# The CALIFORNIA Tech

 $\mathbf{ADD}$ 

ne LXXVII

Number 4

'*Three* 

## Ring-a-ling Ting-a-ling

by Paul Mason

he student Houses are defy not getting Institute lied social phones, but a 'S (Wide Area Telephone ce) phone sponsored by or ASCIT looks promising the IHC meeting last

obert Phelan and O. M. lage, both from Physical t, were at Friday's meeting confirmed earlier reports the Institute would not ly social phones for the ent houses. Also at the ting was Lynn Swanson 1 the Pacific Telephone ipany. He explained what ces Pacific Telephone could nd to the student houses. se included basic residence nes with different options the billing and a WATS

Ir. Swanson explained that a ΓS line lets a user call where in the U.S. outside California at anytime for a d cost per hour. There is a imum number of hours d each month and the cost hour decreases with higher anteed usage.

he plan being considered by IHC is to obtain one WATS ne for all seven student ses, and locate it in a room ssable to the students. The lents would log the calls made and at the end of month the bill would be cen down by student and ed to them through their

The cost of a WATS phone is 30 per hour for a minimum 240 hours and \$4.65 an hour any hours in excess of 240. minimum cost for a month

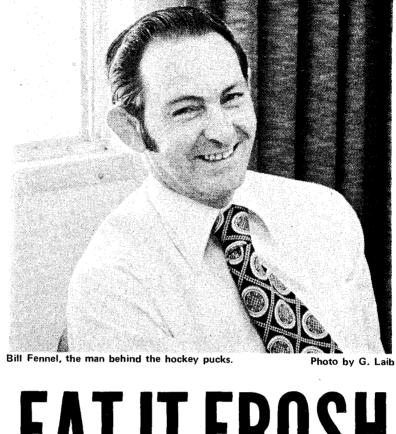
would then be \$1680 for the 240 hours.

The rate for the cheapest outof-state long distance call, direct dialing after 11:00 p.m., varies from \$9.00 to \$12.00 per hour and at the next cheapest time, from 5:00 p.m. to 11:00 p.m., the rates vary from \$12.00 to \$17.00 per hour. Thus the \$7.00 an hour WATS rate is cheaper than any regular out of state long distance call and a considerable savings on some.

In previous years Fleming House has had a private phone for use of house members. According to Phil Naecker, Fleming president, the average cost each month for the out of state calls on this phone has been \$375. Multiplying this figure by seven gives \$2625 as the expected cost of out of state calls for all the student houses. This would seem to justify the \$1680 minimum for the WATS phone.

The major problem with the WATS line at the present is the billing. The telephone company sends a bill containing only the total hours used and not a breakdown of each call made. The IHC is looking into two possible solutions to this problem: The first is using one of the 49 monitors of Physical Plant's Telaid system to record the numbers called and the duration of the calls; the second solution is to buy a "black box," reportedly in the \$100 price range, that can be connected to the telephone line and perform the same function as Telaid.

Another problem with the WATS phone will be congestion. Continued On Page Three



# EAT IT FROSH

by Ed Bielecki

Do you suffer from accute attacks of food service? Do you wish for relief? Well, keep on wishing, for relief is many years away, and the cost would be high. According to William Fennel, manager of Food Service, the ideal situation would be for Tech to go to the cafeteria system. In this way monetary costs could be reduced, but only at the detriment of house unity and personality. In any case, the change would require a dining hall much larger than Chandler and so its earliest possible implimentation would be years in the future.

So meanwhile, here's what you have going for or against you. We now have a dietician who we share with 28 other colleges. During the interview, Fennel talked at length about her findings and recommendations. She said that the food was in all ways "adequate," although a few meals were overly starch laden. As a remedy, more vegetables will sometimes replace potato products. A further suggestion to

occasionally replace cake with fresh fruit, for dinner dessert, was vettoed by the house food reps. The following figures were also produced for the math minded among you. Average daily calorie need of random no-jock troll: about 2600; average calorie intake per day of food service: about 2400. These 2.4 kcals come to you in the form of menus that the food reps reworked from last years menus. The food itself, however, is being prepared from all new recipes in an attempt to produce better tasting, more colorful meals, said Fennel. (Two ways to make hockey pucks? The mind boggles!)

Fennel went on to explain that the increase in board contract was due to increased overhead as well as growing food costs, and that the equipment and repair thereof plays a large part in the problems we are all experiencing, (expecially in the old houses). He also talked of the apparent impossibility of collecting all seven food reps at

Continued On Page Four

REFOOT IN THE? Michael Hogarth's work, "John Doe," is one of many reatching displays currently on exhibit in Baxter Art Gallery

Photo by G. Laib

## News Briefs

Refuse The Right!

"The Management Reserves the Right to Refuse to Serve Anyone." Dr. Michael Levine will discuss the issue of the right to choose one's customers vs. free access to services at next Thursday's (Oct. 23) meeting of the Libertarian Forum Dr. Levine is a Caltech faculty member with a law background. The meeting is open to all. (Wherever it may be.)



Seniors Blasted

There will be a Senior Beer Blast in Dabney Hall Lounge and Gardens from 4:00 to 6:00, sponsored by the Caltech Alumni Association. (It would be extremely helpful if, in the future, persons who submit newsbriefs to the Tech would be a little more explicit as to at least the DAY on which an event is taking place.)

Continued On Page Six

Mountain Grown

## **Coffee Gate**

by Greenie

Like an old warhorse starting at the sound of the bugles, last week's rumors of foul play in the Coffeehouse brought the muckraking journalistic staff of the Tech leaping to attention. Only the facts in the matter kept bloodhounds from being released to bay over the landscape.

It is necessary once and for all to despel the dark whisperings of scandal: although the Coffeehouse finances are troubled, they are above-board and legal.

A Bit of Background

The Caltech Coffeehouse, although owned by the Institute, is a non-profit organization essentially run by the students. Although the Institute pays utilities and B&G handles those repairs within its scope, financing and staffing are ASCIT affairs. What amounts to a Coffeehouse charter is set forth in ASCIT's Coffeehouse Resolution, which assigns to ASCIT the determination of Coffeehouse policy. This provides for four managers working about ten hours per week each for ten weeks each term, receiving \$600 for the year including rent for rooms in the Coffeehouse. This \$600 is guaranteed by ASCIT, to be paid only if there is not sufficient income from Coffeehouse funds to pay this amount. There is also a newly created Contingency Fund to provide for future repairs. This is joint ASCIT-Coffeehouse savings account, into which all profits are placed, and for which ASCIT provides matching funds, up to \$300 per year.

Rumor 1: GSC \$ Scandal

Last week, the rumor had it that the coffeehouse managers (clever little devils) had received a salary from the GSC (Graduate Student Council; the graduate students answer to ASCIT, frosh) without informing ASCIT. Research has revealed the true facts to be as follows: last year, the Coffeehouse desperately needed several major repairs and a new ice cream freezer. (The Contingency Fund

Continued On Page Five

Since we're past our deadline for tonight we are able to bring you all of our late breaking Thursday night news well before you'll ever see it on Walter Cronkite. Yesterday's elections saw the following Techers ride into office-Price, as senior class president; Klein, as senior class secretary; Orel, as junior class president; and three insignificant bozos to head some fishwrap. But this isn't the end for all you die-hard ballot-box stuffers. A tie for senior class veep means (as far as we can determine) yet another runoff.

## Contraceptives, Troll?

Young Health Center, located at 1239 Arden Road, is the scene of many activities and services these days of interest to Techers. Serving primarily grads and undergrads, the center is manned by a staff of concernedpersonnel. Director of Health Services is Dr. Gregory Ketabgian, an internist who is the primary physician on duty during the weekday afternoons (except Monday) and on call at all times. Dr. Marlene Coleman, here last year, now has extended hours, including the Monday afternoon clinic. Also on the medical staff is Dr. Judson James, a general surgeon on call twenty-four hours a day and available by appointment at the health center on Tuesday and Friday afternoons. Dr. James also serves as team physician for the Caltech football team. The health center staff also includes a psychological staff, to be discussed in an article next week.

The health Center is specifically concerned with the physical and mental health of students at Caltech, although anyone will be treated for emergencies. The hours are from 8 a.m. Monday to 12 noon Saturday. One nurse is on duty at all times, and a second is around during the peak afternoon hours. A physician is availble weekday afternoons from 1:30 to 4:30 p.m. and will see walk-in patients early in the afternoon; for later times and for regular treatment an appointment is recommended. Dr. Ketabgian is on call at all times. His answering service number is 795-7793

Various clinics are held by the health center (clinic being de fined as a place and time to have an appointment with a physician). Monday through Friday afternoon is a general clinic, with Dr. Coleman and Dr. Ketabgian on duty Tuesday through Friday. Dr. Coleman also conducts a contraceptives clinic for women Monday from 11:30 to 1:30. Although Dr. Coleman is not a gynecologist, she has had experience in this type of counseling at Tech for the past year. (That means there is someone to turn to, little froshlings.) An immunization clinic (such as is required for foreign travel) is held Wednesdays from 9:00 to 11:00

a.m., and there is an annual flu clinic. Staff member Patty Schneider is holding a weight control and exercise program Wednesdays at noon beginning October 15. On Tuesdays and Fridays, in the afternoon, an allergy desensitization clinic is held. (This is basically administration of medication by a nurse on a regular basis as prescribed by an allergy specialist.)

