body. Unfortunately, these assets are not enough to carry a backup group made up of Lother and the Hand People rejects. If your stereo has the ability of tuning out the channel with most of the band, so that you can hear Lynn Carey alone, then buy the album. If not, then wait 'til the group breaks up and

Ms. Carey begins singing on her own.

—Nick Smith

True Stories and Other Dreams by Judy Collins Elektra 75053

For several years, Judy Collins has been releasing about one new album per year. Most of these albums have had a theme of sorts. There was a "father" album, a "war" album, a "loser" album, and others. This time the title tells the theme. Much of this album deals with remembrances of things past, ranging from "Secret Gardens," a personal memory, to Tom Paxton's "The Hostage," a song of outrage about Attica.

This album has been criticized by reviewers because everyone has played "Cook With Honey" into the ground, supposedly

indicating that *that* is the best cut. It is not, by far. Judy vastly improves Stephen Stills' "So Begins the Task." She sings a song about Che' Guevera reminiscent of "Marat / Sade" from one of her earlier albums. "Secret Gardens" is a song of great beauty, telling of an incident from Judy's life. "The Hostage" voices the anger of a dead prison guard, slain in the storming of Attica prison.

If there are weaknesses in this album, they are "the Fisherman Song" and "Holly Ann," both written by Ms. Collins. They just aren't quite as good as the rest, somehow, just not memorable. However, very few albums are made up entirely of perfect songs, and this is not one of them. It is an excellent album, and one I strongly recommend.

—Smithnik

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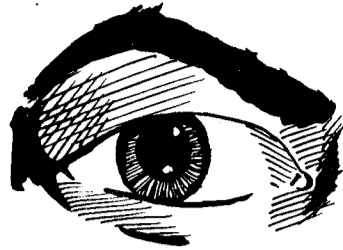
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UNIVERSITY STEREO



the critical eye

by Thumper Moore

Have you been down to the Baxter Art Gallery lately? Ben Sakoguchi will dazzle you to no end with his extensive wall panel intricately detailed with the most imaginative images. Max Finkstein will awe you with his superbly finished sculptural pieces. That he used to be a professional machinist is the only way one can see he would have the patience or desire to produce almost perfect pieces. However, Walter Askin's paintings and lithographs might not impress you to the same degree as the former two artists. Askin's works are spacious, but almost in want of something. I think that "something" is an explanation. (Contradicting what Askin thinks of his own work, i.e., they should speak for themselves without the aid of an interpreter.)

Actually, I don't think Askin's works need an interpreter as much as they need an explanation, which was in the offing last Thursday afternoon. With an hour's worth of slides and philosophical history of his work, an observer obtained an entirely different perspective. First of all, one would notice in retrospect that Askin's works have a definite progression. In fact, for the last 10 or 12 years Askin has been finely developing some characters that are somewhat in an Elizabethian context, Peter Max style. These characters (figures as well as thematic identity — for instance, the "cart") have progressed through some elaborate transitions, from the simplicity of block toys (representing, or in the place of, Rose Parade Floats) to quite sophisticated resin light boxes one of which lights the San Francisco Bay (or in less exaggerated tones can be seen from the Bay and provides a delightful animation.)

These light boxes were the

real hit of the slide presentation, with listeners urging Askin to do a show for Tech of them. Askin modestly and in the true spirit of the artist declined the invitation on the premise that these were not what he was doing in the "now."

We Want Light Boxes

In this reporter's prejudiced opinion, I think that getting those light boxes on campus would really be a boon to Techer imagination (because the art work is something that Techers could handle), but a little imagination put into the electronics of that type of art work could end up in some fantastic piece.

Anyway, Techers, if you want something to entice your imagination, you might try twisting Askin's idealistic arm into bringing some of these toys on campus.

Grant Received From National Science Foundation

The Department of Mathematics has received a grant from the NSF to support summer research in mathematics during 1973. The grant plus other Caltech funds will support up to eight undergraduates with a stipend of \$80 per week for ten to twelve weeks. Details concerning applications may be obtained from the Mathematics Office, 253 Sloan. Applications will be accepted by Professor Dean until April 27. Each application must contain a proposal for research. Applications will be judged by a panel of the Mathematics faculty. Awards will be announced by May 4. Recipients of similar grants last year were Bruce Reznick, Dan Rudolph, David Dummit, Tom Howell, and Richard Shaw.

