

Amphitryon Premiere Tonight In Ramo

by Peter Beckman

Third term starts with a bang (in more ways than one) Thursday when *Amphitryon* by Moliere, licentiously translated by our own Oscar Mandel, opens in Ramo Auditorium.

The play concerns that original dirty-old-god, Jupiter, who falls for Alcmena, the wife of Amphitryon. In order to reach her Jupiter impersonates Amphitryon (gods can do things like this) while Mercury transforms himself into Sosia, the family slave. As one might expect, the ensuing complications form the major part of the comedy.

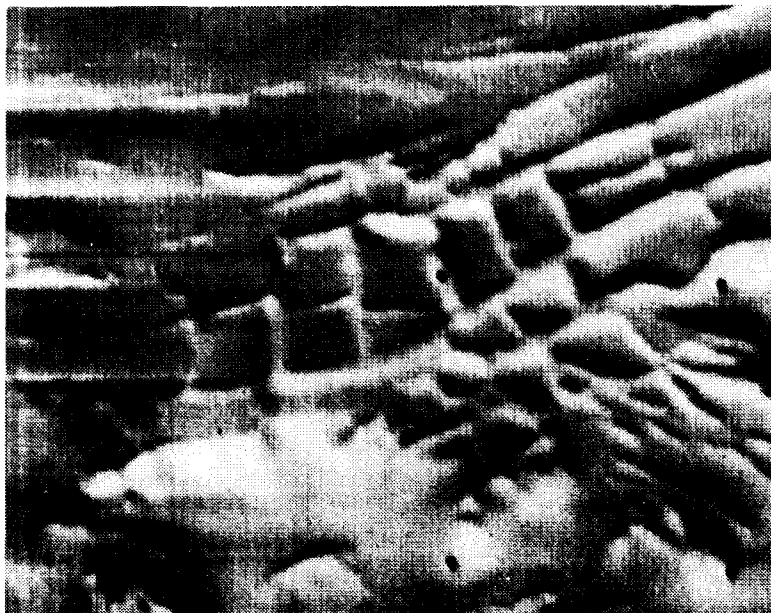
This play is being produced by Spectrum Productions, a group recently organized here at Caltech. The philosophy behind the group says that plays should be entertaining first, while religious, political, and psychological messages come second. Performances will be tonight and tomorrow night at 8:30 p.m. in Ramo Auditorium. Tickets are \$3.00, \$2.00 for students, and \$1.00 for Caltech students.

Sing A Song . . .

This will be followed Saturday by a *Young Americans* concert in Beckman Auditorium. This group of talented singers has a very formidable repertoire of classical, sacred, traditional, and popular songs. For ticket information call 793-7043.

The Caltech Lecture Series starts again Monday with a talk on "The Non-Military Effects of Herbicides in Vietnam" by Matthew S. Meselson, Professor of Biology, Harvard University. Dr. Meselson will discuss the results of a survey he conducted in the summer of 1970 that investigated the effects of defoliants on the ecology of the region and the

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This is not a Vietnamese village about to be zapped by B-52's, but a mysterious group of ridges near the south pole of Mars. Bruce Murray would like to learn about Mars and the outer planets first hand—instead of from the Soviets. Read our article on page six.

Grad Program In Social Sciences Announced

The long-awaited announcement was finally made this Monday, and it's official now: Caltech has established a graduate program in social sciences, and will begin admitting students next September. The program is, of course, Caltech's first outside the science and engineering fields, but C. J. Pings, Dean of Graduate Studies, calls it "a logical outgrowth of Caltech's belief that basic research and study in science and engineering can mesh with social science to better solve some of society's problems." The program, designed by the social science faculty at Caltech, emphasizes both theory and field work, measurement, and testing.

The program will continue the Caltech traditions of quantitative and analytical methods of re-

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EQL Wants You!

Attack Problems On Summer Jobs

Want a high-paying summer job working for a well known corporation with fringe benefits such as paid vacations, a company car, and an unlimited expense account? Try the placement office. But if you're interested in a reasonable paying summer job with an organization that will put your mind (and experience) to work on real-world problems, then read on.

Caltech's Environmental Quality Lab is looking for approximately fifteen undergraduates from all backgrounds to work this summer on a variety of projects. Physical and social scientists, engineers, and theoreticians are needed to work on projects concerning air and water pollution, water resources management, energy conservation, fossil fuels management, and solar energy. Without the fancy titles, the questions are: how can we

2100:IVCF & "Y"

by Claude Anderson

Twentyonehundred, a creative multi-media presentation of Christian concern, will be presented in Dabney lounge Saturday at 7:30 p.m. The program was produced by Inter-Varsity Christian Fellowship and is sponsored by the Caltech Y.

Twentyonehundred was initiated by Eric Miller and was developed in Pasadena in 1970. It has since been presented and acclaimed throughout the country and in many foreign countries. The production is based on the music of today and involves light shows, slides, and movies. It is revised and updated each year. The images on the multiple

screen are coordinated by computer with one another and with the audio portion to create an all-involving presentation of our world.

Encounter Weekend

The Y encounter weekend is April 7-9. Three personal exploration groups were formed last term, and this weekend will climax their involvement. Students who were not involved are welcome to come on this weekend experience, and a fourth group may be formed if enough people are interested. Register in the Y office.

Congressional Campaign

Every candidate for the 20th district Congressional seat has been invited by the Y to speak here, and it is hoped that all will come. John Binkley, Democratic candidate for this office, will give an Olive Walk Talk on Wednesday, April 5. Mr. Binkley is the director of the Foothill Free Clinic and a member of the American Field Service Committee. He is a former school teacher and is active in many civic groups. He is interested in learning the concerns of students in his district and visited Caltech last term for this purpose.

Register Now!

As a result of a recent Court decision, students attending college in California can register to vote in California, regardless of residency requirements. Out-of-state students can register to vote here, and vote in the California primaries in June, regardless of the requirements of their home state.

You must be registered by April 13 in order to be eligible for the California primary. You can be registered by Lorne Schachter in Fleming; John Cross, 28 Kerckhoff X1959; Dave White, 351 Crellin X2030; or Jerry Glashagel, Caltech YMCA.

News Briefs

Royal Astronomical Society Honors Zwicky

Dr. Fritz Zwicky, professor emeritus of astrophysics at the California Institute of Technology, has been awarded the Gold Medal of the Royal Astronomical Society for his "distinguished contributions to an understanding of the galaxy and the universe."

Dr. Zwicky, 74, predicted and discovered compact galaxies, pioneered in the discovery and understanding of supernovae and long has done research on the distribution of matter in the universe.

The astrophysicist, who will receive the award in London on November 10, has just issued a catalog of 4,000 compact and posteruptive galaxies. He supervised the production of a six-volume catalog of 40,000 galaxies and 10,000 clusters of galaxies.