Many special services are available: lab tests are done without charge. Cardiograms and minor X-rays are done at the health center, others are done by private labs, and major X-rays are done by the radiology department at Huntington Hospitalall this without charge to the student. Often students may be referred to specialists in the community such as orthopedists, dermatologists, and nose and throat specialists. The first of these visits is paid for by a health center fund. The center has a lounge equipped with a health-oriented library open to all students. There is an infirmary with ten beds available for the use of those infectious diseases or who require supervision, although anything serious will be referred to Huntington or St. Luke's Hospital. Moreover, it is the health center policy to let anyone spend the night there who desires it, with no questions asked. An amazing feature of this service is that a nurse will prepare a breakfast for those who get up early enough. The health center also maintains close communication with the RA's of the student houses, educates them in first aid, and provides each house with a first aid kit. Hence a student with a health problem may find it helpful to see his or her RA, especially on the evenings and weekends. Also of interest is a series of lectures on health to be given by the staff.

As far as fees are concerned, the only charges the health center usually makes are for regular prescription drugs, which are provided to students at cost—about one-half to one-quarter retail price. Spouses of students may avail themselves of the health center services for a

fee of \$20 per term. The Blue Cross insurance protecting each student is primarily hospitalization insurance. Questions about either insurance or bills may be directed to Patty Schneider at the health center.

Next week: A discussion of mental health and counseling services available at the health

5 years ago: Oct. 15, 1970

-Caltech began its 1970 football season by tying Redlands JV, 0-0, thus giving the team part of the record for the lowest tie-score game.

This was the first tie for the Beavers since 1958 when they tied Cal Western, 42-42. At that time this was the highest tie score in the history of college football.

#### **New Trustee**

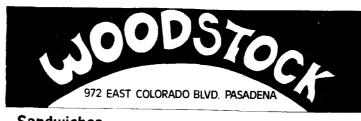
The nation's highest ranking woman judge, U.S. Circuit Judge Shirley Hufstedler of the Ninth Circuit Court of Appeals, has been elected to the Board of Trustees of the California Institute of Technology, according to an announcement this week by R. Stanton Avery, Chairman of the Board.

Only the second woman in U.S. history to attain that level in the judiciary, and highly respected in the legal profession, Judge Hufstedler has served in her present position since 1968. Prior to that she served as a justice of California's Second District Court of Appeals. She was named a Superior Court judge at 35, and seven years later was named to the U.S. Court of Appeals.

Known for her interest in prison conditions and in recent developments in criminal law, as well as education, Judge Hufstedler has affirmed many times her belief that there is

nothing in the daily lives of individuals which is not touched by the law and the processes of justice. Describing herself as independent-minded, she has stated "I've participated in the women's rights renaissance all my life. I've always believed that all human beings, including women, should have the opportunities to make the best of their abilities."

In the field of education, in addition to her interest in Caltech (she appeared here as a guest speaker in the Caltech Y's Leaders of America program) she also serves as a trustee at Occidental College, and for the Aspen Institute for Humanistic Studies. She is a member of the Board of Councilors of the University of Southern California Law Center and the Visiting Committee of the Harvard Law School. The Universities of Gonzaga, New Mexico and Wyoming, and Tufts and Occidental Colleges have awarded her honorary degrees.



#### Sandwiches

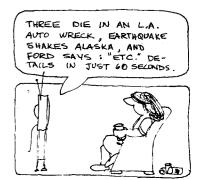
AMBASSADOR combeef and swiss CAL STATE ham, salami and provolone LACC liverwurst and swiss	1.05
USC hot roast beef	1.15
OCCIDENTAL meatballs and green peppers	1.05
PCC roast beef and ham	
CALTECH ham, pastrami and roast beef	
UCLA hot pastrami	1:15
PEPPERDINE pastrami, salami and american cheese	e 1.05
<b>ELAC</b> salami, provolone and Ortega chile	1
MT. SAC hot ham	
UCI ham and american cheese	
CAL POLY any cheese combination	

Salads potato 40 Dessett carrot cake 45
Drinks cola, orange, time .30 milk .30 coffee .20
Beer coors, bud .55 michelob .65

10% discount with this ad

Pechies







#### **NSBELAC**

The National Society of Blac Engineers, Los Angeles Consoi tium (NSBE.LAC), will hold it first annual general meeting thi Saturday, the 18th of October a Baxter Lecture Hall on th campus of the Californi Institute of Technology in Pasa dena.

The Society is an organization for Black college students who have an interest in science an engineering related fields, an urges any interested students that attend. More information can be obtained by calling 295-7408 con 757-7946.

## The CALIFORNIA Tech

Friday, October 17, 1975
Volume LXXVII Number 4
Published weekly except during vacation periods by the Associated Students of the California Institute of Technology, Incorporated. The opinions expressed in all articles are strictly those of the authors and do not necessarily reflect the views of the editors or of the corporation.

Appearing for the Last Time
Morris Jones
Sandy McCorquodale
Ken Yoshida
Editorial Staff

Entertainment ... Pam Crane
Managing ... Ken Kroll
Sports ... Joe Esker

Business Manager ... Becky Winter Circulation ... Wayne Dickenson Staff ... Richard Ackerman, Bruce Baker, Ed Bielecki, Flora Boyer, Al Drehman, Joe Esker, Lewis Hashimoto, Paul Mason, Steve Oualline, Alan Silverstein, Dave Sivertsen, Robert Thornton.

Photographers ... Greg

The California Tech publications offices are located in Winnett Center (105-51), California Institute of Technology, Pasadena CA 91125. Telephone: 795-6811, x2154. Printed by News-Type Service, 1506 Gardena Avenue, Glendale CA. Represented for national advertising purposes by National Educational Advertising Services, Inc. Second Class postage paid at Pasadena, California.

 Subscriptions
 \$1.50 per term

 \$4.00 per year

 Life Subscription
 \$1.50 per term

#### THE ASCIT FRIDAY NIGHT MOVIE

## **Klute**

7:30 p.m. & 9:30 p.m. in Baxter Lecture Hall

Admission: 50¢—ASCIT members and their guests; \$1.00—anyone else

NEXT WEEK:

Clockwork Orange



TODAY at noon the Second ity Review performs on Winnett uad. They do excellent improvitional comedy and social ridiale—and it's the same show ou'd have to pay to see at Fig ewton's right now. So, eat much outside for a change.

MONDAY we present the first f three Evening Jazz Concerts. The Swing Era" features origial 30's and 40's musicians arney Bigard, Nick Fatool, rett Woodman, and Ray Leater-rood. All three concerts—spaced wo weeks apart—will be held in axter Lecture Hall at 7:30 p.m. nd, as always, admission is free. I you love jazz, don't miss these vents.

TUESDAY, "Energy, Environment, and Conscientious Lifetyles" will be the topic of an vening panel discussion in Winett Lounge at 7:30 p.m. Our uests are Dr. Norman Brooks, IT's Environmental Quality Lab irector, and prominent theoloian Dr. John Cobb of the laremont School of Theology. heir talk will center on the eed to join scientific fact and reological ethics in everyday fe.

WEDNESDAY we invite you to come to the Y lounge at noon (Winnett, 2nd floor) to participate in an open discussion with Dr. Gerald M. Edelman. He is a Nobel Laureate, Professor of Chemistry at Rockefeller University, and this year's Buchman Memorial Lecturer in the Ch and ChE Division. Dr. Edelman holds both M.D. and PhD degrees and has done extensive research in molecular and cellular immunol-

10 years ago: Oct. 14, 1965

The Institute decided to purchase six Monroe calculators (electromechanical type, about 20 pounds or so) specifically for the use of the undergraduates. Four of the machines were to be put in the Blacker-Dabney basement, "Private Room No. 1," with the other two being installed in the freshman and sophomore physics labs. Before this, there had been no calculators available to undergrads.

25 years ago: Oct. 19, 1950

The Tech initiated a new feature in the form of a weekly poll of the C.I.T. undergraduates, entitled "The Root Mean Square." One of the first questions asked was:

Three Sundays have elapsed since school has started. On how many of these Sundays have you attended church?

None								84
One								. 2
Two								. 3
Three								11

As of Oct. 19, the Throop
 Club team led Blacker and
 Fleming by half a game in the
 Interhouse Baseball standings.

ogy, protein structure, and physical chemistry. The Nobel Prize was awarded to him three years ago for his work on the chemical structure of antibodies.

