

New Divorce Laws, Outside World Topics For YMCA Programs

by Emden Gansner
Next week the Caltech YMCA is sponsoring two informative and relevant talks and question sessions. One will concern the new divorce laws, and the other, given by an ex-Techer, will be about what a Tech graduate can do once he enters into the real world.

Judge Lester Olson, continuing the Y's "Crisis in Our Legal System" program, will give an Olive Walk talk next Wednesday at 11:45. His talk will concern the development, inner workings and effects of the newly legislated divorce laws.

A Stanford graduate, Judge Olson began practicing law in 1954. He was appointed to the bench in 1965. During 1969, he was deeply involved in the progress of the Family Law Act through the legislature. And since January, 1970, he has been the Supervising Judge of the Family Law Department.

Then, next Thursday, Walter Baer from Laird Systems, Inc., will participate in a day-long program as part of the Y's "The Future of a Techer" series. In keeping with the purpose of the series, giving undergrads an opportunity to talk with Tech alumni from various vocational fields, Baer, a Tech graduate, will give a drop-in seminar in Winnett Lounge from 4 to 6, followed by dinner in a student house and an informal discussion until about 8:30.

After graduating from Tech, Baer received his MS and PhD degrees from the University of Wisconsin. He is a member of the Computer Science and Engineering Board of the National Academy of Science. He also was a staff member of the President's Science Advisory Board and an assistant to the Vice President.

GUITAR MASS - The Caltech Newman Club will hold a guitar Mass in the Y Lounge (upstairs, Winnett) this Sunday, April 26, at 7:00 p.m. All are invited.



POPULATION POLLUTION? This was the scene last Saturday morning as 1000 high school students invaded Caltech for Students Day. —photo by Fish

Moon Rocks For Sale

Students Have Their Day

by Elliot Tarabour
Last Saturday was STUDENT'S DAY, another brainchild of our public relations department.

The day began with the heirarchy of students being dragged out of bed, the head committee waking the head guides in each house who in turn waked the guides from their respected houses. I, being a guide myself, witnessed this since I had been awake all night in excited anticipation of the day's events.

Slowly the guides started appearing, looking curiously out of place in their coats and ties. They marched slowly to Chandler for a nourishing breakfast, all carrying the little signs that indicated their groups, they were going to lead. I had a particularly strong attachment to my sign, good old 6-E, (I'm sorry I haven't returned it yet, Steve, but I will soon).

Guides Invade Millikan

About 9:00 a.m. the army of guides started marching down the Olive Walk toward Millikan. Conversation was limited to how much the guides disliked having their Saturday morning sleep robbed from them and how they would know better next year. It sounded remarkably similar to the kind of thing you hear at an 8:00 physics lab.

Upon arriving at Millikan the

guides found the scene apparently hopelessly confused. However remarkably quickly the whole system began to reverse entropy and soon enough we were on our way. The committee in charge of setting up the exhibits cleverly placed the demonstrations on the uppermost floors of buildings. There was even a rumor that one of the exhibits

Continued on Page Six

Social Broskow

Be Polled on Lost Weekend

by Craig Broskow
ASCIT Social Chairman

As you may have noticed, I recently distributed a poll concerning attendance at the Lost Week-End. If you plan to attend the Lost Week-End this year, please indicate so on one of the polls (soon!), and stick it in the out-going mailbox in your house. I have additional forms in my room, 201 Page. There is no obligation, but I need some sort of indication concerning the number of people planning to attend.

The Executive Social Committee is now in the process of formation, and should have been voted on last night at the B.O.D. meeting. This committee has a certain large (but finite) amount of funds, for dis-

Low Pollution Car Project Progressing Despite Strike

Low Pollution Car Project leader Mike Lineberry announced that the American Motors Hornet is expected to arrive as soon as the wildcat truckers' strike is settled. The car, which will be converted to use compressed natural gas as a fuel for the upcoming Urban Car Competition, has been delayed almost two weeks by the truckers' walkout.

While waiting for the car to arrive, project members have started a drive for additional people to help with the formidable task of having the car ready for the September competition. While most entries, notably MIT's, will be the result of long term efforts, Caltech is relying on a crash program which is only now moving into the actual hardware. To give themselves a margin for error, the Caltech group will also be racing one of the Pacific Lighting Company natural gas cars. While both cars will be using similar fuel systems, it is hoped that the Hornet can be further improved

using a catalytic reactor in the exhaust stream and other smog cutting devices.

Two Engines, Too

The modifications of the engine are being directed by Mahlon Easterling, a JPL engineer, and James Henry, a student. They will have a duplicate engine set-up in the Engine Laboratory in the Spaulding sub-basement. In this way, modifications can be closely tested and as significant improvements are found they will be duplicated on the engine in the car. By running laboratory engine tests and vehicle road test concurrently, it is hoped that considerable time can be saved in the development.

The money to finance the conversion, testing, and racing has come from a variety of sources including the Alumni Association and some of Caltech's trustees. Project finance director Ken Heitner reports that almost \$5,000 has been secured so far. This is enough to insure Caltech participation in the race but does not permit the full research program.

Help Wanted

Mike Lineberry asks all those interested in helping with any aspect of the project to contact him or to come to one of the Project meetings which are held each Thursday at 12:15 pm in 214 Thomas. The group will readily admit that they are off to a late start but they are convinced that Caltech knowhow will pull them through.

Inside This Week's Tech

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Tallyho!

Racing Coterie Rescues Tech's Budget?

by Alan (Ace) Lederman
Those of us in the Ricketts racing coterie planned to return to the turf this weekend, determined to win back the funds lost during our previous excursion. Modestly, we sought to earn enough to:
(1) Finance our tuition for the coming two years
(2) Establish a Willy Shoemaker named professorship in Probability
(3) Finance the Institute's \$78,000,000 construction program
(4) Rescue the California Tech from debt
(5) Provide \$0.53 bus fare back to Caltech
Previously, we had been unable to achieve even the last objective. Clearly within the Institute Catalog, the Guiding Light of our academic lives, lie the answers. We chose a system based on the Good Book. Choosing ten options, we planned our bets.