Interested in Veterans' Affairs?

The Federation of College Veterans is holding a 'gathering' at Cal State L.A. on April 8, and has invited veteran representatives of Caltech to come. Any military service veteran attending Caltech who is interested in being designated an unofficial Caltech representative, or who wants further details, please contact Ed Schroeder, *California Tech* office.

Job Discrimination Topic of Industrial Relations Seminar

Thursday, April 6, there will be a seminar on job discrimination, problems involving race, religion or sex and entitled "Putting the 'Action' in Affirmative Action." The moderator will be Dr. Arnold J. Auerbach of the management firm of Enki

Institutes in Chatsworth. He will be joined in the workshop by George Jones, affirmative action compliance officer for the Los Angeles Community Redevelopment Agency; Muriel M. Morse, manager of the personnel department of the city of Los Angeles; and Fred Rodriguez, professional placement representative for Litton Data Systems.

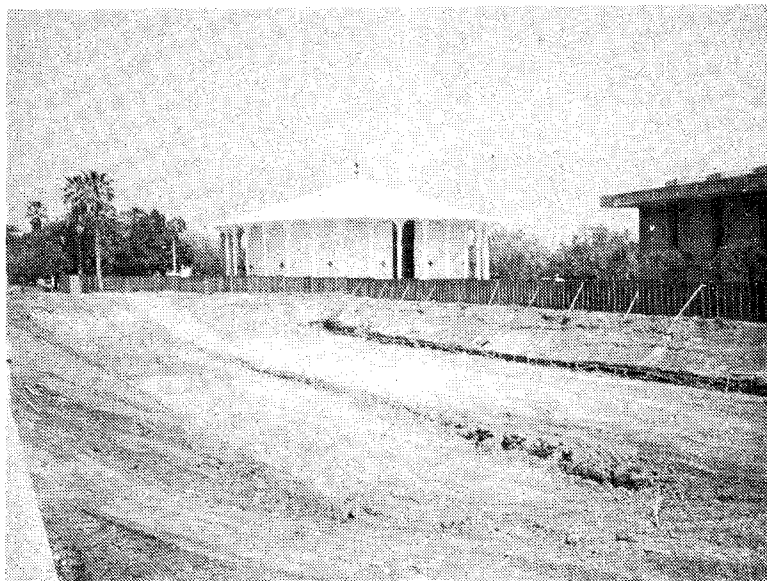
Information regarding workshop reservations may be obtained from the Industrial Relations Center at Caltech.

Jesse Beauchamp Winner of \$25K Grant

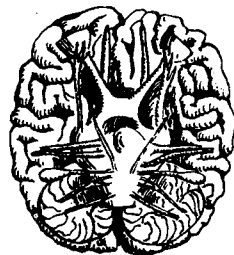
Dr. Jesse L. Beauchamp, Caltech associate professor, is one of 16 young chemists to receive grants from the Camille and Henry Dreyfus Foundation for "new concepts in teaching and

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Next Year's Mudeo Pit?



Construction of the new Behavioral Biology Building is proceeding at a rapid pace. Note the activity exhibited by the work crews. Photo by Claypool.



from the cerebrum

by Schroedlu

The words carved above the doorways say, "The Truth Shall Make You Free." A more accurate motto might be, "Service Shall Make You Rich (Maybe)." Radicals would suggest that for 'Service' we read 'Servility.'

Let's consider for a moment what Caltech is. In particular, let us consider what Caltech isn't: it isn't a place at which people can do what they want academically. Some of the constraints are institutional: undergrads and grads have required courses, or subjects they want to take aren't offered or don't 'count' and they can't find the time to do the work on their own. Some constraints are ethical: we don't do biological warfare research here (so far as we know). Some constraints are financial: money exists only for certain subjects, and it is very difficult to do expensive research without outside help. Is this situation a 'free' one, and can it be helped?

That question can be answered in the case of the institutional constraints directly and unequivocally: no, we are not free, and yes, it can be helped. 'Academic freedom' is a misused and elusive concept, but there can be little doubt that benighted curriculum conservatism is not only insulting but counterproductive in its effects upon students, and the coercive elements of education (aptly paraphrased by some observers as 'We've got you by the credits') ought to be abolished, and no doubt soon will be. Caltech has made great strides in the last half-decade, and has a long way yet to go.

Aside from this issue, however, is a more particular one: what is the role of education at Caltech? As Caltech is currently set up, it can best be understood as a research institute, which takes only secondary interest in education (especially undergraduate education). The reasons for this are clear: financially, Tech gains much from the research

activities of its faculty and little from the education of its students. Graduate students are necessary for the research model, but undergrads are much less directly useful, and have no significant financial 'votes' to rectify any imbalances against them. As last November's *President's Report* tells us, student fees provide only 10% of the Institute's revenues, and student aid from outside about 7%, and instructing us takes up a great deal of professorial time (although probably not as much as we'd like). Since we may all be considered to be here at the sufferance of the Institute, it is actually surprising that many of the faculty are as helpful and concerned as they are. Still, this bodes poorly for our chances of far-reaching educational reform here.

All this seems to be wrong somehow. The problem is apparently that education, a great ethical demand, simply has not got the monetary resources in any way comparable to its importance in our society (and we all know what generally happens when values and money conflict). Holding Caltech responsible for a nation-wide situation somehow doesn't seem very fair, or productive.

Various solutions to the problem have been suggested. Paul Goodman has suggested the establishment of poverty-seeking schools which would be able to maintain a militant academic freedom. These schools also would do away with Administration, as an unnecessary restrictive and public-relations oriented non-academic part of a college. I doubt that many Tech instructors, at least, would be very willing to sacrifice their research funding for academic freedom (and it would take that much), even on behalf of themselves. Even in such a college, students would either have to pay their own way or be

Continued On Page Three

ASCIT To Discuss Co-op, Bookstore, Appointments

by Jim Hugg
ASCIT Secretary

Today's agenda (4 p.m. Winnett Lounge):

1. ASCIT appointive offices. The BOD will appoint an Elections Chairman, Game Room Chairman, Business Mangler for *California Tech*, *little t* Editor, Business Mangler for *little t*, and *Totem* Editor. Nominations will be reopened for Educational Policies Committee (at large members), *Big T* Editor, Business Manager for *Big T*, and *Totem* Business Manager. Nominations must be submitted in writing to Jim Hugg (Page House). Nominations will close Thursday, 6 April.

2. Bookstore. Mike Wimbrow will report on the administration's reception of the ASCIT proposals for short-term changes in the operation of the bookstore. Any ASCIT member interested in working on the Bookstore Anti-Ripoff Committee (BARK) should contact Mike Wimbrow (Dabney).