4 ACADEMY NOMINATIONS
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Travels with my Aunt


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Money

Continued from Page One

assess individually. This includes the steam plant, steam tunnels, central heating and cooling, and the overhead of physical plant.

G&A pays for services which are too difficult to charge individually, mostly the costs of running Business Services. Such items as purchasing, payroll, accounting, and personnel come out of G&A.

Master of ?

The portion of room contract which goes for the Master's Office does not pay the Master's salary, according to Gang. Rather, the money goes to pay the secretary in the Master's Office, and a stipend of \$1000 per year to each Resident Associate.

Costs and procedures for room and board contract will undoubtedly come up for discussion in the next few weeks in the Housing Committee. Food Service is expected to make a strong pitch for eliminating waited dinners in favor of a cafeteria-style arrangement as a cost-cutting measure. Although exact figures on how much the change would save were not available as we went to press, Ken Hall did indicate that the proposed change would save on both material and labor costs. For example, Hall reports that Food Service uses 100 pounds less roast beef on Sunday nights (served in Chandler) as opposed to Wednesday nights.

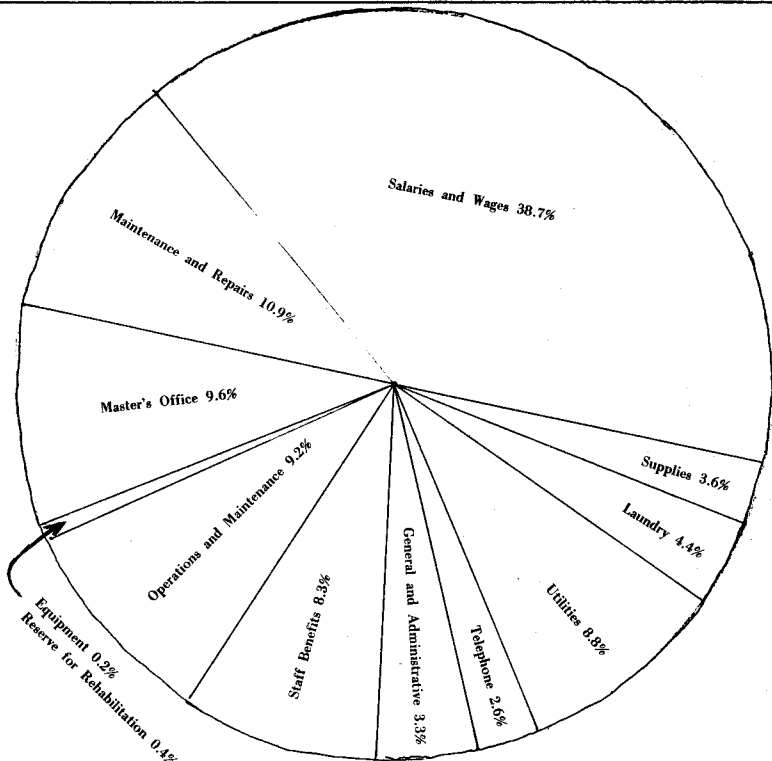
BLOOD!!

Continued from Page Two

from \$25 to \$65 a pint, and blood derivatives (no offense meant, math trolls) are even more expensive. Furthermore, with the yen rising in value, the cost just might go up.

Now, it's fine to donate blood, but the Red Cross does have certain quality controls. First, you must be between the ages of 18 and 65 (inclusive) and weigh more than 110 pounds. Hepatitis isn't too good, either. But there are very few of these restrictions, so give it a try.

The message is still the same—the Red Cross wants your blood, people need your blood.



Caltech Y

Bond To Speak

by Steve Sweeney

The Caltech Y, attempting to make life (or a reasonable facsimile thereof) a little more bearable for the deviations from the average Techer (and even the average Techer, whoever that is), again is presenting a full and varied schedule of events for this term. To wit...