Race	Option	Number of Letters	Sum of Digits	Race	Bet	Winner	Profit
1	Applied Math	11	2	1	2	9	-\$ 2.00
2	Astronomy	9	9	2	9	9	+\$ 4.40
3	Biology	7	7	3	7	3	-\$ 2.00
4	Chemistry	8	8	4	7	3	-\$ 4.00
5	Geology	7	7	5	7	5	-\$ 8.00
6	Mathematics	11	2	6	2	5	-\$16.00
7	Physics	7	7	7	6	2	-\$32.00
8	Jet Propulsion	12	3	8	3	9	-\$64.00
9	Information Science	18	9	Total after 8 races			-\$123.40

Unfortunately, circumstances militated against our planned attendance at Hollywood Park. But had we indeed gone, it would have proved an interesting afternoon. In order to insure a profit, we would have adopted the strategy "shen we lose, we will double our bet." Extrapolating our previous luck, this would have led mathematicians among us to calculate the cost of 2**9 tickets at \$2 apiece. But do not scout the system, for consider the results:

At this point panic would certainly have developed. No Willie Shoemaker endowed professorship, no Institute construction program, no tuition payments, and we must ignominiously call back to the house for a ride home. We would certainly have abandoned our system, which called for a bet of \$128 on number 9 in the last race. Who in fact was the winner of the ninth race at Hollywood Park Saturday? Number 9, of course, returning \$601.60 on a bet of \$128.00. Seek Wisdom and Strength in the Institute Catalog, and ye shall reap your rewards.

Thorne on Our Side



Dr. Kip Thorne demonstrates the Eight-fold-way to an anxious pupil at the Ph 125 Party last Monday night at The Museum. For details see Page Five —pic by Fish

Editorial

Ecology Is as Ecology Does

"Activism," according to one very wealthy and very conservative gentleman, "is cleaning it up instead of just concluding that it's dirty." Conservatism notwithstanding, we heartily agree.

This week's Teach-In on the Environment is the beginning. The week's credo expresses the idea of constructive work: "We will not be exposing once again the evils of pollution, population and consumption —everyone already knows about these problems. . . We wish to go beyond this simple conception. . . the Teach-In will attempt to ask the question of what is wrong and how we can fix it in a larger context."

The members of the Caltech Environmental Action Council have exhibited the embryonic stages of constructive activism. They have enlisted the aid of industrialists. They have sought out others involved and invited them to share ideas. They have investigated both the present environment and the environment they would like to see.

But, an embryo is still a beginning, the idea and the basic food for sustenance. What is needed now is the maturity in followup. The Teach-In week will undoubtedly arouse a great deal of enthusiasm —for a week or two — and then subside. CEAC is going to stay in association, coordinating the efforts and serving as a springboard for the ideas and projects of many individuals. We hope that the support will not decay so fast after the spectacle ends. We need the individuals to get involved.

We have all concluded that the world around us is dirty. Now let us get together to clean it up.

—Ira D. Moskatel
Philip M. Neches
Paul A. Levin

Throop Beat

Caltech - Home of Next Year's Rose Queen?

by Etaoin Schroedlu

Independent Study lives! (In the minds of its supporters, at least.) Of course, the idea is not new; I remember presenting a facsimile of the concurrent plan to the faculty Academic Policies Committee over a year ago. However, slight age does no harm; the basic idea is a good one, and I hope that the current BOD will follow up on the thoughts expressed in Bob Fisher's *Tech* article last week. Of course, the stumbling block is faculty interest and time, for a program which would require a fair bit of both. Presumably, there are some interested faculty who would help out; this number is probably the upper limit to participation levels of students. One idea is that the final proposal make arrangements that any faculty member interested in devoting time to several students' Independent Study programs be relieved of his regular course load without penalty.

Rose Bowl

Next year, as some have noted, Caltech will be eligible to enter an official contestant for Rose Bowl Queen. (And Camellia Bowl Queen, and Sport Magazine Campus Queen.) Not only that, but the Rose Bowl authorities have invited Caltech to take its place on the committee which chooses the Rose Bowl Queen.

As of the moment, there will exist a Halfway House next year, partially to take up some of the overcrowding in the Houses and partially to experiment in new ways of living. Proposals for living schemes are being accepted right now by Lyman Bonner; see him for further details or to submit your own pet plan.

So They Tell Me Dept.

The people studying the parking situation at Tech had a meeting and officially requested more data from Physical Plant concerning traffic stocks and flows around campus. At least one scheme is being worked out by students; see Jim Henry for details. . . . The Moon Rocks display in Culbertson is very impressively done. . . . Do something for Earth Week. . . . I blew one last week when I assumed that the Coffeehouse Managers would agree that a Coffeehouse-in-Winnett would be absurd; it turns out that they aren't convinced yet. I was also accused of falsely implying that ASCIT has no plans and is becoming committed to the plan discussed. Come on, now, did I say that? . . . In lieu of a Senior Class Gift (no dues=no gift) why don't we try to get the Business Services Building officially christened Parkinson? . . . The Graduation cap-and-gown information mailout was a bit tardy this year. Tsk, tsk.

EDITORIAL POLICY

The opinions expressed herein are solely those of the writers under whose by-line they appear. Only the upper left hand portion of this page represents the editorial opinion of the CALIFORNIA TECH and the undersigned writers. All letters received by 6:00 p.m. Monday evening will be considered for publication on a FIRST COME, FIRST SERVED basis; the CALIFORNIA TECH reserves the right to cut letters to a maximum length of 300 words if the context of the letter can be preserved. We disclaim all responsibility for errors in editing, printing, or timing of the letters received and/or printed. Letters received from off-campus as well as all stories will not be returned.

—The Editors

Leonidas Guibas

by Leonidas Guibas
ASCIT Vice-President

It has been decided that for next fall, instead of the traditional freshman camp, an orientation program will be provided for here on campus. There has been considerable discontent in the past both from students and faculty about the way freshman orientation was handled. Freshmen in particular often expressed the opinion that it was very difficult for them to meaningfully discuss matters concerning Caltech as they lacked a common base of experience about the Institute. In addition several upperclassmen and faculty felt that the speeches at camp were only another effort to force a desirable Caltech image upon the freshman class. For these reasons the orientation program next fall will be an experiment to see if we can provide our freshmen with a better introduction to Caltech, one in which they would be participants and not only spectators. The fact that the program will be held on campus means that much greater resources will be available towards the above ends. In order to be a success, however, the orientation period will have to be well planned. As this is something essentially new, a great deal of imagination can be constructively used in its design. A committee has been formed, composed of J. Beck, B. Bennett, L. Bonner, W. Emery, L. Guibas, W. Hershey, I. Hunter, R. Owen, R. Huttenback, A. Seita, Don Smith, J. Templeton and D. Wood (Chairman), to discuss the many questions that arise. Although the above Orientation Committee is working in conjunction with the I.H.C., suggestions from any student are welcome. Please feel free to talk to any committee-member about ideas you may have.