3. Co-Op Housing. The BOD is looking for an interested person to work with Dave Smith in setting up co-op housing to begin this summer. To find out more about the possibilities of co-op housing contact Joe Morin (Dabney) or Dave Smith (Master's Office).

4. Coffee Hour. Jim Price will announce details of the ASCIT Coffee Hour. In the past the Coffee Hour has proved to be an easy way to meet professors and to get some great donuts.

5. Approve athletic award recommendations.

6. Budget planning. Representatives of any ASCIT club which needs a budget allocation should be present to make a request. The budget meeting, as all BOD meetings, is open to ASCIT members. Meetings are held every Thursday at 4 p.m. in Winnett Lounge. Refreshments are served.

Letters

Demo Reform Question

Dear Editors:

At the Democratic Convention of 1968 the corruption and dishonesty were so great that the party established a special commission to change the way people were selected as delegates to the national convention. The result was the open caucus system which was used last month. In the opinion of some it was a tremendous step forward that opened up the Democratic Party to broad grass roots participation.

My own bitter experience has proven to me that the caucus system is a sham where the men in the back room still have the final say. Let me tell you what I discovered about broad grass roots participation in the Democratic Party.

I am a high school student and was a committed Muskie supporter. When I heard about the caucus system, I immediately made plans to run as a Muskie delegate. For a month I worked my neighborhood over from top to bottom, gathering support from the entire spectrum of my community. My district caucus was held on Feb. 12. When the votes were counted, of the twenty five who sought the ten open delegate positions I was number two.

Then things began to get tricky. Each candidate has a state wide selection committee which is supposed to certify the election of those picked at the neighborhood caucuses and make sure women, students and minority groups were included in the make up of the delegation.

The Muskie state selection committee met recently and they did some very interesting things. I was bumped off the delegation to make room for a girl who didn't even bother to attend the district caucus. It's easy enough to explain; her father is the mayor of Bellflower. Another interesting event was this: according to the rules laid down by the commission, fifty per cent of the delegates have to be women. When the selection committee

met, the districts which were represented by powerful Democrats had almost no women on the slate. They then proceeded to force the people from less powerful districts to make up their deficit. As a result in the less powerful districts men were bumped left and right so the quota could be met.

The attitude of the people on the selection committee toward young people is particularly disturbing. They seem to feel that young people dislike Nixon so much that the party has the youth vote in its pocket.

People have been sold a false bill of goods. They have been told by the press and other media that the Democratic party has reformed itself.

It isn't true.

—Dick Levinson
2601 E. Santa Fe
Fullerton, Cal.

Editorial

P.E. Credit for Four-Square

Mr. Warren Emery, Director of Athletics, will be visiting Ricketts House during lunch today to observe a game of four-square. Ricketts would like to see P.E. credit given for this vigorous, physical activity.

We do, too.

—Gavin D. Claypool

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by Phil Frank



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What Techers Are Like...

A survey taken at first-term registration shows that freshmen entering Caltech argued with their high school teachers more, were younger and were more interested in music than average students entering college.

Sponsored by the American Council on Education, the survey was given to entering freshmen at hundreds of colleges and universities.

The average Caltech freshmen was an "A" student in high school, compared with the typical college freshmen, who was a "B" student. The Caltech freshmen ranked much higher in National Merit Scholarship competition; 79 percent of them were recognized in this competition compared with 8.9 percent of the typical freshmen.

Eighty-seven percent of those entering Tech plan to obtain a Ph.D, compared with 12.7 percent of the others.

The survey showed that girls were more frequently recognized in National Merit Scholarship competition than Caltech men and less frequently planned to do

graduate work. The girls are much more interested in biology and less in physics. Forty-one percent of the Caltech girl freshmen chose biology as their major, compared with only 9.5 percent of the men.

Both the men and women rated development of a philosophy of life as the most important intangible goal, the girls stressing its importance more than the men.

The survey also showed that Caltech's entering men were one-third year younger than others on the average and that their parents' income is \$3-4,000 higher. Their father is more likely to be a professional man but most frequently is a businessman. Sixty-two percent of the fathers of Caltech freshmen have college degrees compared with 32 percent of the others.

Along with a modest majority of all freshmen, those entering Caltech don't believe grades should be abolished and do believe that students should help evaluate faculty.

AFROTC Scholarship

by Peter Szolovitz

Robert Plaag, a Junior Physics major from Blacker House, has been awarded a scholarship from the United States Air Force for his last five terms at Caltech. The award is under a new scholarship program inaugurated this year for students in two-year AFROTC programs. About six hundred scholarships are being awarded under the program, to cover tuition and fees and to provide an allowance for books and supplies to those students selected nationwide by the Air Force as promising future officers.

Although members of the Caltech AFROTC unit have received scholarship support in the past from the Air Force, they have had to qualify on the basis of two years involvement in

an officer training program in addition to their AFROTC training at Caltech. Robert B. Hammond, commissioned in June 1971, now a graduate student in Applied Physics at Caltech, and Robert E. Jackson, commissioned in June 1970, now in graduate school at UC Santa Cruz in Astrophysics, have been the previous holders of Air Force ROTC scholarships at Caltech.

Bob Plaag is, coincidentally, the only pilot candidate at Caltech. How does the scholarship affect Bob's time of service? He will have an additional two year obligation in the inactive reserve. This yearly scholarship program should provide several Techers who seek to serve in the Air Force with financial support to complete their studies.

Cal State Grad Fellowship Deadline

Applications for State Graduate Fellowships for 1972-73 must be postmarked and sent to the State Scholarship and Loan Commission by April 3, 1972, and Graduate Deans have requested students to submit their applications to them at least two weeks prior to the deadline so that they can make a summary evaluation ranking for each student. There will be 740 State Graduate Fellowships available which are in the amount of tuition and required fees at graduate and professional schools for full-time students. State Graduate Fellows may attend any California college or university accredited by the Western Association of Schools and Colleges and offering recognized graduate and professional degrees in the sciences, social sciences, humanities, the arts, mathematics, engineering, business, education, law, medicine, dentistry, veterinary medicine, pharmacy, and other similar programs. All applicants must submit scores from the aptitude test of the Graduate Record Examination or other admissions tests for dentistry, law, business and medicine depending on the school to be attended.

Applications are available from the State Scholarship and Loan Commission, 714 P Street, Sacramento, California 95814; from graduate and professional school offices, or financial aid offices.

Humanities

Continued From Page One
garding problems, methods often found in economics and increasingly in various other social sciences. The program is also expected to be extremely small; Dr. Huttenback anticipates only about five students enrolled in the program the first year, and not many more thereafter.