Julian Bond will be at Tech next Thursday and Friday (12 and 13) as part of the Y's Leaders of America Program. He will speak in Ramo Auditorium Thursday evening and hold an informal discussion with interested students in the Y Lounge Friday morning. Bond is a member of the Georgia House of Representatives, despite past attempts by that body to refuse him a seat. He was the first Black ever to be placed in contention to be nominated as Vice-President (at the 1968 Democratic Convention).

Ray Exploration

Dr. Luis Alvarez will speak on "The Cosmic Ray Exploration of Pharaoh's Tomb" at 4 p.m., April 12 in Winnett Lounge. Dr. Alvarez is a Nobel Laureate in physics and a professor at UC Berkeley.

Dr. Kip Thorne and Lee Browne will be featured in separate Noon Discussion Series programs the week of April 15. Dr. Thorne will be the guest Monday April 16, while Browne appears Thursday April 19. The series is held in the Y Lounge, as always, and interested students and faculty are encouraged to bring their lunch.

Olive Walks

Dick Gregory will be on campus April 23 as part of the Y's Life Beyond Science Series for a day of discussions and lectures. He will give an Olive Walk Talk at noon that day and a presentation in the Humanities Lecture Hall at 7:30 p.m. Two opportunities for informal discussion with Gregory exist, one at 10 a.m. in the Y Lounge and one at 4 p.m. in Winnett Lounge.

Gregory, who started as a quite successful comedian in the early sixties, has gradually brought his talents to focus on commenting on the life and problems of America. He has authored five books and currently gives about 300 lectures per year at colleges and universities around the country.

Continued on Page Eight

Beckman/Ramo

Saturday: Mouskouri

by Marc Donner

Now that you've been back at work for more than a week and are slowly remembering what it is to be a Techer, the Beckman/Ramo people have kindly provided a collection of diversions to please the heart and tickle the pocketbook.

Tonight (Thursday, April 5) at 8:00 p.m. in Beckman Robert Hess, Ph.D. will present a talk on *Childhood: The American Experience*. This is a topic of interest to all Techers considering the great number of us who have not yet recovered from the symptoms of this widespread and seemingly inevitable (but not fatal) disease. The originally scheduled speaker was Dr. Robert Coles, M.D. but this worthy is presently in traction in some hospital or another. Perhaps he suffered a relapse of *Childhood*. FREE.

Tomorrow, Friday, April 6, a brilliant and well-known mezzo-soprano will be presenting a program of songs and arias by Gluck, Purcell, Debussy, de Falla and Massenet. Ms. Joy Blackett (the above mentioned mezzo-soprano) will be appearing at 8:00 p.m. in Ramo Auditorium with Linda Hall at the piano.

Ms. Blackett was born in Bermuda and attended Oberlin Conservatory of Music and has studied with Hans Heinz at the jularid School of Music. She is the first winner of the National Opera Award and is widely known for an impressive number of brilliant performances.

This Saturday, the popular Greek singer Nana Mouskouri will be performing in Beckman Auditorium at 8:00 p.m. She is

one of the few people ever to sell out Carnegie Hall for a debut concert and her popularity has suffered no diminution since. Nothing that can be put into words would suffice to describe her and so all you can do is go see her. With Caltech ID tickets are \$2.50.

The final Coleman Chamber Music Concert of the season will be presented this Sunday, April 8, and will feature Ralph Kirkpatrick on the Harpsichord. Kirkpatrick, a professor at Yale University, is a major contributor to the present revival on interest in the harpsichord. His program Sunday will include works of Bach, Couperin, and Scarlatti.

On Monday April 9 at 8:00 p.m. in Beckman Auditorium Luis W. Alvarez, Ph.D. will speak on *Where Were the Pharaohs Buried?*—Probing the Pyramids with Cosmic Rays (Far Out!). Alvarez, professor of Physics at UC Berkeley, has been seeking possible secret burial chambers in the pyramids using the great X-ray machine in the sky to do his probing.

Last, and definitely most, the long-anticipated performance of Horacio Gutierrez will be on Wednesday, April 11 in Beckman Auditorium. One of the prominent pianists of the present day, Gutierrez has won the prestigious Tchaikovsky Competition in 1970. He will be performing a program of Beethoven, Liszt, and Prokofief.

Renumbering

Continued from Page One

nomics for the current Ec 4. This subject will be discussed in the Faculty Board meeting next Monday, April 9.