Before any such program can be designed, we had better decide on what objectives we would like it to accomplish. First of all new students should learn about some aspects of life at Caltech. A good introduction to the physical geo-

graphy of the campus and to the overall administrative organization of the Institute ought to be provided. Discussion of the Honor System is very essential. Information on athletics and extracurricular activities should also be made available. It is not yet clear how these are to be done. Most likely the basic unit will again be the freshmen-upperclass counselor-faculty discussion group. It has been suggested that as far as possible the faculty members of the group should include the freshmen advisors of its members. In the past speeches before the whole class were used to catalyze discussions of the above topics. The general feeling now seems to be that formal speeches ought to be kept to a bare minimum. The faculty and upper-class councilors should take most of the responsibility for conveying this information. Some short welcoming remarks by the Institute and Student Body Presidents are clearly desirable. The speech about the Honor System is a debatable point. For most other traditional speeches it seems that the discussion groups can quite successfully take over their function.

Simultaneously the above take care, at least in part, of another major goal of orientation, namely to get new students to meet Caltech people (faculty and students) as well as each other. How to get freshmen to meet faculty outside of their group still remains a problem, as most of the informal games and sports of freshman camp are likely to be lost. About the opportunities to meet upper classmen and rotation I will talk more later. Several other ideas have been proposed. A tour designed to acquaint freshmen with the LA area might be useful. Also various talks might be informally available during this period. Faculty could talk about their research. I. Hunter might hold a discussion session about the psychological problems that new Caltech students are likely to face. Also the idea of a follow-up camp, probably the weekend after mid-

terms, has been brought forward. It sounds an excellent idea to try to get again the freshman class together and discuss their common experiences at Caltech. Funds, however, may not be available for this. Anyway most everything is still tentative and only two points are fixed: (1) orientation will start Thursday, Sept. 24, right after freshman registration, and (2) the Browns' are having a reception and Pizza party for the new students from 3 to 6 p.m. on Friday, Sept. 25 at the pool.

Another issue that this set-up raises is the possibility of having rotation (selection of freshmen by the Houses) concurrently with the orientation period. This seems to have solid advantages if a good percentage of upperclassmen can be persuaded to come back a few days earlier. The question of whether they could be given free room and board is still open. If this could happen it would certainly alleviate the combined pressure of the first

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The CALIFORNIA TECH

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FRANKLY SPEAKING

by Phil Frank



'HAVE A NICE VACATION IN THE U.S.
PEDRO JUST DON'T DRINK THE
WATER!'

RF's Rampant

By David Miller

Last week, our heroes wrote a bestseller to raise funds, bilked the public to raise more of the same, flooded the Russian delegation to the UN with cockroaches, and kidnapped King Constantine. Now the fun REALLY begins!

It should be blatantly obvious by now that a night soon came in Greece when numerous urgent messages did not reach the colonels by telephone, when radio-controlled tanks rolled to certain strategic points, and all radio stations went off the air until about 5 in the morning, when one announced, "This is King Constantine. I rejoice to announce that I have resumed control of the government of Greece." He said a number of other things; it really was a fine speech, but it did lack the feeling he put

into his words an hour later when the drug wore off and he said "You WHAT? I SAID WHAT??!" Duane Mork, bearer of the glad tidings, was saved by a thunderous roar from outside. Aghast, King Constantine peeked out the door at the crowd, then at Mork. With a look of soul-wrenching agony, he lifted his arms, then set his face to "cheerful," changed it to "radiant," and stepped out onto the balcony.

This happy situation lasted until about 10 that morning. The American networks found it difficult to portray all 137 Techers on the small screen, so they picked a few of them and tried to say some of the accustomed things about "the hope of the future," but most of the commentators seemed rather appalled by the whole thing. The instant analysis offered seemed pallid compared to comments like, "the king probably is sort of annoyed with us,

we kept him in a trunk for two weeks" and "student activism comes to Caltech! Students of the world! Why throw a dean out the window or burn a bank when you can throw generals and burn tanks? I challenge MIT to beat us to South Africa!" What can you say to someone who answers a question about Greek art by replying that he knows somebody at JPL who is making a Lucite sculpture of Richard Nixon "so we'll know what to expect when he finally makes himself crystal clear."

Walter Frostbite and his camera were on the acropolis when the helicopter almost landed on Mork and Aristotle Onassis stepped out and said in a tone of controlled irritation, "Will you get out of my country and stop bothering my colonels before they start asking for hazardous job pay?" and "Hmmm," said Mork, "I do believe that you have just answered a number of questions we had."

"Well, what did you expect, a military dictatorship? Come on, now, Olympia Airlines has a special flight, today only, Athens to Los Angeles, 100% student discount,

you can't afford to miss such a bargain."

"We can if we want to," somebody said. "Besides, you have a beautiful country here," added one who had seen little of its scenery except for the girls.

"Get out of Greece or you're all expelled from Cal Tech!" Aristotle suddenly screamed.

"Impossible." "That's one place where..."

"Where I bought Beckman Instruments this morning."

"So you're still not a trustee."

"But Arnold Beckman now does what I say, and therefore..."

"Therefore," Mork interrupted, "we all miss Sunday brunch. Consider, kind Mr. Onassis, 'hash brown potatoes' that are bleached, tenderized cardboard..."

"I'll finance any kind of brunch you want."

"Do you think minds like ours are influenced by our stomachs?" Nasty laugh from Mork.

Aristotle was turning purple, but he said with extreme calmness, "If you people are not out of Greece by noon today, I will hire an army

and stomp you."

"Hmm." Mork grinned at him. "If we go we'll have averted a war, which should be an achievement worthy of a Nobel Peace Prize... and the government of Sweden is not in a financial crisis at the moment, but their situation is not exactly..."

No Techers can resist a Nobel Prize, and buying Sweden was even less difficult than we thought. And after all that we didn't have to leave by noon. In fact, Aristotle spent a long time talking to one of the Techers from Greece, a character named Parodies Nicotines, and they got Flowers to explain his chemicals.

Power and subtlety—our subtlety and Aristotle's power—can work wonders, which is how the age-old dream of one world government was fulfilled. And all of us stood up on the platform when Aristotle I said, "I'd like to thank some of the people who made this day possible," at the ceremonies which marked the official beginning of Washington's present era as capital of the Western Hemisphere of Greater Onassia.

And the new government has been generous in giving the taxpayers' money to Caltech which is how we got the Maria Callas Wind Tunnel.



Wait until the CIA hears of this!