Academic work for the new students would include over a year of 'tightly-structured course work,' and a great deal of research time. The latter would include applied work, perhaps for Caltech's Environmental Quality Lab, or even for JPL's social problems section. Students who

Cerebral Jump

Continued From Page Two
dependent upon academic freedom and educational idealism in order to best structure their own academic experience. 'Student power' tends to be chimerical at best. Educational ideals have gone by the wayside; students are to be used (and use themselves) to man the societal roles, and let the rest be. In such an atmosphere, 'academic freedom' and educational demands have no real place.

gain their doctorates are expected to be qualified for high decision — making positions or generalist academic positions.

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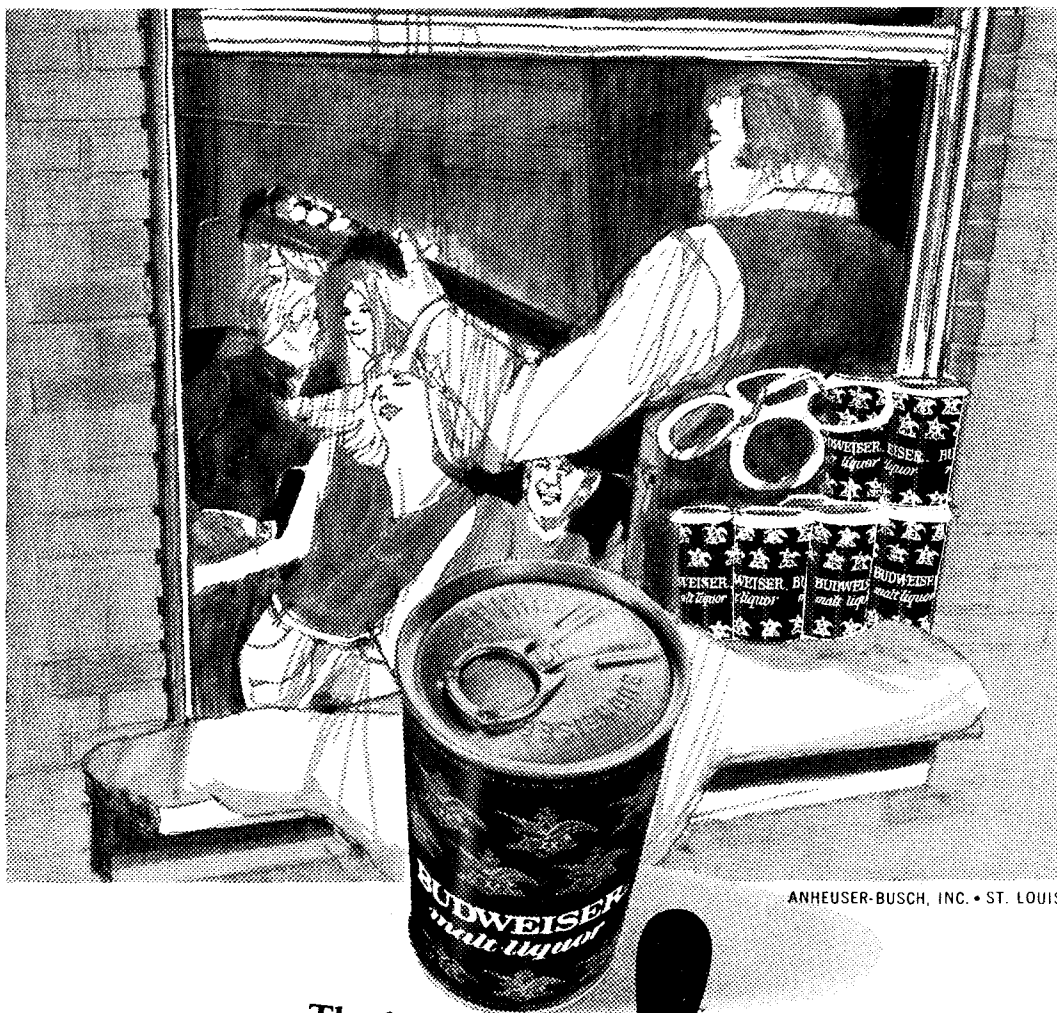
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Ear

Continuing with our policy of rating records on whether or not you should buy them, this week's batch includes a YES, a high MAYBE and a NO.

The YES goes to Kris Kristofferson's new album, "Border Lord," his third album. "Border Lord" contains all new material with the exception of one song that is four years old, "Somebody Nobody Knows." The album has lots of instrumental backing, as well as background voices that include Rita Coolidge. I don't think that any of the songs will ever be as popular as something like "Me & Bobby McGee," but there is some good music on the album. "Josie," "Border Lord," and "Smokey Put the Sweat on Me" are the best of the album. It seems that Kris writes is about women, people moving or people too lost to move, and this album is no exception, with all three kinds. If you like Kris, it's a good album. (Monument, KZ 31302)

The MAYBE goes to Humble Pie's latest offering, "Smokin'," a hard rocking album that blends some old songs with some new material written by the Pie. On such songs as "Hot & Nasty" the Pie sounds a little bit like Led Zeppelin, only a hell of a lot less repetitious. Other songs, such as "Sweet Peace & Time," are also rockers, but with some vocals. On their original numbers, lead singer Steve Marriott writes the lyrics and the Pie writes the music. The rest of the album consists of new versions of oldies, like Eddie Cochran's "C'mon Everybody" and the motown mover, "Road Runner." The reason that this album rates



only a MAYBE is that the quality is inconsistent, with a few really fine numbers and a few that don't have anywhere near the same quality. It's really hard to listen to an album when you feel like skipping every third cut. (A&M, SP4342).

The NO goes to Philip Goodhand Tait's "I Think I'll Write a Song." He did; in fact he wrote a whole album of them, but he can't sing. He plays piano, and he has a nice backup group, and a few of his songs, such as the title cut and a thing called "Silverwing," have nice lyrics. On "Medicine Man" he proves that he can rock. But he can't sing. Oh yes, for some reason the album is recorded at Blue Cheer volume, rather odd for an album of mostly ballads. And PGT can't sing. (Bell-DJM 9102).

-Smithnik



In response to no requests whatsoever, I am including plays and an occasional classical concert in these listings. Watch for them. They may be anywhere.

The ANAHEIM CONVENTION CENTER is the site of a Deep Purple concert on April 15th, along with the Buddy Miles Band.

The SANTA MONICA CIVIC is just loaded with all sorts of stuff. On March 31, Fanny and Stoneground (not to mention Jackie Lomax) fill the stage, followed by Chase, Hamilton, Joe Frank & Reynolds (no, no, that's not one group, that's two groups) on April 8th. The J. Geils Band and Edgar Winter round things out on the 11th.