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MARK JOHNSON

MARK JOHNSON
PRESIDENT, ASSOCIATED STUDENTS OF CALTECH
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DELIGHTED TO HEAR GREAT NEWS WILL HENCEFORTH PASS ALL DIFFICULT PROBLEMS OF CONFLICTING WISHES TO YOU. UNFORTUNATELY RESOURCES AND PEOPLE TO RESOLVE WILL CONTINUE TO BE UNAVAILABLE AS THEY HAVE BEEN TO ME. EXPECT ALL TO BE SOLVED BY TIME OF RETURN WEDNESDAY. GLAD CHILIASTIC MOVEMENTS NOT ALL PAST. GOOD LUCK.

HAROLD BROWN

Dr. Harold Brown
415 South Hill Avenue
Pasadena, Ca. 91106

Germinal 4, 174

Dear Dr. Brown:

Thus far, problems have been massive. To relieve manpower and financial pressures, I have commandeered the bookstore and turned it into a student-run Cooperative. I have also reduced the Registrar's ink costs by abolishing all records of courses failed. The Admissions staff has been reduced to a level commensurate with the ten per cent reduction in freshman class size. Additionally, I have answered the students' food complaints by opening the Athenaeum to all students. This is coupled with the Athenaeum bar annex which has opened in the Millikan Board Room. I have reduced total operating costs by eliminating Building and Grounds (B. & G.) completely.

However, I find that all of these functions require much time, and I eagerly await your return. I suggest that at some future date, we arrange a more mutually satisfying exchange of positions. Specifically, you might consider chairing an ASCIT Board of Directors meeting some afternoon. After you recover from the rigours of your journey, please feel free to contact me if this proposal interests you.

"Allons, enfants de la patrie!"

Respectfully,
Mark Richard Johnson

Classified Ads

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THE ADVENTURES of the TECH TRIO



News Briefs

Continued from Page One
should be submitted to Phil Massey (Ruddock), Gesine Lohr (o/c Dabney), Bob Coleman (Ruddock), or Gavin Claypool (Ricketts).

Another Bridge Tournament??

Due to popular response and demand there will be another bridge tournament on Saturday April 7 in Clubroom One of Winnett at 7:00 p.m.

Pro\$perITEE is Just Around the Corner

This Saturday night, the Elysian Fields Rallye Club is presenting Pro\$perITEE, a skill-gimmick car rallye starting at the south-east corner of Ward's parking lot at Rosemead Square in Rosemead. There will be three classes: Intermediate, Beginner, and First-timer. One trophy will be awarded for every seven cars

that enter. Registration is from 6:30 p.m. to 9:00 p.m. For more information call David Smallberg (BI) at 449-8322.

Hillel Holds Seder Again

Caltech Hillel's Fourth Annual Passover Seder will be held Monday evening, April 16, in the Athenaeum, at 6 p.m. For reservations and further information, call 355-1625, by April 12.

Dennison Rusinow to Speak at Tech

AUFS expert Dennison Rusinow will speak today in 127 Baxter at 4:00 p.m., on "Land-

Man Ratios and Problems in Yugoslavia's Different Road to Development." He will speak tomorrow in the Africana Library at noon on "Yugoslavia and the Geopolitics of Europe."

Auto Products Offered Wholesale

Special arrangements have been made with Capitol Tire Sales Warehouses, Inc., whereby members of the Caltech community may purchase new premium tires, shock absorbers, automotive batteries, auto stereo, and other products at special wholesale warehouse prices. See the enclosed flyer for price list and membership card.

Faculty Board

Continued from Page Three

3) Does a pass grade to an upperclassman represent work of 'D' or above, or is the minimum to be higher than 'D'?

Material from the Faculty Board meetings of five years ago,

when the pass-fail option was established, is also included.

Card-Carrying Courses

The Curriculum Committee also reported its conclusions on the situation in languages instruction. These are:

1) Elimination of the advanced languages courses has been proposed.

2) (The Division) expects to have one instructor for each language available next year and that each instructor can be expected to teach as a maximum three sections of fifteen students each.

3) The Institute would provide instructors for (introductory and intermediate) courses so that all of the students desiring to take them would be accommodated.