ASCIT of Guibas

Continued from Page Two

week of classes and rotation. It would also reduce the time of uncertainty and lack of permanent living quarters, which new students find particularly disturbing. On the other hand, due to the shorter time available, freshmen would be able to spend only half a day at each House. Whether this is sufficient time for a House to get to know a freshman and vice-versa, or whether a significant number of upperclassmen would return early are big questions which the I.H.C. is currently debating. Special consideration should also be given to the incoming girls and to those freshmen that might have to stay off-campus (if the figures of maximal desirable occupancy given by the houses are adhered to). Should they also participate in rotation, if the latter is somehow combined with orientation? The House Presidents should be taking these issues around the Houses.

Overall this is a summary of what is happening. If you would desire more information please contact any committee member or ask Ned Hale for a copy of the committee's minutes. Let us hope that we will be more successful next fall introducing our freshmen to Caltech than we have been in the past.

Please help.

All of us hate to see empty cans and bottles lousing up what's left of a beautiful country.

It's too bad packaging technology today isn't as exotic and convenient as the gimmicks and gadgets on the TV thrill shows; like you, we'd like nothing better than for every empty can and bottle to self-destruct. Someday, soon, things *will* be different, though...because we and a lot of other concerned people are all working on the problem in earnest.

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The FHRRT Contributes To Pollution

Ten Best Lists

Since every one else is making lists, the Fleming House Record Review Board (I'll give it a 65, cause you can dance to it, even if I can understand the words) has decided to print out each reviewer's ten all time favorite cuts. We do this so you can understand our prejudices for future reviews (as if anyone reads this malarkey) and act accordingly.

The criteria we used were: 1. It had to be rock. 2. Instrumentals were frowned upon. 3. The cut, if from an album, had to make the whole album worth buying, but could not be part of an album that was just terrible otherwise. 4. You had to think about it.

No order indicated.

Strelitz

1. "Waterloo Sunset"—the Kinks—Something Else—Reprise
2. "Visions of Joahanna"—Dylan—Blonde on Blone—Columbia
3. "I'll Keep It With Mine"—Fairport Convention—A&M (album title is group name—also check out Dylan's version on GWW Birch Society Blues, boot-leg)
4. "Go Now"—Moody Blues—Moody Blues No. 1—London
5. "She's Not There"—Zombies—Parrot
6. "With a Little Help From My Friends"—Joe Cocker—A&M
7. "A Salty Dog"—Procol Harum—A&M
8. "Help Me"—Ten Years After—Deram
9. "New York Mining Disaster—1941"—Bee Gees—Bee Gees 1—ATCO
10. "Crying To Be Heard"—Traffic—United Artists

John Jacky

1. "Gimme Shelter"—Rolling Stones, Let It Bleed—London
2. "St. Stephen/ The Eleven"—Grateful Dead—Live Dead—Warners
3. "Mona/Maiden of the Cancer Moon"—Quicksilver Messenger Service—Happy Trails—Capital
4. "If You Feel"—Jefferson Airplane, Crown of Creation—RCA
5. "Just Like Tom Thumb's Blues"—Bobby Dylan, Highway 61 Revisited—Columbia
6. "Wheel's On Fire"—The Band, Music From Big Pink—Capital
7. "The Trees They Do Grow High"—Pentangle, Sweet Child—Reprise
8. "Questions"—Buffalo Springfield, Last Time Around—ATC
9. "Theme From Burnt Weeny Sandwich"—Mothers, Burnt Weeny Sandwich
10. "In the Cold Wind and Rain"—Rod Stewart—Mercury

Bob Allen

1. "Dazed and Confused"—Led Zeppelin, Led Zeppelin
2. "Pinball Wizard"—Who, Tommy—Decca
3. "No Face, No Name"—Traffic, Mr. Fantasy—U.A.
4. "I Want You"—Beatles, Abbey Road—Apple
5. "Honky Tonk Women"—Stones, Through the Past, Darkly
6. "Twelve Thirty"—Mamas & Papas, Papas and Mamas
7. "Gold and Silver"—Quicksilver, Quicksilver—Cap
8. "Light My Fire"—Doors, Doors—Elektra
9. "Colours"—Donovan, Greatest Hits—Epic
10. "Turn Out The Lights"—Airplane, Pointed Little Head

Policy Statement

I realize that I have too often been on my soap box, but there are times when even I am moved to speak out. First, I feel it necessary that I reveal the reason for this new policy of reviewing: to acquaint as many people with as much material as possible, to broaden horizons—horizons of rock now, but maybe later for jazz.

What good does it do to moon over the new Beatles record, or Simon and Garfunkle, when you have never heard; or never heard of, and probably never will, someone who is just as good, and perhaps more deserving of attention. BA's column was right last week—you may like the Who now, but did you ever hear of the before? Do you know what you missed? I f you don't care, then don't bother to read on, except to help you pass the time.

The point is, there is an awful lot you may never have heard, because it is just not played, and we are going to try and tell you some things to listen to. We will winnow the chaff away, but we are not doing this for ourselves. You get tired of walking down the campus and hearing the same three albums all the time. You get tired of being the only kid on your block to ever hear of someone who is every bit as good as the others. If you listen to Rany Newman will you ever go back to Simon and Garfunkle?—if you listen to Miles Davis, will Sly and the Family Stone ever satisfy?

Does anybody out there listen? Stand number two: I spent my sophomore year here with a sex-substitute in "Janis Joplin in Concert (with Big Brother)." It worked very well. Last week however, Saturday night to be exact, I saw a performer than can wipe Janis off the map: Maggie Bell of Stone the Crows. She has more power in her voice and more sex in her dance, and, as an afterthought, the group is immeasurably better. If you get a chance, see them live—the album (on Polydor) is good, but for your sake, see them live.

—Richard Strelitz
—David Dobrin

The Cultured Ear

RACHMANINOFF'S GREATEST HITS, Leonard Bernstein, New York Philharmonic; Eugene Ormandy, Philadelphia Orchestra; Philippe Entremont; Gary Graffman; Columbia MS 7508.

Rachmaninoff's Greatest Hits is another in Columbia Records' series of "Such-and-so's Greatest Hits" (The series is now fifteen albums strong). I should first state that I am no great fan of Rachmaninoff; if you enjoy him, then ignore this review. Given my personal bias, I don't think that this record has much to recommend it in the way of music (the selections were "Concerto No. 2 in C Minor for piano and orchestra," "Vocalise," "Prelude in G Minor," "Prelude in G-Sharp Minor," "Prelude in C-Sharp Minor," and 18th Variation from "Rhapsody on a Theme of Paganini"). Bernstein, Ormandy, and their respective orchestras were, as is usually the case, very good. The overall quality was above average. But I still didn't like it.

Please be your own judge on this one; if you enjoy Rachmaninoff, then you will probably like this record; otherwise, forget it.