Please be sure to come early for these and all other noon discussions. In fairness to the guest and the discussion, we will close the door when the room gets packed.

And as for Thursday and Friday? Get some trolling done.

—Alan Silverstein

## Ding-a-Ling

Continued From Page One

At 240 hours a day usage, each day must average eight hours of phone calls. Even though the calls can be spread over a 24 hour period, most students will tend to want to use the phones in the evening which will lead to long waits for the phone to be free.

Even with a WATS phone the student houses still need phones for local calls and calls within California. Some houses already have residential phones which have been used for long distance calls. More houses will probably get these phones to use for local calls since the social phones have been withdrawn.

The cost of a residential phone with unlimited calls in the Pasadena area is \$5.25 a month. There is also a \$25 fee initially for installation.



Save up to \$3.00!

## Major label LP's! Top artists!

Many, many selections in this special purchase. Classics included!

Hundreds of records! Come early for best selection!

Sale starts today!

CALTECH BOOKSTORE
Get your favorites at Big Discounts!



## Techer After Dark

by Pam

It is very surprising that the Ice House is not crawling with Pasadena-area college students. It is exactly the type of entertainment that students in other places bite, claw and scratch to see. Not only are the shows extremely polished and professional, but the admission is cheap! For \$1.50 it is worth a try.

This week the opening act is Bob Millard, a folk guitarist, but not one into "John Henry" type dirges. He mixes light humor with his music.

Following that: The Mumy-Gordon Band. Their sound is lush with two keyboards and only congas for percussion. It is difficult to find a comparison, but Carole King's back-up band comes close. The vocals border on raucous, but the instrumental expertise makes listening very pleasant.

The stars of the week are Muledeer and Moondogg with their Medicine Show. They are an old Ice House favorite. Last Tuesday's show began with Muledeer as Jerry Lee Lewis on piano, and Moondogg as a 50's guitarist. From the past, the duo moved on to one-liners, longer skits, songs, bad puns, and such. The final skit was a parody on TV sign-off prayers. A hysterically funny show. If you miss them now then attempt to see them when they return (which should be reasonably soon). The performers get a little wasted in the later shows so the 8:30 one may be the best. If any amateur wants to publicly perform, Sunday is "Hootenanny/Showcase" night. You may hit it big! Sign-ups are 7:30.

Coming Events

PIZZA

Fri 17 Muledeer and

Moondogg Medicine Show, Bob Millard, Mumy-Gordon Band at the Ice House until Oct. 19. Reservations MUL-9942. / Klute is the ASCIT movie in Baxter at 7:30 and 9:30. Admission: 50 cents. / New York critics' Best Play of the Year award-winner Home in Ramo at 8:00. Admission: \$2:00. /

Sat 18 Silent Comedies at Cinematech: Buster Keaton in Steamboat Bill, Jr,. Chaplin in The Gold Rush, plus a third Chaplin film. Show at 7:30 in Baxter for \$1:00. / Home in Ramo at 8:00. / Tocattas and Flourishes, a trumpet-organ combination playing works from the Renaissance to today. Performance is 8:00 in Beckman for \$3.00 / Muledeer and Moondog at the Ice House. /

Sun 19 Dabney Lounge Chamber Music Concert at 8:00 PM. Kathleen Kong: piano. Admission: free. / Home in Ramo at 5:00. Admission: \$1.50. / Muledeer and Moondogg at the Ice House. /

Tue 21 Steve Gillette, George Miller, Smokewood at the Ice House untill Oct. 26. Reservations MUL-9942. / Souvenir, a romantic comedy starring Deborah Kerr opens at the Shubert Theatre in Century City, and runs until Nov. 24. Cal 553-9950. /

Wed 22 Steve Gillette, et al at the Ice House. /

Thu 23 Home in Ramo at 8:00. /



New students, have a great new experience, go on up to

## ROMA GARDENS

BEER & WINE ITALIAN CUISINE

SPAGHETTI RAVIOLI

10% Discount On Food To Go

Use new back entrance for picking up orders

1076 E. Colorado 449—1948 OPEN 4—12, Fri. & Sat. until 1

Saturday night at Beckman Auditorium, Douglas Lawrence and Claudine Carlson gave an excellent concert of solos and duets. Accompanying them the piano was Darlene Lawrence. Both performers were very good, but I thought that Mr. Lawrence's baritone was somewhat smoother than Miss Carlson's mezzo soprano.

The concert opened with the duet 'O soava conforto' (O sweet comfort) by Scarlatti. I was not particularly impressed, which led me to expect a rather dull evening.

I was wrong. Mr. Lawrence's performance of five more of Scarlatti's pieces was superb. The first, 'Chi vuole inamorarsi' (Whoever wants to fall in love) impressed me immensely. 'Cara a dolce' (Sweet freedom), 'Bellezza, che s'ama' (Beauty, love of all), and 'O dolcissima speranza' (O sweet expectancy) followed. All were songs of love. Not love songs, but songs of love's effect on man. 'Toglietemi

7:30 and 9:30, ASCIT is screen-

ing Klute, a contemporary pop-

eliciting the sympathy of the

audience through pathos and

overt sentiment, and ultimately

winning the love of the ubiqui-

tous heroine. This formula had

enormous appeal to U.S. society

of the Twenties and early

Thirties. Urban American males

were sexually and socially inhib-

ited in the pervasive atmosphere

of intolerance and class conflict.

The Little Tramp fantasy is an

expression of the male romantic

gical order:

la vita ancor' (Deprive me even of my life) provided a powerful finale to these five songs.

Miss Carlson then performed four of Hugo Wolf's songs, 'Zur ruh, zur ruh' (To rest, to rest), 'Gebet' (Prayer), 'Das verlassene Magdlein' (The forsaken maiden). and 'Er ist's' (He is). I enjoyed all four pieces, as did the rest of the audience.

Three duets ended the first half of the performance. I enjoyed Robert Schumann's 'Tanzleid' (Dance) and 'Wiegenlied' (Lullaby), but the third piece, Brahm's 'Der Jager und sein Liebchen' (The hunter and his sweetheart), was by far the most entertaining song of the night. The song is really a lover's quarrel. The hunter wants to spend the evening hunting, while his sweetheart wants only to dance the whole evening.

After the intermission, Mr. Lawrence sang songs of death by Modeste Mussorgsky. The first, 'Trepak', did not impress me narticularly, but the other three

similarly useful escape for frus-

were quite good. 'Lullaby' was an emotional plea for a young child's life, while 'Serenade' was another powerful song which moved the audience. The best was the last, however. 'Commander-in-Chief' was a truly impressive song of war and death. The audience loved it.

Miss Carlson concluded the scheduled program with five "Natural Histories" by Maurice Ravel: 'Le Paon' (The Peacock), 'Le Grillon' (The Cricket), 'Le Cygne' (The Swan), Martin-Pecheur'(The Kingfisher), and 'Le Pintade' (The Guinea-Hen). All were lighthearted songs, and were quite entertaining.

At the conclusion of the scheduled program, an encore was given in response to an audience which refused to stop applauding. It was a pleasant French tune which I believe was entitled 'Tea is on my love'.(?)

It seems a shame that I was the only Techer (excluding the ushers) who came to the performance. I overheard one member of the audience comment "...and I was expecting the place to be crowded with students." I told the person that everyone was at a seminar on the D&D phenomenon.

−Al Drehman

Moving through this setting is an uneven plot involving the syndicate, pimps, junkies, and a moral out-of-town cop (Donald Sutherland). The film is ambivalent in its presentation of the darker New York of prostitution and other fun vices, but perhaps more honest in expression and more realistic in perspectives than what has gone before in films. Fonda, a foxy lady of no mean talent, is well-suited to the role of the Park Avenue call girl, and provides a pleasant contrast to her previous sex kitten gravy parts, as in last week's ASCIT flick, Cat Ballou.

-Lewis Hashimoto

Continued From Page One

one time. Some leaning on food reps might, therefore, be in order since they are the primary means of communicating your needs and desires to the food service. Fennel said, however, that both he and his new assistant manager, Rich Whitney, are always open to comments from individuals, and can often be found wandering the kitchens during lunch. So now, all of you who have such great ideas at lunch and dinner can stop telling them to walls and can go tell them to someone who is in a position to act on them.

Flamenco Flick

by Greenie

Imagine a sultry evening in a scented Andalusian courtyard, or a heat-oppressed afternoon in a dusty Madrid courtyard . . .

Luisa Triana and her Spanish Dance Company evoked them for an appreciative audience last Friday at the Pasadena Civic Auditorium. Flamenco, the traditional dance of the spirited Andalusian gypsies, has been the inspiration for generations of Spanish composers and dancers. And for good reason; the long fluted skirts, the intricate stamps, the staccato of the castanets... these have a power over the imagination unlike any other dance form. Together with the unequaled Flamenco guitarists, they form un unparalleled expression of fiery independence.