The HOLLYWOOD PALLADIUM has sort of an interesting concert on April 7th. The main act is West, Bruch & Laing. For

those of you who are still working on dividing the Civic concert into its component parts, let me point out that West is Leslie West, lead guitarist from Mountain, Laing is Corky Laing, drummer from Mountain, and Bruce is Jack Bruce, formerly of Cream and lots of other things. Now that that's settled, I can say that Free and Dr. Hook are on the same bill.

The DOROTHY CHANDLER

PAVILION features Shirley Bassey in concert on April 2nd, surrounded by a bunch of Zubin Mehta and Carmen Dragon. On March 30th and 31st (also April 2nd??) Mehta conducts the L. A. Philharmonic in Bach's "St. Matthew Passion." Meanwhile, on the first of April, Dragon conducts the Glendale Symphony Orchestra in its season finale with a program of Brahms, Hindemith and Mahler.

Nearby, at the MARK TAPER FORUM, "Volpone" continues being presented until April 23rd. Richard Chamberlain stars as "Richard II" at the AHMANSON. Henry Fonda's "The Time of Your Life" is at the HUNTINGTON HARTFORD until April 8th. "Tommy" continues at the AQUARIUS, its run having been extended until people stop going.

Continued On Page Eight

"THE GODFATHER" BECOMES AN INSTANT CLASSIC AMONG THE SUPERFLICKS!"
—Charles Champlin, L.A. Times

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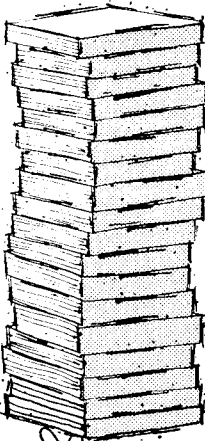
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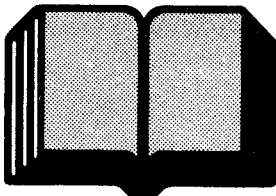
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The Children's Crusades

Slaughterhouse Five — Produced by Paul Monash, Directed by George Roy Hill, starring Micheal Sacks (Billy Pilgrim), Ron Leibman (Paul Lazarro), Eugene Roche (Derby), Sharon Gans (Valencia), and introducing Valerie Perrine (Montana Wildhack). Screenplay by Stephen Geller, based on the novel by Kurt Vonnegut, Jr.

Billy Pilgrim has come unstuck in time. Unlike most mortals, whose lives have beginnings, middles, and ends, Billy Pilgrim lives his life contrapuntally: several themes in his life develop almost simultaneously. He jitters back and forth between youth, middle and old age, and everywhen in between.

Kurt Vonnegut's celebrated novel, *Slaughterhouse Five* presents obvious opportunities (and

pitfalls) for the filmmaker. The rapid shifts in Billy's chronically disoriented life lend well to conventional (and unconventional) cinematic transitions; film editor Dede Allen and director of photography Miroslav Ondricek conspire to make full and effective use of these opportunities.

Cinematography Creative

The standards of cinematography have improved so much within the last few years that few films are capable of exciting jaded film-goers with the excellence of their photography. But even amongst this crowded field, Ondricek rises to new heights. The candlelit procession out of the meat locker is one of the most eloquent sequences I have seen on film.

The acting is on a similarly

SILVER SCREENING

high level. All of the major characters are played by relative newcomers. Michael Sacks plays the perfectly ordinary man, Billy Pilgrim, with extraordinary sympathy and skill. Valerie Perrine makes an impressive debut in this film as Montana Wildhack — she brings a refreshing humanity to her role as a Hollywood starlet abducted by fourth-dimensional Tralfamadorians. Friedrich Ledebur is outstanding in a small role as the German Kommandant.

Vonnegut 1, Dresden 0

Most of the Dresden sequences were filmed in Prague, Czechoslovakia; in fact, "Schlacht-of-funf" is an actual slaughterhouse in the old section of that city. (Dresden was completely destroyed in Allied bombing raids during World War II — Kurt Vonnegut, then a prisoner of war in Dresden, was one of the few survivors. He sat out the raids in a subterranean meat locker, much like the one Billy Pilgrim is in).

An all-Bach score arranged by Glen Gould provides an excellent counterpoint to the film. The musical accompaniment to the long march scene through the beautiful baroque city of Dresden is particularly appropriate.

Many viewers have called the film strange and bizarre. But Kurt Vonnegut wouldn't have wanted it any other way. If Vonnegut's tragi-comic and disjointedly delightful view of the univser holds any appeal for you, you will enjoy *Slaughterhouse Five* immensely.

—Phil Neches

One Is A Lonely Number

One is a Lonely Number, Starring Trish Van Devere, Monte Markham, Janet Leigh and Melvyn Douglas. Directed by Mel Stuart. A David L. Wolper production, released by MGM.

This film is the story of a woman's search for a new place in life. It opens abruptly, with her husband walking out over a trivial incident, and ends with divorce proceedings. What comes in between is the main character (Trish Van Devere) learning to cope with the realities of being single again. She is aided (or hindered) by the efforts of the friend of a friend, the head of the Marin County Divorcees League (Janet Leigh).

Much of the film is taken up in contrasting the cynical views and attitudes of Miss Leigh with the honest and homespun thoughts of the local produce man and father figure, Melvyn Douglas. In fact, given his seeming omniscience compared with all of the other characters, Mr. Douglas is also a God figure, even if he does sell lettuce.

Even though Amy Brower's (Miss Van Devere's) husband is portrayed as a genuine turkey of a man, his loss leaves a vast gap in Amy's life, since she apparently had never held a job in her

life, nor had a creative thought since college. This gap is filled by love for the new man in her life, played by Monte Markham, of television infamy. (I say infamy because he has proven himself to be a reasonable actor, but gets such terrible roles on television.) Amy's affair with MM takes up much of the rest of the film.

There are several flaws in the flow of action, and several incidents seem to be almost Fenimore Cooperish in their improbability. I mean, how many women really get lifeguard jobs (no experience, remember) through the offices of leering and rape-minded employment agents, near enough to her home so that all of the major characters can drop by the pool when necessary to the plot. Several of the images are trite, but the filming was very good, as well as most of the acting. I would say that most of the flaws were in the screenplay. The acting was good, especially that of Miss Leigh and Mr. Douglas. The film had its two token black characters, a sculptor and a clerk, with about three lines each. It even had good grafitti, such as "Uncle Wiggly was a neo-classicist." Who could ask for more?

—Nick Smith

Kamb Appointed Geo Chairman

Dr. Barclay Kamb, geologist and an authority on the structure of crystals and of glaciers, has been named chairman of the

Division of Geological and Planetary Sciences of the California Institute of Technology, President Harold Brown announced earlier this month.