—Bruce Britton

Two Sides of Terry Reid

Terry Reid is perhaps the most enigmatic performer I have yet run across. Wherever he goes, he is able to collect good notices; in addition, all the top rock stars like to the extent of personally requesting his presence on their tours. He himself is a fine performer, as is his group, a trio in all. However, unlike other three-men aggregates, he is not oblivious to dynamics and structures. Like so many other Britons, he is classed as a blues performer, yet there is only an implicit understanding of this rather than the purism that plagues so many other bands. His blues is more a personal interpretation within the idiom instead of copying of older styles. He is a true blues performer working with the mechanics of rock. His voice is capable of several tones and a clarity that is rarely seen in rock, in addition to an ability to sing scat jazz vocals. Perhaps the most outstanding feature though is the power of his voice and the precision with which his group underscores his vocals.

Then why is he still unknown?

For one, touring with the Stones and Cream does not ensure that anyone will listen to you—they're there for one reason. For another, his albums are the most poorly produced discs I have ever heard on a major label. In parts they sound as if they were recorded in the next room, through a single mike. But not even this execrable treatment can prevent the excitement from shining through the vinyl. This is especially true of his second album, *Terry Reid* (Epic BN-26477), in the cuts written by other composers. In Donovan's "Superlungs" and in Jerry Ragavoy's "Stay With Me" Terry demonstrates his true mastery and power, his ability to arrange a song, and his good sense of feeling in how to sing each line. All of side two is like an uncut gem, rough and coarse, but valuable nonetheless. He shows that he is capable of a variety of emotions and moods even within the same line, and thus can refrain from sounding all the same. The whole album is a lesson in the value of sparse arrangements, of utilizing what one has not to overwhelm but to impress. The first album is not quite as good, but still worth listening to, if not having.

As I have ever so subtly intimated, in my opinion, Terry Reid is a demon of a performer. He can sing, write, play, and perform well, plus he is handsome and sexy and has a group that can understand and aid him. One day, a good producer is going to record him, and if it took Van Morrison three albums to have his genius recognized, there is hope yet for Terry Reid. He has what it takes—and it just takes one lesson.

—Richard Strelitz

Other Side of Terry Reid

Terry Reid is good. His group is another in the British hard blues genre and is definitely better than most of the wind-up bands which abound in this category, and although I don't usually listen for vocalists, I found his singing interesting. His voice sounds unusual and he doesn't have to shout in order to give a song power. This is a better than average band, yet, I can't get very enthusiastic over them. They're worth listening to, though, and maybe you can get enthusiastic.

—Jon Jacky

ECO Benefit Album

No One's Gonna Change Our World (Starline SRS 5013)

A meeting of the World Wildlife Fund was convened at Buckingham Palace on the 21st of December, 1967. It was in the nature of a "Talk-in" with the view to stimulating new ideas. Among those present were several people from the entertainment world, on whose behalf Spike Milligan suggested making a long-playing record on which the Artists, Composers, Publishers, and Recording Companies would waive all fees. This record is the result of that idea. Royalties from its sale will go towards funds dealing with rare animals in danger of extinction. This in itself makes this a unique record. I can do no more than wish it great success.

—H.R.H. The Duke of Edinburgh
Contributing to this album are a strange group of British artists: the Beatles do "Across The Universe", the Bee Gees "Marley Purt Drive", Cilla Black does "What the World Needs Now is Love", to mention the most notable. The album title comes from a line in "Across The Universe", which is one of the nicest Beatle songs I've heard. As you might suspect, though, not all the cuts are of this quality. Rolf Harris sings about the "Cuddly Old Koala", and the famous group Dave Dee, Dozy, Beaky, Mick & Tich do their big hit "Bend It". Some surprises, too: Lulu's "I'm a Tiger" isn't nearly as bad as it sounds the first fifteen seconds, and "In the Country" by Cliff Richard & the Shadows is reasonable. All things considered, I am happy to have bought the album. And you can't be any cheaper than I am. So don't be, and do.

—Bob Allen

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—Dobrin, Calif. Tech

Up, Up, and Away In My Beautiful Aero Club Cessna 150

by Bob Frensley

The Aero Association of Caltech, Inc., popularly known as the Flying Club, exists for the purpose of promoting general aviation in the Caltech community and educating its member in the operation and maintenance of aircraft. The club owns a 1965 Cessna 150, a two seat, high wing aircraft with registry number N3027J.

The club presently has 24 members, of which 2 are undergrads, 9 are grad students, and the rest are faculty, staff, and JPL employees. There are 4 student pilots, 19 private pilots, and one commercial pilot. Also, 2 members have instrument ratings, and 1 member is a flight instructor.

During the past year, the club installed new navigation and communication radio equipment and a stobe anti-collision light. The engine was replaced in February. The plane can now be used for instrument training, and the club plans to install a crash locator beacon this year.

The Flying Club welcomes new members, whether licensed pilots or student pilots. The dues are \$8.00 per month to cover fixed costs, and flight time is \$7.00 per hour, including gasoline. This is about one-half the flight cost of a rental aircraft. Part of the operation capital of the club comes from the \$100.00 member deposits that are returned on leaving the club.

So, if you would like to look down on crowded freeways, or get above the inversion layer for some fresh air, join the Flying Club.

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RIMSKY-KORSAKOV'S GREAT-EST HITS, Leonard Bernstein, New York Philharmonic; Andre Kostelanetz, Columbia Symphony; Eugene Ormandy, Philadelphia Orchestra; Columbia MS 7509.

Another in Columbia's Greatest Hits series, this record contains eight selections from Rimsky-Korsakov's opera music and symphonic suites. All are done well on this record. Extremely brief descriptions of three of the more outstanding pieces follows:

"Procession of the Nobles" is from the "Mlada' Suite" (this suite was taken from the music for the opera). It is ably interpreted here by Eugene Ormandy and the Philadelphia Orchestra.

"The Sea and Sinbad's Ship," one of two excerpts from "Scheherazade" on this record, is a picture in music. Bernstein doesn't rush through this movement; some conductors play it as fast as they can, trying to get done with it quickly. Why, I don't know; it's a beautiful piece of music, probably the best on the record.

"Canto Gitano and Fandango Asturiano" from "Capriccio Espagnol" is performed by Ormandy and the Philadelphi Orchestra. This piece is outstanding, primarily because, as Tchaikovsky put it, it "is a colossal masterpiece of instrumentation..."

Much of Rimsky-Korsakov's music is based on folk tales and legends, but even if you don't know any folk stories, you'll enjoy this record.