Last Friday's performances ranged the syncopated guitarand-castanets to Oriental, a haunting piano, cello and guitar piece accompanying an unusually fluid exposition of Flamenco

The entire company is remarkable for its sensitive interpretation of the music, as well as an amazing agility and communication with the audience. Each motion, from the impossibly quick stamping and kicking of the feet to the rattlesnake clicking of the castanets glows with exaltation in the richness of a noble cultural tradition with which Americans have had too little contact, certainly to our detriment. It is a revealing experience to witness the pride with which the Spanish art is brought alive for the audience.

Luisa Triana herself is a performer par excellence. Her control as well as her imagination are worthy of appreciative comment. She certainly deserves much notice in the dance world, both as a dancer and as a choreographer.

Of the other soloists, the best by far is Roberto Amaral, whose sinuous ease and handsome face came close to stealing the show. This talented young gallant has two duets with Luisa, clearly the best numbers in the show Tangos, and brisk and intricate ankle-dance demonstrated the most difficult steps of this type of dancing; in Sonatina, a virtually stationary finger-dialog, the truly astonishing versatility of the castanet in the fingers of an artist is apparent.

The performance is worthwhile for the music alone. Flamenco guitar buffs would be

satisfied both with the skill an range of the two guitarists, wit the added pleasure of the cantaor, a singer whose sty clearly delineates the influence the Arabic culture on Spanis art. The piano-cello numbers ad an unusual element to the performance.

Gino D'Auri's solo Guita Variations is a priceless tell minute interlude. D'Auri's con petent fingers spray pleasir brightly colored phrases over a astonishingly versatile back ground of subdued strummin One can only be disappointed with the lack of an encore.

The costumes are a colorf accent, whose selection ar design show a truly inspire hand. The traditional flared ar many-layered skirts and hig waisted pants with bolero jacke are represented in a tasteful ar imaginative range, as well costumes for both the men ar women reminiscent of the Sou American pampas.

Luisa Triana's Spanish Dan Company earns the heartiest applause, and a hope that the will soon return to the LA are

In the meantime, for tho interested in seeing Flamenc the Morra Dance Company w be coming to Beckman Auditor um on Friday, Nov. 21.



ENTERTAINMENT SPECIAL



SPECIAL GUEST STAR





FRI.-OCT. 24-8 PM AT THE STARLIGHT BOWL BURBANK

FROM LOS ANGELES: GOLDEN STATE FREEWAY NORTH TO OLIVE, EAST ON OLIVE SUNSET CANYON, TURN LEFT & FOLLOW SIGNS TO STARLIGHT BOWL.

FROM THE VALLEY: VENTURA FREEWAY EAST TO BUENA VISTA TURN LEFT (CATALINA ST.) PROCEED TO OLIVE & TURN RIGHT FOLLOW OLIVE TO SUNSET CANYON, TURN LEFT & FOLLOW SIGNS TO STARLIGHT BOWL.

Advance Tickets \$6.50 NOW ON SALE at Ticketron Liberty and Mutual Agencies Also at Starlight Box Office (213) 848-6300 100 Pass Avenue, Burbank

FOR INFORMATION CALL: (213) 848-6300

SILVER SCREENING Meaty wads of fine films will illusion of virility and Horatio be shown in Baxter Lecture Hall Alger-like success potential existover this weekend: tonight at ing in all men. This may prove a

trated trolls.

ular film; Saturday night, starting Steamboat Bill, Jr. (1927) is at 7:30, Cinematech is showing one of Buster Keaton's few three golden-age silent comedies: feature-length silent comedies. It Steamboat Bill, Jr.; The Gold exemplifies the great detail and Rush; and City Lights. For timing of Keaton's deadpan Techers these are recommended brand of comedy, based on as a cheap (50 cents for ASCIT scrupulous attention to fluid movie, \$1.00 for three Cinemaediting, movement and spectacle. tech flicks) means of entertain-The implacable humor of the ment on campus. in chronolostonefaced comic is quite different from that of Chaplin; The Gold Rush (1924) and Keaton's appeal derives from City Lights (1931) are two purely physical comedy and the craftsmanship with which the representative works of Charles Chaplin's comedic form. Chaplin, gags are constructed ane executof course, is the total actor, ed. Some excellent pioneering special effects went into the screenwriter, and director; the filming of Steamboat Bill, with intensity of his creative powers is expensive exterior location work focused upon expressiveness of acting and painstaking perfection done on the Sacramento River. Keaton is a natural stuntman and of visual gags. The Chaplin formula for success in his early plays for maximum effect the (i.e., successful) films was built stoic mechanistic gags which are his trademark. Both Steamboat around the motif of the "Little Tramp" character. In both these Bill and City Lights will be films, this underprivileged, wimaccompanied by a real live py, proletarian misfit battles pianist, Mark Hochberg, in the tradition of the early silent film through the situational conflicts of a dominating, stifling society,

> Klute (1971), directed by Alan J. Pakula, is a suspense thriller romance which attempts to present a sociological slice-oflife while telling a story. The protagonist (Jane Fonda) represents the metropolitan bachelor girl of the Seventies (in this case, incidentally, a hooker); idiomatic New York-ese of the screenplay (by Andy and Dave Lewis) is the vernacular of the film, and sets the tone of the urban life-style.





for

110—220 VOLT

Major Brands Audio HiFi Components Free Shipping/Packing Estimates Household Small/Major Appliances

8813 Wilshire Blvd. Beverly Hills 90211 655<u>-9390</u> 652 - 7370

ontinued From Page One not exist at the time) ng for ASCIT, Ryn Miaki t to the GSC and suggested since grad students used Coffeehouse as well as ergrads, the GSC should ide something towards the rgency. According to Jon rman, then GSC Treasurer, 'as determined that the use ) was one grad to four ergrads; since ASCIT was nging an \$800 loan (see w). GSC made a grant of 0 to buy the freezer. ording to Karen Greif, head GSC, this was a one-time t, and will not be repeated ept in the event of another rgency. The confusion as to supposed secrecy of the it was caused by the fact ASCIT has no minutes of meeting during which the e was discussed, and the new ) knew nothing about it. n Sun, ASCIT Treasurer, tends that the managers ald have notified the new ). The managers argue that s not their fault if ASCIT sn't keep records of its ceedings. (By-Laws on the feehouse state that the man-'s should report expenditures income in a manner apved by the ASCIT Treas-:.) The issue is unresolved at

moment; however, to avoid

a difficulties in the future, a

posal for a Policy Book is

ore ASCIT now. Chen Sun

its the policy book to

tain: (1) Every major Cof-

nouse transaction, especially

r equipment purchases. (2)

cords of price increases and

master's records. (3) Eco-

nic analysis of the current

ffeehouse state of affairs and

probably future course of

prices and profits.

Rumor 2: The Loan Scandal

The rumors concerning the ASCIT loan to the Coffeehouse are very diverse and have only one element in common: a belief that something is fishy, and it's not a new kind of burger. The true facts are as follows: According to Chen Sun, Lyman Bonner arranged an \$800 loan for ASCIT to help out the Coffeehouse with its repairs. The payment plan was originally for ASCIT to pay the money back over six years (It's actually due December 31 this vear). However, in this year's budget meeting it was decided to pay it all back this year. According to George Henderson and John Kaye, two of the managers, the Coffeehouse had originally been supposed to pay ASCIT \$100/term; this was changed in order to help ASCIT out of current financial difficulties, and \$400 will be paid out of the Contingency Fund at once (a move labled by Jim Backus, ASCIT President, as soaking the Coffeehouse to support ASCIT). ASCIT owes the Contingency Fund \$300 in matching funds; this is to be subtracted from the Coffeehouse's indebtedness. The remaining money will be paid at some future time, not yet decided upon.

#### Rumor 3: Mismanagement and the Attempted ASCIT Salary Rip-Off

It is being said that Chen Sun had withheld the manager's salary third term because of mismanagement or because they had claimed salaries from ASCIT in excess of what they were legally allowed. It is true that the salaries were withheld, but only because Chen Sun

claimed that the Coffeehouse funds were sufficient to provide the salaries without ASCIT subsidy. Upon further examination, the managers decided that this was correct and the claim was withdrawn.

There is disagreement as to whether the salaries are commensurate with the time required: Due to difficulty in determining total number of hours and the real value of the rent Chen Sun estimates the hourly wage as anywhere between \$2.10 and \$3.75. Jim Backus does not believe that the concept of hourly wage is applicable.