The appointment of Dr. Kamb, an alumnus who has been a Caltech faculty member for 16 years, will become effective July 1. He will succeed Dr. Eugene M. Shoemaker, who has headed the division since January, 1969, and who is resigning the chairmanship to devote full time to teaching and to his research on the origin and history of the moon, the geology of the Grand Canyon area and paleomagnetic studies.

Born in San Jose, Calif., Dr. Kamb graduated with honors in physics from Caltech in 1952, and obtained a PhD in geology at Caltech in 1956. He joined the faculty that year. From 1956 to 1958 he was in charge of Caltech's summer geology field camp. In 1961 he was elected a fellow of the Geological Society of America and the following year became a fellow of the American Geophysical Union.

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EQL: Not Much Hope

There is no hope of reaching Federal air quality standards in Los Angeles and San Francisco by simply reducing emissions from pollution sources, according to a report released today by Dr. John List of Caltech's Environmental Quality Laboratory.

Use of fossil fuels in the two most populous areas of the state is so large and growing so rapidly that the only way air pollution can be pushed down to the Federal requirements is by wholesale replacement of fossil fuels by zero-emission power sources. These would include industrial sources as well as automobiles.

"At the moment," according to List, Caltech assistant professor of environmental engineering science, "the only such power source is nuclear generated electricity."

Minimax

List reached his conclusions by calculating minimum technologically feasible emissions from air pollution sources. For motor vehicles he assumed this would be the 1975 levels called for by the Environmental Protection Agency, and for stationary sources he figured the best would be the same rate of emissions as that of a kitchen stove. These assumptions he regarded as "almost Utopian." The minimum emissions were then related to air quality by using an air basin model developed from South Coast Air Basin statistics by Caltech graduate student John Trijonis.

With 94 percent of the energy used in the state provided by the combustion of fossil fuels and 72 percent of this combustion concentrated in 10 percent of the land area (the L.A. and San Francisco air basins), List found that the present 4 percent per annum growth in fuel use will swamp the best efforts to drive down emissions from the burning of gasoline, natural gas and other fossil fuels in the Los Angeles

and San Francisco areas.

Down with Emissions!

If achieved by 1975, List's minimum feasible emission factors for various sources would reduce hydrocarbon and carbon monoxide emissions to about 10 percent of 1969 levels and would mean a reduction of oxides of nitrogen output to about 20 percent of 1969 levels.

"Such reductions would have a very significant effect on air quality," List said. "But this gain could only be maintained by assuring that every new energy source within the basin (including automobiles) had zero emissions. At the present time this means nuclear power. There is obviously no hope of satisfying the Federal Ambient Air Quality Standards without wholesale replacement of fossil fuels by nuclear power."

More News Briefs

Continued From Page One
research and other creative ideas in higher education."

The \$25,000 grant is intended to give Beauchamp, 29, the opportunity to develop his research and teaching potential early in his career.

A talented designer and builder of instruments, Beauchamp will use a substantial part of the grant for some much-needed equipment for new areas of research. One involves Beauchamp in a joint Caltech-JPL project aimed at understanding chemical reactions in planetary atmospheres and interstellar space.

Green Thumbs Take Notice

Anyone interested in flower or vegetable gardens on campus this spring, please contact Paul Morand, O/C Fleming. Land and tools will be supplied by Tech.

Russia's growing space program has produced a powerful new rocket, the Proton, that already has sent two Viking-class spacecraft to Mars years before the United States launches its Viking to Mars in 1975.

Dr. Bruce Murray, who heads America's 1973 Mariner Venus-Mercury TV imaging team, told the House Sub-Committee on Space Science and Applications that the Proton booster has made possible the emergence of "a whole new class of Soviet unmanned lunar and planetary science missions."

Comparing the booster rocket to the projected U. S. Titan 3C/Centaur, Dr. Murray, who is professor of planetary science at the California Institute of Technology, declared, "Thus the Soviets have made operational a Viking class spacecraft and launch vehicle about five years ahead of the United States."

America's successful space effort, which is capable of making "great discoveries, stands to be overshadowed through the 1970's by a much larger and still growing Soviet effort," warned Dr. Murray.

After urging development of a U.S. space program comprising the kind of missions in which America excels — TV pictures and remote sensing devices — Dr. Murray declared: "The abrupt cancellation of Grand Tour raises real questions as to what kind of future we hold out for ourselves. I feel that the cancellation was a self-inflicted setback of unprecedented magnitude..."

"What had been established as a major commitment with widespread popular support and unique scientific promise was allowed to tremble and collapse. As a consequence, the credibility of our commitment to any outer planet exploration is brought into question."

And it is the outer planets that provide "our best opportunity for selective competition, as well as the greatest potential

for discovery," emphasized Dr. Murray, who has been a member of the U. S. imaging teams on all the U. S. missions to Mars. "The recent launch of Pioneer F is an important first step towards understanding the unique physical environment surrounding Jupiter."

Murray cited the projected 1973 Mariner flyby of Venus and Mercury as exploiting "our remote sensing capabilities most effectively... the prospects for exciting discovery here are as high as any I know."

He said there is a need for Congress to urge the National Aeronautics and Space Administration to commit itself not only to a Mariner Jupiter-Saturn mission in 1977 but also to advanced development of selective subsystems for a Jupiter-Uranus-Neptune mission in 1979.

"If we open the way towards the Jupiter-Saturn '77 mission and a potential Jupiter-Uranus-Neptune '79 mission, we have some hope of finding a back door approach to achieve what the Grand Tour was really intended to achieve through the front door," he said.

Pointing out that space exploration already is having a beneficial impact on American life, Murray cited communications satellites, the miniaturization of electronic devices, and the systems approach to tackling complex problems as examples.

Another major benefit, he added, is the satisfying of man's desire to better understand the solar system, which he now

recognizes as part of his environment.

"Remote terrestrial environments, once the concern mainly of 'ivory tower' scholars, now have become of practical importance to their grandchildren," the Caltech scientist pointed out. "Can't we now spare a tiny fraction of our national energies in exploration and scientific study of the remote and still undisturbed environments of our solar system?"

"We must not lose sight of the historic opportunity available to us in planetary exploration. We must not let the disheartening problems of men so erode our optimism, vision and curiosity that we fail to write our exciting chapters in the history of Man. When they are written, who knows what future benefits to mankind they will describe?"

Ramo Events

Continued From Page One
health of its inhabitants. The lecture begins at 8:30, and admission is free.

One Man — One Whale

Next Thursday, Jack Aranson will give his incredible one man performance of *Moby Dick* in Ramo Auditorium. In this play he portrays 12 characters in 16 scenes, and brings to life the captain and crew of the doomed Pequod in a powerful tour de force.