-Bruce Britton

Physics Phun

by Richard Blade

Monday night, April 20, the undergraduate quantum mechanics class of Kip Thorne, Richard Blace, and Cliff Will had a swinging party at the "Museum" folk dancing cafe. Musicians playing music from Turkey and a professional belly dancer were the featured entertainment, and the program included folk dancing lessons, contests with the profs, and awards. Kevin Monahan MC'd the program, Mark Noble awarded "Noble Piece Prizes", and Sandy Kovacs presented the "Front End Award" to Linda Thorne. Professor Bob Gray of the Industrial Relations Center was made "honorary quantum mechanic" by the class, and Lee Stockford accepted the award in the absence of Prof. Gray.

THE MUSEUM

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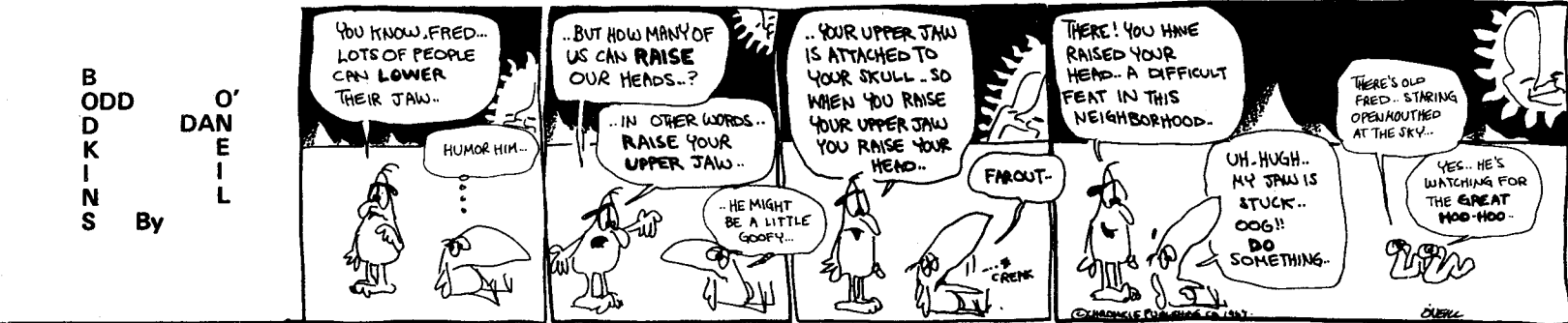
PASADENA



THE MUSEUM is an international folk dance cafe in Pasadena that encourages the pleasures of ethnic dance and music. The most esoteric requests can be filled, while the more common joys are sensitively provided for: meeting friends, playing chess or backgammon in the patio, or simply mending frayed nerve ends over a cup of coffee. The mood is casual, the people are warm and enthusiastic.

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Foxy Malarky

Crystal and Fox Showing at Taper

by Phil Neches

Fox Melarky had a vision, and that proved to be his undoing. Just get rid of his entire troupe, and start over with just himself and his wife, Crystal. In pursuit of that vision, Fox Melarky ("The Fox") managed to get rid of everything: his actors, his props, his trucks, his son, even his wife. And, of course, having disposed of everything, he had nothing.

Given such a script, one can readily predict what sort of play to expect of Brian Friel's *Crystal and Fox*. Basically a compelling drama, *Crystal and Fox* has several built-in anomalies, which when propagated throughout the play detract from its success.

The play, though obviously realistic in intent, is not quite convincing. Fox reveals the split between the euphoric and the depressive Fox too early in the

evening, and does not sufficiently emphasize the differences between those two states of the Fox's character.

The acting is good, but not inspired. Salome Jens has a most unusual voice, which fits her role quite well. Anthony Zerbe is strong, but does not quite bring out all of the contrasts in his role as the Fox. Kevin Coughlin is an intense Gabriel.

As usual, the Music Center's technical staff performed superbly. The set has just the right somber note. The lighting complements the action and the mood excellently.

In all, *Crystal and Fox* provides an enjoyable evening at the theatre, but does not match other production which the Music Center has done in the past. For the most part, the play is handled with sufficient competence that its faults appear only after careful reflection outside of the theater.

Two Westerns

by David N. Dobrin

The avowed motivation of this penurious critique is the expurgation of the sesquipedelian recollection of a prior reviewer's prolixity. In case you read a review of *Zabriskie Point* and didn't understand it, here is another try.

Zabriskie Point is Antonioni's monument to America. His first and only (I hope) film made in America seeks to express his vision of our society. His America is sharply divided. The film shows a continual battle between youth and age, the city and the desert, purity and defilement.

As seems appropriate, he chooses the form of a traditional Hollywood Western. The roles of the good guys and the bad guys fall upon the rebels who are now tearing apart college campuses and the pigs, the Enforcers of the Establishment. As in any Western, there are three gunfights with a love story shoved in between. In the first, the herokills a cop; in the second he is killed; and in the third the heroine destroys his killers.

A sub-plot involves the war between the symbols of the adversaries, the city of Los Angeles, which represents allof corrupt American society and the desert which represents the purity of youth. The two opposing sides are delineated vividly. The pivotal scene, a marvelously inventive sexual orgy at *Zabriskie Point* is beautifully photographed and strangely evocative. The prominent display of billboards in every scene shot in Los Angeles deepens the contrast of the desert with the city.

The use of billboards is typical of the entire film. Antonioni understands the impact of the two; the desert is truly beautiful, the billboards satisfyingly nauseating. Although it is very emotionally expressive; it does not show any understanding of America. Antonioni is unfair in the extreme and I don't think he knows it. The film could have been very good if Antonioni had shown any appreciation of America; instead he is superficial.

Still, *Zabriskie Point* is one of the most powerful films I have ever

seen. The explosion at the end almost makes the move worth seeing for that alone Antonioni is a genius of the directorial art. Regrettably, his genius is wasted.

by David Dobrin

With the release of *The Wild Bunch* the name of Sam Peckinpah

emerged from a decade of relative obscurity. Appreciated only by the French who discovered in Peckinpah the best living American example of their *auteur* theory (the theory that the director is primarily responsible for the film and is thus the artist), and ignored by the major studios which were unwilling to give him the independence he required, Peckinpah gained the freedom to make his pictures with the advent of the new wave in motion picture making. Peckinpah's newest film, *The Ballad of Cable Hogue* proves that his recent success is no fluke and that he deserves a place along with Peter Yates of *Bullitt* in the ranks of major new directors.

Ballad is indeed a director's film. The careful composition and the meticulous attention to the mood of each scene can be attributed only to a director. Suc touches as the use of reptiles as motifs mark the film as uniquely Peckinpah's.