Chen Sun does believe that there is mismanagement, but that it is inherent in the nature of the job and the 40 hour/ week time allowed for the managers; he does not believe that it can be resolved by hiring a new set of managers. He faults them for not having examined all consequences of the emergency price increases last year, and for not making constant economic analyses of the Coffeehouse situation. For example, they did not make an estimate of the increased amount of money brought in by the price increases-if the Coffeehouse did make grossly large profits it could cause ASCIT to lose its tax-exempt status.

#### Rumor Rent

Some turkeys cackle about the Coffeehouse being rented out in the summer; it is true that guests of the managers are allowed to stay there, but it must be remembered that their salary includes year-round rent in the building. The guests are sometimes requested to do odd jobs or minor repairs, but no rent has been charged. The only

objection to this practice was voiced by Jim Backus, who doesn't like the idea of rent in the form of work. To charge rent to any non-managers would endanger ASCIT's tax-exempt status. In the form of hours of which no record is kept, the IRS would remain blissfully ignorant. No one objects to this, but Jim Backus would prefer straight rent, if it were permissible.

#### Rumor Bored

In the course of the brilliant investigative reporting necessary for the writing of this article, another blow has been struck for freedom of the press. Gary Wakai, President of Page House, seemed to take it as a personal offense that the Tech would undertake to muckrake that institution so dear to his house. Upon discovering that the author of the original Social Phones article was going to investigate Coffeegate, he offered to strangle this reporter. Fortunately, I escaped from his jocky grip and quickly began to scribble notes on the incident. Seeing this, Wakai advanced threateningly and demanded to be shown the Coffeehouse copy before it was submitted. Swiftly, I dodged behind a conveniently close roommate, quipping, "He who fights and runs away lives to describe the incident in print next Friday." A blow for freedom of the press and the American Dream struck against the Establishment.

As the Coffeehouse scandal slips swiftly into obscurity, leaving this yellow journal with only minor bombshells for next week, a fitting close is: "THE DEDUCTION IS OVER, THE CRAP HAS BEGUN!"

Coffeehouse flick, anyone?

## Day at the Races

The public is invited to a Caltech Service League "Day at the Races" benefit at Santa Anita Race Track on Friday, October 24, with proceeds going to assist students of Caltech. (Charity begins at home).

Tickets to the benefit are \$6.25 per person, which include entrance to the track and special area table seating on the Club House Terrace. Luncheon may also be purchased at the tables.

The Santa Anita gates open at 11:30 a.m., and post time for the scheduled nine races is at 1:30 p.m. Seating will be on a first-come, first-served basis.

Among the many ways in which the Service League has supported the Caltech student body during the past 27 years of service are the sponsorship of the annual Freshman Parents' Day, a bi-monthly "well-baby" clinic for undergraduate and graduate students' and research fellows' children under the age of two: special needs such as contributing items for the comfort of student patients at the Student Health Center, providing holiday food for students who remain on campus through the holiday, and co-sponsoring "decompression evenings" of home-cooked food and conversation for students during Caltech examination weeks with other Caltech organizations.

Anyone desiring information or wishing to make reservations for the benefit may do so by calling Mrs. Ralph Bicker, 355-1773, or Mrs. William Nash,

## CALTECH STUDENT SPECIAL



STUDENT DISCOUNT w/ this AD 6%

FOR MORE INFORMATION COME TO

## International Water Beds

Pasadena 953 E. Colorado 796-6171







**FINANCING** AVAILABLE

## the Gnus that $\Xi$

by Dick O'Malley

Lion Country Safari, located just off the Moulton Parkway exit of the San Diego Freeway, has for several years provided an opportunity to see veldt animals in something approaching their natural habitat. Very recently, the place has incorporated a theme park (like Disneyland and Magic Mountain) in order to attract more visitors and suck in more money.

Fortunately, the directors of the Safari have not yet lost sight of the original purpose of the project. Indeed, they have recently acquired several gnus.

Unfortunately, these gnus have posed a perplexing problem for the men in charge. It seems that the gnus were placed in an unfinished cage pending the establishment of a separate section in the Safari itself. The directors were puzzled to dis-

cover that in the morning all the tiles in the cage had been arranged and fastened to the floor, in spite of the fact that the gnus didn't have any tar.

The gnus were split up into three groups of two, and placed in other unfinished cages, again without any tar. By the following morning, all three floors had been laid.

Safari officials then contacted both the San Diego and Los Angeles Zoos and inquired about their gnus. (It was at this point that the press got wind of the situation.) Extensive testing disclosed that, when in captivity, gnus can indeed lay tile without benefit of tar.

A spokesman for the Lion Country Safari, when asked if his gnu was particularly special, commented: "No not at all. It's just a typical gnu, and tiler too."

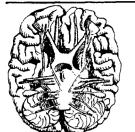
#### *BAMBOO VILLAGE* CHINESE RESTAURANT

1772 E. Colorado Blvd, near Allen Pasadena, Ca. 91106 Tel. (213) 449-9334

SPECIAL FOR STUDENTS FREE DINNER on birthday w/ 3 or more

other people Good all year 10% off on a la carte Expires Dec. 31, 1975

OPEN FROM 11:00 AM to 10:00 PM Sunday 5-10 PM Parking in the rear. I.D. Required Closed Mondays



## from the cerebrum

### Science and Man

by Richard O. Ackermann

At the recent Pacific Science Congress, word was raised that scientists should abstain from further arms research, or at least "insist on open publication of their results."

Thus was brought before the public a sensitive subject that may well trouble the minds of many scientists for a long time-at least as long as the concept of war as a means of carrying out ideological differences prevails.

Naturally, an approach to the problem is by no means as obvious as might seem to some person applying 'good old common sense'. As is to be expected in our societies that are not yet (and maybe will never be) capable of thinking beyond locally commonplace ideologies, this common sense makes way for rather irrational elements. To be as objective as possible then, points of view from all possible sides must be taken into consideration, and things start to grow overwhelmingly difficult.

Nevertheless, some statements can and should be made, unless Science wants to lose its credits.

First of all, an attempt must be made to consider the possible goals of Science. These should then be tested rigorously with respect to their validity and above all, to their effect on mankind and his habitat. Finally, as a result of circumstances. priorities must be set.

Goals and Frontiers

In a somewhat simple manner, Max Planck once stated that the purpose of scientific work was to bring a certain order and regularity into the rich amount of perceptions we receive of the nature surrounding us. In addition, exact science, for itself, satisfies the human strive for knowledge and, above all, interacts with society and generates ever new modes of existence.

In the history of natural science, essentially two ways have evolved that try to predict and explain natural phenomena. One way, initiated by Plato, calls for the application of simple, well-defined and unchangeable, thus above all mathematical principles. Francis Bacon, on the other hand, recommended what formed the stepping stone to modern science: By means of observations and experiments we should be able to draw valid conclusions about natural events.

Bacon's method inspired some of the greatest geniuses of history to unravel more and more of nature's secrets. In the last couple of decades, scientific discoveries have lead to a new technology that has augmented man's capabilities to the point where the whole process of successful human performance can be imitated by machines. In fact, the new technique not only relieves man from his operations, but also from his controlling function. For the first time, man can objectivate himself from his work and his immediate surroundings, and face a new reality.

Due to the rapid expansion of technology, the human battle with nature has been reduced to such a degree that essentially, man is about to confront but himself.

This fact holds true in two respects: (i) In the pursuit of the ultimate goal of pure science we have reached a point where our habitual differentiation into what Descartes called the res extensa (Matter) and the res cogitans (Mind) has lost its meaning. The building stones of nature that were considered until fairly recently as the last objective reality, can not be defined uniquely in Space and Time and henceforth, we are really only "making our knowledge of these particles the subject of our scientific discussion." (Werner Heisenberg: Das Naturbild der heutigen Physik 1955)

As Heisenberg points out, the goal then isn't any more the understanding of the atoms and their motions 'per se'; rather, we are from the outset in the center of the formulation of the question between nature and human being, of which natural science is only a part.

The goal of science, as formulated by Planck, thus reaches a frontier that restricts the rational ordering and explanation of nature: The very method of observing natural events changes the objects one is looking at, so that ultimately, the method can not be treated separately to the object. In other words, the observer is watching himself to a certain degree.

(ii) Besides this microcosmic aspect, there exists the larger problem of man versus man

within the realm of society: the possibility of an objectivation from his 'tools' puts an additional burden of responsibility on man as the 'master' of his artifacts. However, since it is not the 'master' who does the work, the evidence of responsibility becomes more concealed. Consequently, the destruction of man and nature by means of these impersonal 'tools' seems unavoidable to many elements of the industrial and social hierarchy, as no single person is directly responsible. Ultimately, man again faces himself, or at least his 'tools'.

#### Examination

With this, we reach our initial problem: the tendency of modern warfare is increasingly towards weapons with which maximum efficiency can be achieved with least effort. Man is virtually alienated from his weapon, nowadays, he need not even guide it to its target anymore. Also, he does not see the horrors it causes, so his emotions are hardly touched.