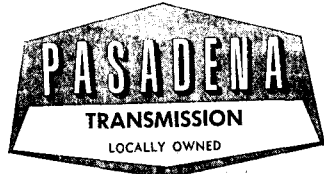
Performances are Thursday, Friday, and Saturday at 8:30 p.m. with a matinee Saturday at 2:30. For ticket information call 793-7043.

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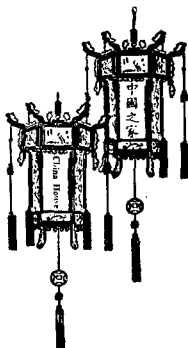
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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
MARCH 26	27	28	29	30	31	APRIL 1
		Done Tuesday After Lunch: The Cosmic Time of the Week		BECKMAN AUDITORIUM 8:30 p.m. AMPHITRYON, Dr. Mandel's translation of one of Molière's co- medies. \$3; students \$2, Teachers \$1. First day of Passover	Second day of Passover	BECKMAN AUDITORIUM 8:30 p.m. THE YOUNG AMERICANS, an infec- tiously joyful group of sing- er-performers. \$5.50-4.50- 3.50; Teachers \$2.
APRIL 2	3	4	5	6	7	8
	BECKMAN AUDITORIUM 8:30 p.m. Caltech Lecture Series: Matthew S. Messel- son, Ph.D., professor of bio- logy, Harvard University, on The Non-Military Effects of Herbicides in Vietnam. Free.			RAMO AUDITORIUM, 8:30 p.m. plus additional matinee at 2:30 p.m. Saturday. JACK ARANSON in a dramatic presen- tation of Moby Dick by Herman Melville. \$4.50-3.50-2.50, matinee \$3.50-2.50-1.50; Teachers \$1, any performance. Last day of Passover	BECKMAN AUDITORIUM 8:30 p.m. Senator ALAN CRANSTON "Planned Parenthood." Free.	
APRIL 9	10	11	12	13	14	15
DABNEY LOUNGE, 8:15 p.m., Chamber Music series: Works for percussion and electronic synthesizer. Free.			BECKMAN AUDITORIUM 8:30 p.m., OLIVIER MES- SIAEN and YVONNE LORIOD, in works for two pianos by Messiaen. \$4.50- 3.50-2.50, Teachers \$1.	RAMO AUDITORIUM, 7 and 9 p.m., AKROPOLIS: filmed by Jerzy Grotowsky and the Polish Laboratory Theatre. \$2.50, students \$2, Teachers \$1.	BECKMAN AUDITORIUM 8:30 p.m. Armchair Adven- tures: Russia with Dick Reddy. Few tickets remain at \$2.50. ADD DAY	BECKMAN AUDITORIUM 8:30 p.m. WORLD'S GREATEST JAZZ BAND. \$6-5-4, Teachers \$2.50. Examinations for the removal of conditionals and incompletes.
APRIL 16	17	18	19	20	21	22
BECKMAN AUDITORIUM 3:30 p.m. Coleman Cham- ber Music Series: Music from Marlboro: Beethoven, Haydn, Webern, Dvorak. \$5-4-3-2.50, students \$1 off.	BECKMAN AUDITORIUM 8:30 p.m. Caltech Lecture Series: Frank Capra, Mem- ber, Visiting Committee of the Division of Humanities and Social Sciences, on A Caltech Alumnus in the Arts. Free.		BECKMAN AUDITORIUM 8:30 p.m., Encounters: LEON KIRCHNER conducts his new work for voice and chamber ensemble and Third String Quartet. \$3.50, students \$2, Teachers \$1.	The CALIFORNIA Tech Take out a classified ad for fast results!	Today has been cancelled due to lack of interest	BECKMAN AUDITORIUM, 11 a.m. and 2 p.m., Children's Series: "Beauty and the Lonely Beast," a musical play for children. \$1.25, adults \$1.75. 8 p.m. Homage to Frank Capra: "Long Pants" with Henry Langdon and "You Can't Take it With You." A Cinematech and FCOP event.
APRIL 23	24	25	26	27	28	29
BECKMAN AUDITORIUM 3:30 p.m., Coleman Chamber Music Series: New York Chamber Solo- ists perform solos and duets by Monteverdi, Schubert and Schu- mann, and Cantata by Handel. \$5, students \$3, Teachers 50 free and 50 \$1 seats.	Midterm Week... Grindge!		BECKMAN AUDITORIUM 8:30 p.m. PACIFIC OAKS COLLEGE presents its an- nual (fifth) Evangeline Bur- gess Memorial Lecture. Free.	The CALIFORNIA Tech wants YOU as staff	BECKMAN AUDITORIUM 8:30 p.m. Javier de Leon's FIESTA MEXICANA. \$6-5- 4, Teachers \$2.50.	
APRIL 30	MAY 1	2	3	4	5	6
RAMO AUDITORIUM, 2 p.m. and 7 p.m., Sixth Tour- nee of Animation: nearly two dozen films by artists from a dozen countries. \$2.50, students \$2, Teachers \$1.	BECKMAN AUDITORIUM 8:30 p.m. Caltech Lecture Series: Nicholas W. Tschoegl Ph.D., Professor of Chemical Engineering, Caltech, speak- ing on Atlantis. Free. Mid-Term Deficiency Notices Due - 9:00 a.m.	RAMO AUDITORIUM 8 p.m. Robert Snyder "Masters and Mas- terworks" Film Series: THE WORLD OF BUCKMINSTER FULLER. \$2.50, students \$2, Teachers \$1; Series: \$8, students \$7, Teachers \$4. Lag B'Omer		The CALIFORNIA Tech get a subscription for your parents!	DROP DAY?	BECKMAN AUDITORIUM 8:30 p.m. THE CALTECH BAND Annual Concert. Free.
MAY 7	8	9	10	11	12	13
DABNEY LOUNGE, 8:15 p.m., Concert VII: Roger Bobo, Ralph Grierson, and Group II performing works by Gaillard, Dahl, Hinde- mith, Kraft, Tacket. Free.		RAMO AUDITORIUM, 8 p.m. "Masters and Masterworks": THE TITAN: STORY OF MICHELAN- GELO. \$2.50, students \$2, Teachers \$1.		The CALIFORNIA Tech is possibly the world's best newspaper.	BECKMAN AUDITORIUM 8:30 p.m. The CALTECH GLEE CLUB Annual Home Concerts. \$2.50 GA, \$2 CIT Personnel, \$1 students, ASCIT members free.	
MAY 14	15	16	17	18	19	20
	BECKMAN AUDITORIUM 8:30 p.m. Caltech Lecture Series: Charles B. Archambeau, Ph.D., Professor of Geophysics, Caltech, on Sea Floor Spreading and Con- tinental Drift: Manifestations on Planetary Evolution. Free. Preregistration for first term, all week.					BECKMAN AUDITORIUM 11 a.m. and 2 p.m. Child- ren's Series: World as seen by SAM HINTON, folk singer. \$1.25, adults \$1.75. RAMO AUDITORIUM 8:30 p.m. H.M.S. Pinafore. ASCIT Musical. Free.
MAY 21	22	23	24	25	26	27
BECKMAN AUDITORIUM 7:30 p.m., Cantors Concert. DABNEY LOUNGE, 8:15 p.m., Chamber Music Concert VIII. Cal Arts Woodwind Quartet per- forming Telemann, Beethoven, Davidovsky, Berio, Miller, and Carter. Free.			RAMO AUDITORIUM, 8 p.m., "Masters and Masterworks" Films: PABLO CASALS * VIVALDI'S VENICE * IGOR STRAVINSKY. \$2.50, students \$2, Teachers \$1.	The CALIFORNIA Tech typesetting service for snowy term papers, etc.		
MAY 28	29	30	31	JUNE 1	2	3
			RAMO AUDITORIUM, 8 p.m., "Masters and Masterworks": THE HENRY MILLER ODYSSEY; homage to his 80th+ birthday. \$2.50, students \$2, Teachers \$1.			
JUNE 4	5	6	7	8	9	10
	Wagner Festival 7:00 a.m. 120 dB	Blark! It's Tuesday After Lunch Again		The CALIFORNIA Tech YOU LOSE! no issue today		