The committee noted that 'the German enrollment cannot be accommodated with three sections' and that 'this is a rather major perturbation to the undergraduate curriculum,' and that satisfying the Russian enrollment might be difficult. The committee ends by noting that point 3) above means that 'there is really no difficulty as far as language instruction is concerned next year. It seems clear that for such a small school all we can expect to do is offer instruction in elementary and intermediate languages.' Apparently the Lit. in Translation courses are going to vanish.

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2600 Miles, 3 Records, And A Fashion Show

Greg Griffin apparently didn't have anything to do during March except take a 2600-mile bus trip with the Glee Club and set three school records in the two-mile and three-mile track events.

Griffin opened his assault on the record book on March 10 in an all-comers meet at Mt. San Antonio Junior College. He toured the track in 9:21.6 to break the school two-mile record. The old record was 9:28.4. A week later at Golden West College, Griffin again took aim on the two-mile record and ran 9:19.6 to beat his week-old mark.

The Beaver distance ace then made the annual spring Glee Club tour before returning to action last Saturday in the Claremont Relays. Griffin lowered the school's three-mile record for the third time this spring by running 14:34.9. The time was good for a sixth-place finish and broke his previous record of 14:37.5.

Griffin has been running with more authority in each of his races and promises to set a faster pace as the major meets of the year approach. The results of running more than 100 miles a week are paying off with faster times almost each week.

Fashion Show?

The Haywood Robinson fashion show returned to action last week at Claremont with another outstanding race. Robinson was the victor in the 100-yard dash with a 9.9 mark. On a cold afternoon, the Beaver sprinter won his heat and then the final to pick up the first place trophy. Robinson's finish was the only first place for the Beaver team.

Over the term break, Robinson ran only one race and finished third at Golden West College in 10.0. He has been suffering from a sore back which apparently is improving on the basis of his last week's performance. The Robinson fashion show is being assisted by the new look of manager Bill O'Meara at Caltech track meets this year. Robinson and O'Meara are set-

ting new trends in track fashions.

Al Kleinsasser ran his fastest half-mile of the year over term break. Running at Golden West College, he toured the two-lap event in 1:54.7. Kleinsasser also ran a 4:15.7 mile at Mt. Sac and two 4:19.2 miles, one at UCLA and one in the distance medley relay at the Claremont Relays.

Do They Pay The Models?

The Beaver distance medley relay team finished third in the Relays last Saturday. Greg Hoyt, running his first half-mile in two years, established a personal best by running 1:59.8. Hoyt, who is proving to be the most versatile Caltech runner, ran an excellent race. Charlie Almquist led off the medley with a fine 51.9 quarter-mile, followed by Hoyt's 880. Griffin ran the 1320 in 3:18.7 and Kleinsasser anchored the third place team with a 4:19.2 mile.

The Techers also competed in the 440-relay with a non-placing time of 44.2 and a 3:32.8 in the mile relay. The mile relay was run by Almquist, 52.4; Dave Webster, 55.9; John Steubs, 53.3; and Kleinsasser, 51.2.

Brad Page competed in the high jump and Brent "Rattlesnake" Sweitzer and Doug Herbert in the discus rounded out the team at Claremont.

This Saturday at 1:30 p.m. the team returns to dual-meet competition on the Caltech track against Cal Lutheran. During the next four dual meets the team will be preparing for the League, District and National Championship meets in May.

Here's the answer to last week's crossword puzzle. Were you able to guess where last week's clues were?

S	T	R	A	T	A	M	O	R	O	S	E			
P	A	R	A	P	E	T	O	B	E	R	O	N		
V	A	R	I	C	O	S	E	N	I	M	B	U	S	
E	T	A	P	E	S	L	E	E	T	R	N			
N	I	C	E	D	E	I	T	Y	P	I	C	A		
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E	A	S	T	O	N	R	E	C	E	S	S			

Tennis Team Falls To Redlands; Record Now 1-6

by Bob Kieckhefer

The Caltech tennis team was defeated 9-0 by Redlands last Saturday, bringing its season record to 1-6. The outlook for the future has been brightened, however, by letterman Pat McCrea's recent decision to re-join the team.