In *Ballad*, as in *The Wild Bunch*, Peckinpah takes a reverent look at the death of the American West and the men who tamed it and died with it. Their tragedy as Peckinpah sees it lies in their choice. He understands the difficulties and metaphysics of these men and their tragedy well enough to communicate it to his audience.

Prospector Cable Hogue (Jason Robards) is one of these men. Bushwhacked by his companions, left without water to die in the desert, he wanders aimlessly but purposefully for four days all the while loudly asserting his independence of man and God. Finally he gives in a little and humbly asks God for water as a favor not as a gesture of submission.

His request is granted; he stumbles upon a waterhole. Water is the most precious possession in the desert; Cable aims to make his hole a paying proposition. In his struggle he gathers twocompanions who complement him perfectly. Joshua (David Warner) a philandering priest supports himself by vending religion and Hildy (Stella Stevens (wowowowow)); who supports herself by vending love.

After a time, these two leave? the West no longer interests them. Cable is held by need for revenge, a typical Western characteristic. His revenge is interrupted by the passing of a motor car passing by his water hole. The death of Cable's world is at hand. The final moments of the tragedy are irrelevant.

Ballad is not a ponderous, symbol-laden tragedy? it is a tragicomedy. Although some moments are pretty silly, the portrayal is handled withan affectionate grace. It's also a lot of fun.

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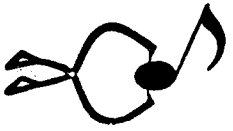
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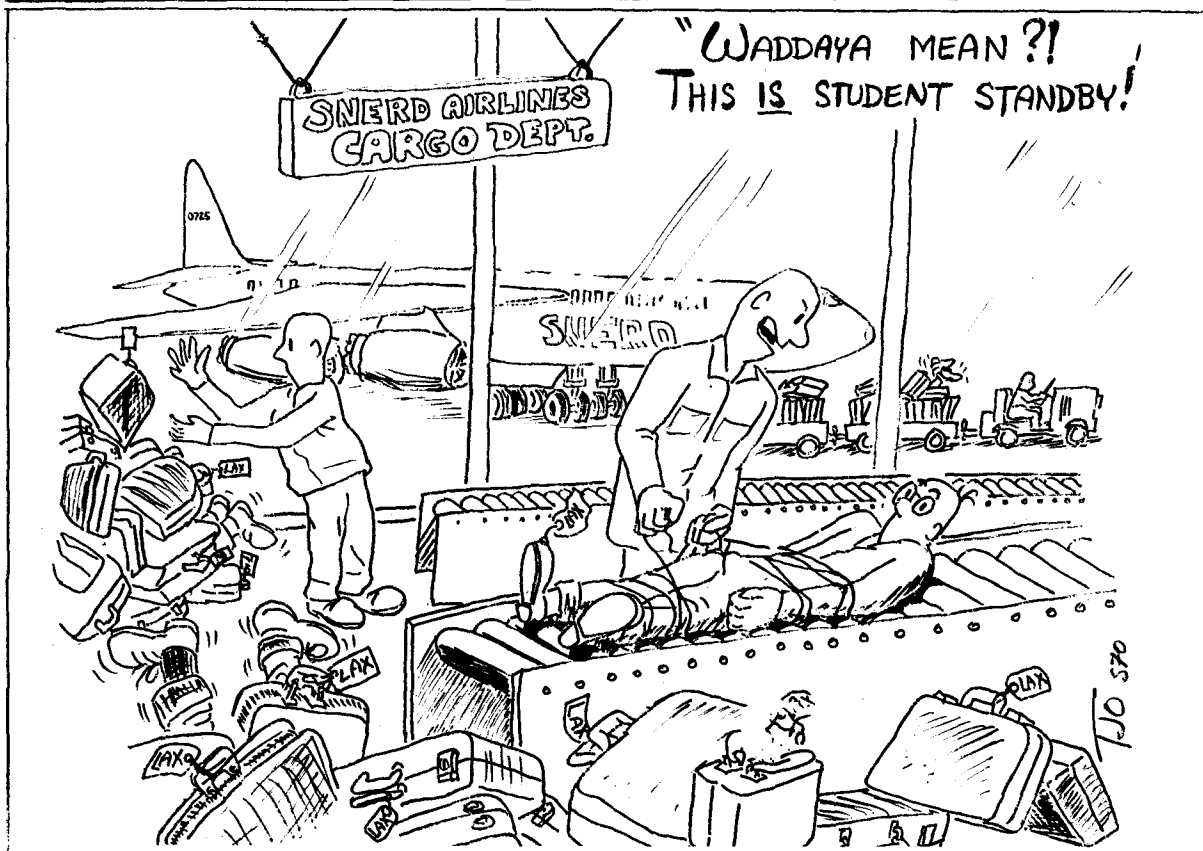
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Student's Day

Continued from Page One

was on top of Millikan (Millikan Oil Drop??). It must be said that the exhibits were well worth the sore feet, however. After visiting N exhibits (where N=6) the students were hustled off to lunch.

Beckman Programmed

The afternoon program at Beckman was good. It was topped off by an excellent and humorous lecture by our beloved Dean Huttenback (By the way, thanks for the pizza and beer!). And so student's day closed leaving fond memories with everyone.

The effectiveness and competence with which the day's activities were carried out can only point out those who worked on it. The exhibits that I visited were excellent.

It went off without a hitch thanks to the time and effort of the student committee, the faculty committee on relations with secondary schools, the masters office and the vast army of guides and exhibitors.

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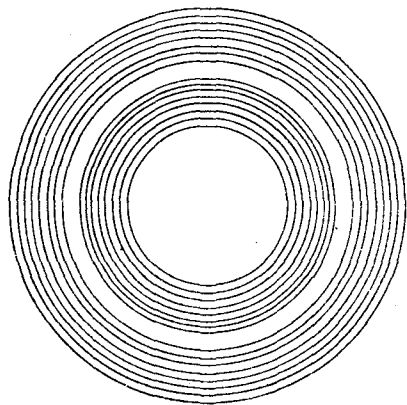
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welcome. to our teach-in on the environment.