Baseball Team Bows to L.A. Baptist College, 8-5

by Gavin Claypool

Costly errors by the Beavers and sparkling double plays by their opponents were the big factors as Caltech lost to the L.A. Baptist College Mustangs yesterday, 8-5.

Wally Smanski allowed only four earned runs through 6 1/3 innings and suffered the defeat. After pitching six strong innings, he yielded a single, triple, and home run in the seventh before being relieved by John Ellis.

Down 1-0 in the bottom of the first, the Beavers cashed in on the early wildness of the Mustang pitcher and scored two runs on a single, a hit batsman, and three walks. The Mustangs tied it at 2-2 with a run in the fourth. In the last half of that inning, Al Stemple started it off with a walk. Steve Schnetzer followed with a single, and Brian Luke walked to fill the bases. Bob Pleva hit back to the box, and the Mustangs forced Stemple at home and doubled up the batter at first. Ellis and Phil Gschwend then singled to drive in a run each, and the Beavers gained a 4-2 advantage.

L.A.B.C. evened the score again in the sixth, and went ahead in the seventh for good. Each team scored a run in the eighth, in which a Beaver rally was snuffed short by the Mustangs' third DP.

George's Brother

Leading the Mustangs were centerfielder Rick Gamble, who scored three runs, stole two bases, and hit a long drive into the left field corner for a triple, and first baseman Bowles, who had four hits, including a triple. Cleanup batter and third baseman Souza capped the Mustang rally in the seventh with a home run to left.

The Beavers looked much better than they did before spring break, both defensively and offensively. The second base position remains a problem, as Coach Preisler continues to use various men at that spot. Now, the Beavers have a shot at revenge of a 20-0 rout dealt to them by Occidental, as they faced the Tigers in a double-header this Saturday on the varsity diamond. First game begins at noon.

Levin Memorial Sports Menu

1:00 p.m.	Golf	Friday, March 31 Occidental	Home
12:01 p.m.	Baseball	Saturday, April 1 Occidental (2)	Home
1:00 p.m.	Track	UC San Diego	Away
12:30 p.m.	Golf	Monday, April 3 Redlands	Home
3:00 p.m.	Baseball	Tuesday, April 4 Whittier	Away
3:00 p.m.	Varsity Tennis	Claremont-Harvey Mudd	Home
3:00 p.m.	JV Tennis	Claremont-Harvey Mudd	Away
12:01 p.m.	Baseball	Saturday, April 8 Whittier (2)	Home
1:30 p.m.	Varsity Tennis	La Verne	Away
1:30 p.m.	Track	Pasadena College	Home

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Golf Team Finds Opponents Rough

Caltech's golf team lost two conference matches to herald the beginning of third term, falling to Occidental 48-6 and Whittier 40-14.

Jim Simmons was Tech's best performer, gaining all six points against Oxy on Monday, and another four Tuesday vs. Whittier. The scoring system, which involves a variety of categories, will (hopefully) be gone into more thoroughly in next week's *Tech*.

Right now, the team suffers from an acute lack of depth which Vitamin C won't help. So far this year, the team has played matches with squads varying from three to six men. Since six men are needed for each match, it obviously hurts the team's chances for victory. So, if you know the difference between a nine-iron and two-wood, come on out!



Tech About Town

Continued From Page Four

On the club scene, the ICE HOUSE here in Pasadena features the Dillard's this week (see review somewhere nearby).

TROUBADOUR features Don McLean until next Sunday, followed by John Kay.

The WHISKY has Tony Joe White and NRBQ until the 2nd.

PALOMINO, the western club on Lankershim near Hollywood has the Everly Brothers on the weekend of the 13th.

That's about all, I guess.

—Smithnik

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Fleming, Page, Ruddock Claim Interhouse Volleyball Championship

by Gavin Claypool

Ruddock House won the Interhouse Volleyball finale by upsetting previously unbeaten Fleming, thus throwing the championship into a three-way split.

The Rudds' win allowed them to retain second place in the overall standings, which would have fallen to the Flems otherwise.

Page House, the other first place finisher, was the real winner — their position relative to the Rudds and Flems did not change, and now only basketball and football remain. All three teams had 5-1 records.

Credit Due

With their best performance since 1969, the Darbs had a 3-3 season and finished fourth. They

also climbed out of the cellar for the first time this year and lead Blacker by three points.

Ricketts solidified their fourth place position in Interhouse by finishing fifth. Blacker placed sixth, but was passed from behind, as noted earlier.

The Lloydies went hungry with a zilch-6 season, quite a drop from last year's third place finish. They also mathematically eliminated themselves from the championship, while they currently reside in fifth.

STANDINGS

Fleming	5	1	.833
Page	5	1	.833
Ruddock	5	1	.833
Dabney	3	3	.500
Ricketts	2	4	.333
Blacker	1	5	.167
Lloyd	0	6	.000

Interhouse Competition

Page	242.5
Ruddock	220.0
Fleming	208.5
Ricketts	171.0
Lloyd	121.5
Dabney	75.5
Blacker	72.5

Classified Ads

LOST & FOUND

Lost: Physics 2 notes. In a green Acco Press notebook with colored tabs on the side, one inch thick. See Dave Peisner in Page if you have seen them. A \$5.00 reward is offered.

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