A much more widespread occurrence of man's alienation from his 'tools' is evident in the example of computers taking over administrative work. In the resulting bureaucracy that relies heavily on technical gear, man can become a totally helpless element, prey to his own artifact (which, conversely, represents himself, of course).

Drawing form these simple examples, we feel inclined to try to define a sort of borderline between what might be termed 'permissible' and 'not permissible' application of science. Unfortunately, this leads to the absurd attempt to determine good and evil. As there exists no absolute system of moral values, man is free to set his own limits, for which he carries the entire responsibility.

To find a way out, let us t make a very simple assumpt which we must leave unprov If we would not like to subjected to some specific sit tion (on a large scale), some else probably neither would w to make that particular exp ience.

With this in mind, we r imply that we would hardly the very instruments aimed at that we are constructing in or to destroy others. Destruct may serve as an antithesis in dialectics of our world; howe the probability that it will w out something that might be v to the further development mankind is increasingly grea

Then why not concentrate efforts on those problems t have to be solved-why not the priorities in such a way t society can keep track with work of its intellectual exnents? (But of course, between that ideal and us is that annoy thing called 'reality'...)

Human Thinking Only Way O The separation of man from his tools has driven us out 'paradise'-it has brought us fre simple animism to a situati that we must call dialectica superior, even if this may sou contradictory to reality. But we define civilisation as 1 capability to reflect about o selves and the world surroundi us, then surely we have taken t first little stip on the w towards an understanding of a integration into our spiritual a physical Universe.

We barely understand t 'how'; -human thinking, a science specifically, will have very long way to go to find answer to the 'why'. But i worth the effort, for that ultimately the only persisti reality!

a-Diamonds". Regrettabl Jackson Browne did "Jamai Say You Will" much better the Cocker seems able to do. Sev of the songs, few of the notable, were written by I back-up musicians, but it mostly the Randy Newman son that are worth listening to.

This album is getting almo no airplay on the stations I' listened to, and I'm not sure would recommend it to ju anyone. If you remember likit Joe Cocker before he lost h voice the first few times, or you walk around humming "Mi night Rider", you just might lik this one. It could have bee better, but, these days, who couldn't?

-Nick Smit

## **NEWS BRIEFS**

**Phasers** On Kill!

The Caltech Gamers have been challenged to a game of Alien Space by the UCLA Galaxy Club. Since the Greater Galactic Championship is at stake and since they outnumber us, we expect a tough battle. An organizational meeting and a practice game of Alien Space will be held at 7:30 p.m. on Sat., Oct. 18 in Dabney Hall Lounge. The challenge is tentatively set for Saturday afternoon, Oct. 25.

And don't forget the D&D and other games in Clubroom 1, Winnett, every Friday evening at 7:30 p.m.

• \* \*

The mime class last year, after it got started, was fantastic. You may be dying to try mime. If you are, I'm starting another mime class. If you're interested, please call Moses Ma at 792-0086 evenings. Thank you.

Go See Mickey

For anyone still interested in going to Disneyland tonight, tickets are available through JPL's Employee Recreation Center. Call 57-6120, and you can make arrangements to pick up the tickets at JPL. Remember. tickets are \$5.25 each.

A Social Contract

"Since no man has a natural authority over his fellow, and force creates no right, we must conclude that conventions form the basis of all legitimate authority among men."-Jean Jacques Rousseau, The Social Contract. Come to bridge club at 7:00 Saturday in Winnett

## The Critical Ear

Jamaica Say You Will by Joe Cocker: A&M Records.

This is Cocker's latest in a long string of albums, and I'm still not sure about it. I don't usually think I like Joe Cocker, but sometimes I think of a song that he and someone else have both done, and invariably it is his version I remember best. "Midnight Rider" is the prime example of this.

This time the songs are love songs, at least of sorts. The album starts out with a song called "(That's What I Like) In My Woman". It is just a typical Cocker rocker, no spectacular lyrics or anything. Listening to it I sort of sagged a bit and wondered whether the album would have anything good on it. Next came "Where Am I Now".

a Jesse Ed Davis song, featuring Nicky Hopkins on piano. A little better, and a song with a little poetry to it, at least. Then it started happening.

Several years ago I first heard a Randy Newman song called "I Think It's Going to Rain Today' and liked it. Cocker sings it like he feels it, and it's a sad feeling. "Tin can at my feet, think I'll kick it down the street; that's the way to treat a friend." "Right before me, the signs implore me, help the needy and show them the way. Human kindness is overflowing, and I think it's going to rain today."

There are several other moments of note on the album, especially "Lucinda" and "Jack-



## MAKE YOUR SPARE TIME PAY

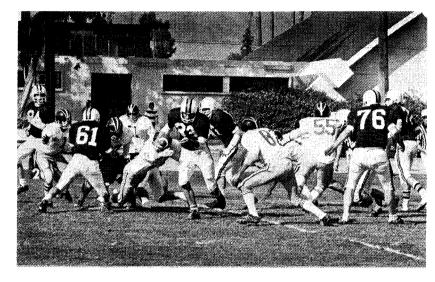
Sell my line of fashionable european sunglasses to your friends

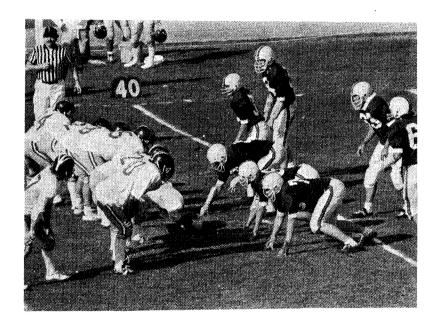
NO INVESTMENT NECESSARY

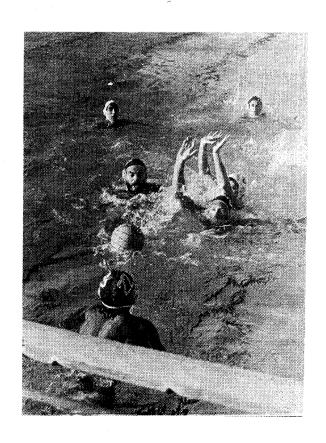
For full information please write to:

GEHAMIG.P.O. Box 946, Brooklyn N.Y. 11202 Sports at Caltech

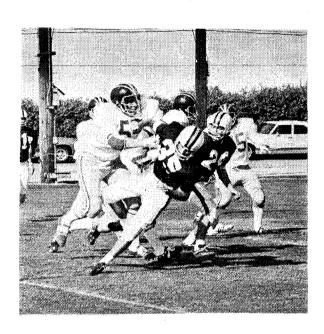
# FOOTBALL-WATER POLO 1975



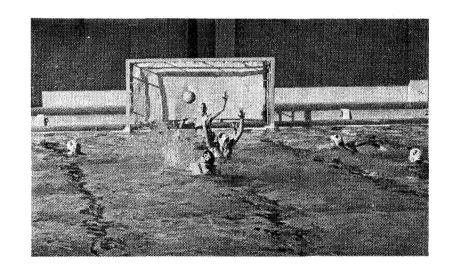


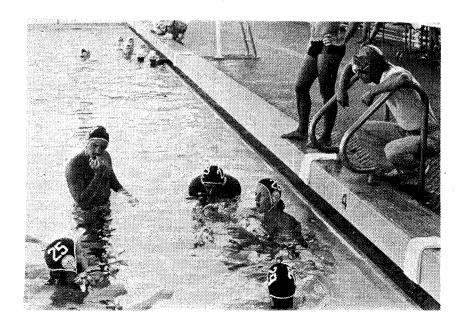






Photos by G. Bone, G. Laib, K. Li, B. Lockett, and D. Weinshenker





GALIFORNIA TECH SPORTS!

Page Eight

LLOYD

Byrne

Cox

Groat

Tutt

Bus

Baxter

D.C.Plates

**BLACKER** 

TOTAL

Boroson

Davis

Kistle

Larson

Sibley

Tanaka

Chang

Reves

Rairden

Nakazono

Rodrigo

TOTAL

0

9

32

0

19

Hamasaki

McCool

Bachovchin

Friday, October 17, 1975

## SPORTS! Beavers Blasted

by J.R.G.

After electing Co-Beavers the first week, last week saw the soccer team without anyone worthy of the award. On Wednesday they lost 4-2 to a weak Whittier team they could have defeated. Rich Atwater, tearing himself away from his demanding IHC duties, scored one goal, while Jim Hickey scored on a throw-in through the porous Whittier defense. One bright spot was the addition of Leslie Peterson at right wing, giving the forward line something which has been lacking. Goalie Steve Trimberger found an ex-

RUDDOCK

cuse by cracking his sternum in the second half, and is out for at least two weeks. As a result, when the Beavers paddled through the rain and mud to Pomona Saturday, Lee Aydelotte found himself ankle deep in a swamp, allegedly defending the goal. The result was predictable as the league-leading Pomona team squished to a 7–0 victory. The less said on that game, the better.