In Saturday's meet, Tech was represented by Bruce Eisenhart (first singles), Dave Dummit (second singles), and Mo Nakatsui (third singles). Also competing were Dave Beatty, Ram Rao, and Gregg Zima. Redlands was overpowering, defeating all Techers in straight sets, both in singles and doubles.

Northrup Defeated

The tennis players started their season in good form by defeating Northrup, 9-0, in February. Since then the weather and strong opponents have dominated them, however, and they dropped meets to Occidental, Redlands, Whittier, Claremont, and La Verne before Saturday's second loss to Redlands. Eisenhart and Dummit competed but did not place in the Southern California Intercollegiate Championships, held late in February.

The netmen will try to break their losing streak in a home match this Saturday afternoon against La Verne. Their next match after this will be next Thursday against Cal State Dominguez Hills.

Baseball Streak In Jeopardy—LIFE On Saturday

by Ray Spears

Caltech's baseball team dropped three more games last week, two conference games to Whittier on Saturday (8-0 and 11-0) and one non-league game to Southern California College on Tuesday (15-4). The two Saturday games were merely depressing, the first a three-hitter and the second a one-hitter, while the Tuesday game had its moments, one of the worst of which was a seventh inning plagued by weak defense, during which So. Cal. scored 7 runs on 5 hits, assisted by four errors on our part. Rick Short batted in two of Tech's three earned runs, one on a double in the fifth, and another on a single in the eighth. The So. Cal. team had a penchant for stealing bases, succeeding in seven out of nine attempts. Mitchell surprised the first baseman in the top of the fifth, by stopping a fast ball returned directly to the mound.

Preisler's men have a chance to terminate their 28-game losing streak this Saturday in a double-header at LIFE College. LIFE was the last team to fall to Tech.

Caltech	000	000	0	-	0	3	5
Whittier	003	332	x	-	8	8	0
Caltech	000	000	0	-	0	1	7
Whittier	120	440	x	-	11	12	1
So. Cal.	130	202	70	-	15	10	3
Caltech	100	020	11	-	5	10	11

Nixon Throws Up First Ball

1:00 p.m.	Golf	Thursday, April 5	La Verne	Away
12:01 p.m.	Baseball (doubleheader)	Saturday, April 7	L.I.F.E. College	Away
1:30 p.m.	Varsity Tennis		La Verne	Home
1:30 p.m.	JV Tennis		La Verne	Away
1:30 p.m.	Track		Cal Lutheran	Home
1:00 p.m.	Golf	Monday, April 9	Cal State Dominguez Hills	Home
3:00 p.m.	Baseball	Tuesday, April 10	Redlands	Away

YMCA News

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Leaders of American will re-emerge April 26-27 with the arrival of Judge Shirley Hufstедler of the U.S. Court of Appeals. Judge Hufstедler is considered one of the leading female jurists in America and is a top contender for appointment to the next Supreme Court vacancy. Judge Hufstедler will conduct three discussion sessions over her two-day stay. She will also speak at an Athaeneum luncheon (cost - \$2.10; call the Y for reservations) and will give a presentation in Winnett Lounge the evening of the 26th.

The second Conference on Behavioral Engineering will be held all day May 5 (a Saturday). Participants include behaviorist Dr. Carl Thoresen of Stanford, humanist Dr. Floyd Matson from the University of Hawaii and moderator Dr. John Whitely of U.C. Irvine.

Jack Schmidt; geologist, astronaut, alumnus, and Fairchild Fellow; will be here at 3 p.m. May 11 in Winnett Lounge for an open discussion with students. **and Films for FREE!**

Wednesday evenings in May (except the 30th) will bring the Evening Film discussion Series, sponsored by the Y and the Health Center. Topics to be included in this interesting series are sexual responsiveness, hypnotism, alternatives to marriage, and abortion, VD, and contraceptives.

And for the (ouch!) conclusion this year, the Y and the Health Center will again sponsor the Decompression Chamber in Winnett Lounge from June 1 to June 3.

The GO Club is meeting every Friday at 3 p.m. in the Y Lounge and the Photo Class is meeting every Tuesday at 7:30 p.m. in the same location. Interested students are encouraged to attend. To further wear out a battered cliché, interested students should be able to find at least one activity to go to from this well-stocked list, so do so.

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