Tech goes against LaVerne here at 10:00 Saturday, so come root your Beavers on. Who knows, they might actually win.

**BLACKER** 

Pinar Del Rio-"Education is the future of the now generations. Education is the future of ou country," said Commander-in Chief Fidel Castro, first sectetar of the Central Committee of the party and prime minister of the Revolutionary Government, if the ceremony held at the Tanila Guerrillera School for the training of elementary school teached to inaugurate 107 school throughout the country and officially open the 1975-76 school year.

## Page Pounded

It was indeed a dark day for Page softballers yesterday as the bowed to Blacker, 12–7. (Couthe mighty Moles of two year ago have returned!) This preleming (who, incidentally, wrough away Dabney 15–4 of the opposite field) into a tieff first place with Ricketts. The two teams will square off again each other today, so get out the diamonds at 4:30 and yo should see a good game.

## **Harriers Split**

by O.D. Sivertsen

Caltech's cross-country teamet up with two of its for down in the Lower Arroyo la Saturday. Tech's harriers manged to defile Whittier on the climbing, rocky, five mile cours but was bested by national trace powerhouse Occidental. Scora as a double dual, Tech be Whittier 18–39 and lost to Oct 43–15.

Top runner for Caltech w Steve Kellogg in sixth place wi his best time ever of 29:4 Close behind were teammates J Arpaia and frosh standout Ro Bourret, nailing down seven and eighth. Freshman Vic Ma zella also turned in a fi performance for the varsity tenth place.

#### Classified Ads

USC Masters candidate will teapiano. Campus vicinity, c 796-1381.

\*RENT A TV OR STERE \*Special Student Rates, no der sit, hours: 11 AM to 8 PM. 2 Colorado, corner of Fair Oa 449–4311 King Kay TV

CALCULATORS, HP21-\$1 HP22-\$155, HP25-\$18 SR50A-\$91, SR51A-\$140. DAY DELIVERY. SEND PRI + 6% TAX (PREF. MONEYC DER) TO CHEAP CALCUL/ TOR CO. 636 4th ST. DAV CA 95616. QUESTIONS CA (800) 952-5252.

EUROPE-ISRAEL-AFRIC Student flights year round COI TACT: ISCA, 11687 San Vicer Blvd. no.4, L.A. Calif. 900 (213) 826-5669, 826-0955

Asia, Africa, Israel. Round Trand One Way. Since 1959: IST 323 N. Beverly Dr., Beverly Hill Ca. 90210. Phor (213)275-8180 or 275-856

Buying or selling somethin

You, too, can take out an ad The California Tech! \$1.50 | inch plus \$.25 per extra line Classifieds. Bring ad copy to Tech office or phone ext. 21!

## SOFT BALLS

In the opening games of AΒ R Interhouse competition this year, Fleming's softball team overpowered Lloyd's, 36 - 2, while Page was putting away Ruddock, 11 - 4. Monday saw Ruddock edged by Dabney in the fifth, 8 -7. In the other game, Ricketts squeezed by Blacker, 4 - 3. 0 1 Blacker came off this loss in 0 2 tremendous fashion by whipping 19 6 Lloyd 19 - 8 on Tuesday. In the day's other game, Page had its hands full with Dabney, but ΑB R managed to come out ahead, 5 -0 2 1 3. Wednesday, Fleming one-hit 0 2 Ruddock to gain a 16 - 1 win, 2 3 while Lloyd dropped its third straight, a 19-5 loss at the 3 hands of Ricketts. 0

Today's games pit Page against Lloyd and Fleming against Ricketts. Go out and support your house's team.

LLOYD -- 5
RICKETTS -- 19
(Scorekeepers, Anyone?)

PAGE				(Scorekeepers,	Anyon	16:7	
FAGE	АВ	Н	R	DABNEY			
Gayle	3	0	1		AB	Н	R
Pender	3 ·,	2	2	Sepulveda	4	3	2
Rea	3	2	2 .	Rountree	4	3	2
Curatalo	1	1	0	Brown	4	2	2
Kaye	3	1	0	Hilton	3	2	2
Kober	2	0	0	New	3	1	0
Wakai	2	0	0	Kelly	3	1	0
Kiddie	1	0	0	O'Hara	3	2	0
Gregg	2	0	0	Howard	3	1	0
TOTAL	20	6	5	Loh	3	1	0
				TOTAL	30	16	8
DABNEY							
	AB	Н	Rι	RUDDOCK			
Sepulveda	2	0	1		AB	Н	R
Rountree	2 ,	1	0	Carter	3	2	1
Brown	2	0	1	Wheeler	3	1	1
Hilton	3	1	1	Guthrie	3 -	1	1
Kelly	2	1	0	Munro	3	1	1
Levi	. 1	0	0	Phillips	3	1	1
Howard	1	0	0	Toner	3	1	1
Dunn	1	0	0	Walker	3	2	1
Loh	2	0	. 0	Linderman	2	1	0
O'Hara	2	1	0	Gray	2	1	0
TOTAL	18	4	3	TOTAL	25	11	7 .

	AΒ	H	R			АВ	Н	R
Carter	1	0	0		Tanaka	1	0	1
Guthrie	2	0	0		Sibley	3	0	0
Kim-E	1	0	0		Kistler	2	0	0
Munro	2	1	0		Larson	3	1	ō
Phillips	2	0	0		Boroson	2	1	0
Rader	2	0	0		Behen	3	0	0
Walder	2	0	0		Chang	2	1	. 1
Toney	1	0	0		Hamasaki	2	2	1
Bridges	1	0	0		David	2	0	0
Wheeler	-1	0	0		Whelan	1	0	0
Aziz	1	0	0		TOTAL	21	5	
McCorquodale	0	0	1		TOTAL	21	ວ	3
TOTAL	16	1	1		RICKETTS			
TOTAL	10	•	1		HICKETTS	4.0		
FLEMING					Dath others	AB	Н	R
FECIMING	АВ		-		Rothenberg	3	1	0
Clatar	4 4	Н	R		Slankard	3	1	1
Slater		2	2	***	Eckmann	2	1	0
Liang	5	4	3		Clingan	3	1	0
Ahern	5	3	2		Zebker	3	0	0
Miller	4	1	1		Simmen	1	0	2
Hurst	4	2	2		Lewis	3	2	0
Sheffield	3	3	1		Gard	3	0	0
Jacobs	4	3	1		Whitmore	0	0 -	1
Betz	4	2	2		TOTAL	21	6	4
Rassmussen	4	1	1					
Laver	1	1	0		FLEMING			
Gromley	1	0	0			AB	Н	R
Westover	1	1	1 .		Liang	3	2	3
Yang	2	2	2		Sheffield	3	2	3
TOTAL	42	25	16		Ahern	3	2	2
					Miller	3	2	2
					Slater			
DUDDOOK					Siater	2	2	3
RUDDOCK					Lage	2 2	2 2	3 2
	АВ	H	R					
Carter	3	2	1		Lage	2	2	2
Carter Aziz	3 3	0	1 0		Lage Jacobs	2 6	2 2	2 5
Carter Aziz Guthrie	3 3 2	2 0 0	1 0 1		Lage Jacobs Betz	2 6 2	2 2 1	2 5 2
Carter Aziz Guthrie Munro	3 3 2 3	2 0 0 0	1 0 1 0		Lage Jacobs Betz Rasmussen	2 6 2 4	2 2 1 2	2 5 2 4
Carter Aziz Guthrie Munro Crocker	3 3 2 3 2	2 0 0 0 1	1 0 1 0 1		Lage Jacobs Betz Rasmussen Record	2 6 2 4 2	2 2 1 2	2 5 2 4 1
Carter Aziz Guthrie Munro Crocker Rader	3 2 3 2 2	2 0 0 0 1 2	1 0 1 0 1		Lage Jacobs Betz Rasmussen Record Rousseau	2 6 2 4 2	2 1 2 2 1	2 5 2 4 1
Carter Aziz Guthrie Munro Crocker Rader Kim-E	3 2 3 2 2 2	2 0 0 0 1 2	1 0 1 0 1 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula	2 6 2 4 2 1	2 2 1 2 2 1	2 5 2 4 1 1
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson	3 2 3 2 2 2 2	2 0 0 0 1 2 0 1	1 0 1 0 1 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover	2 6 2 4 2 1 2	2 2 1 2 2 1 1 1	2 5 2 4 1 1 2 2
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges	3 2 3 2 2 2 2 2	2 0 0 1 2 0 1 0	1 0 1 0 1 0 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler	2 6 2 4 2 1 2 2 2	2 1 2 2 1 1 1 1	2 5 2 4 1 1 1
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson	3 2 3 2 2 2 2	2 0 0 0 1 2 0 1	1 0 1 0 1 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater	2 6 2 4 2 1 2 2 2 1	2 1 2 2 1 1 1 1 0	2 5 2 4 1 1 2 2
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL	3 2 3 2 2 2 2 2	2 0 0 1 2 0 1 0	1 0 1 0 1 0 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly	2 6 2 4 2 1 2 2 2 1 2 2	2 2 1 2 2 1 1 1 1 0 2	2 5 2 4 1 1 1 2 2 2
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges	3 2 3 2 2 2 2 2 2 2	2 0 0 1 2 0 1 0 6	1 0 1 0 1 0 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly	2 6 2 4 2 1 2 2 2 1 2 2	2 2 1 2 2 1 1 1 1 0 2	2 5 2 4 1 1 1 2 2 2
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL	3 2 3 2 2 2 2 2	2 0 0 1 2 0 1 0 6	1 0 1 0 1 0 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL	2 6 2 4 2 1 2 2 2 1 2 2	2 2 1 2 2 1 1 1 1 0 2	2 5 2 4 1 1 2 2 2 1 36
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL	3 2 3 2 2 2 2 2 2 2	2 0 0 1 2 0 1 0 6	1 0 1 0 1 0 0 1 0 0 4		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL	2 6 2 4 2 1 2 2 2 1 2 4 4 0	2 1 2 1 1 1 1 0 2 24	2 5 2 4 1 1 1 2 2 2 1 36
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL	3 2 3 2 2 2 2 2 2 2 2 2 1	2 0 0 1 2 0 1 0 6	1 0 1 0 1 0 0 1 0 4		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL LLOYD	2 6 2 4 2 1 2 2 2 1 2 40	2 2 1 2 1 1 1 1 0 2 24	2 5 2 4 1 1 1 2 2 2 1 36
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE	3 2 3 2 2 2 2 2 2 2 2 2 4	2 0 0 1 2 0 1 0 6	1 0 1 0 1 0 0 1 0 4		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi	2 6 2 4 2 1 2 2 2 1 2 40 AB 3 2	2 1 2 1 1 1 1 0 2 24 H	2 5 2 4 1 1 1 2 2 2 1 36
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE Gayle Pender	3 2 3 2 2 2 2 2 2 2 2 2 4 4	2 0 0 1 2 0 1 0 6	1 0 1 0 1 0 0 1 0 4 R 3 2		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin	2 6 2 4 2 1 2 2 2 1 2 40	2 1 2 1 1 1 1 0 2 24 H 0 0	2 5 2 4 1 1 1 2 2 1 36 R 0 0
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE Gayle Pender Rea	3 2 3 2 2 2 2 2 2 2 2 2 4 4 4	2 0 0 1 2 0 1 0 6 H 3 3 2	1 0 1 0 1 0 0 1 0 4 R 3 2 2		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin Byrne Rippley	2 6 2 4 2 1 2 2 2 1 2 40 AB 3 2 2 2	2 1 2 1 1 1 1 0 2 24 H 0 0 0	2 5 2 4 1 1 1 2 2 1 36 R 0 0 0
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE Gayle Pender Rea Curatalo	3 2 3 2 2 2 2 2 2 2 2 2 4 4 4 4	2 0 0 1 2 0 1 0 6 H 3 3 2 1	1 0 1 0 1 0 0 1 0 4 8 8 3 2 2 2		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin Byrne Rippley Tutt	2 6 2 4 2 1 2 2 2 1 2 40 AB 3 2 2 2 2 40 2	2 1 2 1 1 1 1 0 2 24 H 0 0 0 0	2 5 2 4 1 1 1 2 2 2 1 36 8 0 0 0
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE Gayle Pender Rea Curatalo Toney	3 2 3 2 2 2 2 2 2 2 2 2 4 4 4 4 4 4	2 0 0 1 2 0 1 0 6 H 3 3 2 1	1 0 1 0 1 0 0 1 0 4 R 3 2 2 2 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL LLOYD Crimi Bachovchin Byrne Rippley Tutt Gray	2 6 2 4 2 1 2 2 2 1 2 40 AB 3 2 2 2 2 2 40 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 2 1 1 1 1 0 2 24 H 0 0 0 0	2 5 2 4 1 1 1 2 2 2 1 36 8 0 0 0 0
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE Gayle Pender Rea Curatalo Toney Heinz	3 2 3 2 2 2 2 2 2 2 2 2 4 4 4 4 4 4 4 4	2 0 0 1 2 0 1 0 6 H 3 3 2 1 1	1 0 1 0 1 0 0 1 0 4 R 3 2 2 2 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin Byrne Rippley Tutt Gray Thompson	2 6 2 4 2 1 2 2 2 1 2 40 AB 3 2 2 2 2 40	2 1 2 1 1 1 1 0 2 24 H 0 0 0 0 0	2 5 2 4 1 1 1 2 2 2 1 36 8 0 0 0 0 0
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE Gayle Pender Rea Curatalo Toney Heinz Esker	3 2 3 2 2 2 2 2 2 2 2 2 2 4 4 4 4 4 4 2 2 2	2 0 0 1 2 0 1 0 6 H 3 3 2 1 1 1	1 0 1 0 1 0 0 1 0 4 R 3 2 2 2 0 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin Byrne Rippley Tutt Gray Thompson Purch	2 6 2 4 2 1 2 2 2 1 2 40 AB 3 2 2 2 2 1 2 2 1 2 2 2 1 2 2 2 2 1 2	2 1 2 1 1 1 1 0 2 24 H 0 0 0 0 0 1 0	2 5 2 4 1 1 1 2 2 2 1 36 8 0 0 0 0 0 1 0
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL PAGE Gayle Pender Rea Curatalo Toney Heinz Esker Lu	3 2 3 2 2 2 2 2 2 2 2 2 2 4 4 4 4 4 4 2 2 1	2 0 0 1 2 0 1 0 6 H 3 3 2 1 1 0 1	1 0 1 0 1 0 0 1 0 4 R 3 2 2 2 0 0 0 1		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin Byrne Rippley Tutt Gray Thompson Purch Whitcomb	2 6 2 4 2 1 2 2 2 40 AB 3 2 2 2 2 1 2 40 2 1	2 1 1 1 1 1 0 2 24 H 0 0 0 0 0 0	2 5 2 4 1 1 1 2 2 2 1 36 8 0 0 0 0 0 1 0 0 0
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL  PAGE  Gayle Pender Rea Curatalo Toney Heinz Esker Lu Wakai	3 2 3 2 2 2 2 2 2 2 2 2 2 2 4 4 4 4 4 4	2 0 0 1 2 0 1 0 6 H 3 3 2 1 1 0 1	1 0 1 0 1 0 0 1 0 4 R 3 2 2 2 0 0 0 1 1		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin Byrne Rippley Tutt Gray Thompson Purch Whitcomb Konishi	2 6 2 4 2 1 2 2 2 40 AB 3 2 2 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 2 2 2 1 2 2 2 2 1 2	2 1 1 1 1 0 2 24 H 0 0 0 0 0 1	2 5 2 4 1 1 1 2 2 2 1 36 8 0 0 0 0 0 1 0 0 1
Carter Aziz Guthrie Munro Crocker Rader Kim-E Carlson Bridges TOTAL  PAGE Gayle Pender Rea Curatalo Toney Heinz Esker Lu Wakai Kaye	3 2 2 2 2 2 2 2 2 2 2 2 2 1 4 4 4 4 4 2 2 1 3 2 2 2 2 2 1 3 2 2 2 2 2 2 2 2 2	2 0 0 1 2 0 1 0 6 H 3 3 2 1 1 0 1 1 1	1 0 1 0 0 1 0 0 1 0 4 8 3 2 2 2 0 0 0 1 1 0		Lage Jacobs Betz Rasmussen Record Rousseau Sutula Westover Lawler Atwater Findly TOTAL  LLOYD  Crimi Bachovchin Byrne Rippley Tutt Gray Thompson Purch Whitcomb	2 6 2 4 2 1 2 2 2 40 AB 3 2 2 2 2 1 2 40 2 1	2 1 1 1 1 1 0 2 24 H 0 0 0 0 0 0	2 5 2 4 1 1 1 2 2 2 1 36 8 0 0 0 0 0 1 0 0 0

20% DISCOUNT WITH AD offer expires Oct. 24,75

34

14

Daily 5:30-9:30 PM Fri. & Sat. 5:30-10:30 PM Closed Mondays

A great opportunity awaits you.

Experience the romance and mystique
of Indian gourmet cuisine.

Special arrangements for large groups.

TOTAL

41 So. Los Robles, Pasadena Parking on Green & Euclid Reservations 796-5515 Private parties by reservation.

Second Class Postage paid at Pasadena, California, The California Tech is published weekly except during examination and vacation periods by the Associated Students of the California Institute of Technology, Inc., Winnett Center, Caltech 105-51, Pasadena, CA 91125.