During the Environmental Teach-In week we will not be exposing once again the evils of pollution, population and consumption — everyone already knows about these problems, although they may not be conscious of just how bad they are. We wish to go beyond this simple conception, beyond the notion that just because this comfortable, selfish consumer society will disappear, one way or another, within fifteen years, the world will end, and we are relieved now of our responsibility or right to live and live well. Since moaning, research into technological whiz-bang cleaner-uppers, hoarse recriminations against those who pollute, and legislation pure and simple are all equally useless in bringing us to a balance with ourselves and our world, the Teach-In will attempt to ask the question of what is wrong and how we can fix it in a larger context. This week will help us prepare for a world changing, show us how to help that world of tomorrow be livable and living, shape a dream and work towards it. There will be hard knowledge, soft knowledge, exhibits, music, fancy clothes and jeans, happenings, discussions, joy and despair, food and drink, grass and trees, and, if our luck holds, clean air and sunshine.

Welcome.

Thursday — Oil On Water, A New Religion

All Day — Ecology Faire

9:30 — Water Quality Control: Mr. E. F. Dibble, State Water Resources Control Board.

10:30 — Santa Barbara Oil Spill: Mr. WiGeorge Anderson (Film)

11:00 — Get Oil Out: Mr. William Samaras, GOO Two.

12:30 — Mr. Philip Berry, President Sierra Club

1:30 — Water: Mr. George Anderson (Film)

2:00 — California Water Plan: Mr. James Doody, Cal. Dept Water Resources; Mr. Philip Berry, Sierra Club; Mrs. Virginia Brody, Planning and Conservation League.

3:30 — Ecology and Religion: Mr. Les Atkinson, UC San Diego

4:30 — EcoFilm Festival

Friday — Personal Commitment

10:00 — Cliff Humphrey Ecology Action, Berkeley

11:15 — You Can Fight City Hall: Mrs. Jena Astrin, Foothill Areas Association (FAA); Mr. Ben Schil, FAA.

12:15 — Feed-In

2:00 — Food to Eat: Prof R.G. Lincoln, Cal State Long Beach

3:15 — Beyond The Teach In: Paul Wegener, CEAC, Jerry Yudelson, CEAC

Evening — Earth Day Celebration

Here you will find expert information, given by the experts. You will find sources for more, opportunities for action, the direction needed to guide a movement of lasting impact in the battle against all forms of pollution — chemical, physical, and people and spiritual.

Welcome to our Ecology Faire, to enjoy handmade goods, and art and music and the grass and air and sun and a togetherness of all brothers and sisters who love to live.

Welcome to our Earthday Celebration, to joy and glory in the Creation that surrounds us; to lift a voice in song, laughter and greeting; to eat a meal of the Mother's gifts, the seeds that nourish, to fashion alone, together a dream of light and darkness, of living and dying, of unity and separation — harmonies, balanced with ourselves and the world about us.

"The primitive world view, far-out scientific knowledge, and the poetic imagination are related forces which may help, if not to save the world or humanity, at least to save the Redwoods."

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Redlands Swamps Tech in Three-of-Three Sweep

by Tom Matoi

Redlands combined hitting and pitching to swiip a three-game series from Caltech last week. On April 8, the Beaver nine were blanked, 7-0, and on Saturday, the 11th, the Beavers were swamped, 15-1 and 19-0.

All was not lost for Tech, as freshmen Tom Howell and Jerry Feely shared batting honors in the double-header as they collected 10 hits in their 15 at bats. Howell, who shares pitching chores and also covers first base and center field, went 3-for-4 in both weekend encounters. Feely, who alternates

between first and second base, swatted a single and double in each half.

In the series opener, Dave Turner went the distance and allowed single tallies in the first and sixth frames, but 5 runs in a disastrous fourth turned the contest into a one-sided battle. One of the defensive highlights of the match occurred when Bill Delaney turned a potential sacrifice fly into a double play with a perfect throw to the plate as catcher Mark Meldgin blocked the runner. Feely further padded his batting average in this contest as he stroked 2 singles in his 4 trips to the plate.



Tech Runs Over Chapman

by Dave Dixon

Caltech was second to Biola, 83-49, but downed LaVerne, 49-48, in a triple meet held on April 7. Then, on Saturday, they ran over Chapman College, 98-34.

In the triple meet, the weight men paced the field with Blaschko winning the shot, while Abatzoglou took the discus and Thoele out-threw all to win the javelin.

The running events were dominated by Musa of Biola, a member

of the Nigerian Olympic Team. However, the Beavers did well with Almquist gaining a second in the 440, Smith second in the 2-mile and Stormo taking seconds in both the 100 and 220. Tardiff and Pope did not fare as well but were third and fourth in both the mile and 880.

Against Chapman, everyone performed well. As usual the weight men made a fine showing with Abatzoglou and Blaschko, 1-2 in shot put, Thoele and Cox 1-2 in the javelin and Abatzoglou, Prohaska

and Blenz sweeping the discus.

Stormo led all of the Beavers in points with wins in the 100, 220, triple jump and a second in the long jump. Almquist won the 440, while Pope ran to victory in the 880 and Tardiff easily outdistanced a Chapman runner for first in the mile.

In other events, Hurn captured a win in the 440 intermediate hurdles and White won the high jump. To wrap it up, both relay teams were victorious.



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CACTUS CASUALS

SPORT Picks Cubs, Red, O's, & A's

NEW YORK, -- The Chicago Cubs and the Cincinnati Reds are the picks for Eastern and Western Division championships, respectively, in the National League and the Baltimore Orioles and the Oakland A's are the divisional picks in the American League, according to an exclusive poll of more than 600 major-leaguers appearing in the current issue of SPORT Magazine.

The players also make the Cubs a slight choice over the Reds for the N.L. flag and the Orioles a heavy favorite over the A's for the A.L. flag in the season-ending best-of-five playoffs between division champs.

Coach Lamb Not Ashamed

Netmen Drop Two 9-0, 7-2

The varsity tennis coach, Mr. Johnny Lamb, was not at all ashamed of the fact that his players lost two matches last week by scores of 9-0 and 7-2.

Wednesday at Claremont the Tech team was shut out by a very strong group of Claremont-Mudd men. The CHM first singles player, Don Brosseau, who beat Tech's Bill Almassy 6-1, 6-1, is a NAIA All-American. Brosseau led Claremont-Mudd in their close, 5-4 loss to national champion Redlands earlier this year.

Saturday Caltech lost a 7-2 match at Cal Lutheran College, but all but one of the singles matches was very close.

Taking the singles matches in order: Cal Lutheran's Mark Wangness edged Bill Almassy 6-4, 7-5 at

first singles. Tech's Ken Pischel was nipped by Lee Danforth 6-4, 6-4. At third singles Tech's Andy Chow beat Rick Schroeder 6-4, 6-2. Cal Lutheran's Randy Butth defeated George Lantos 6-3, 6-1, and Jeff Webb beat Tech's Bruce Eisenhart by the narrow margin of 7-5, 7-5. In the final singles match, Jim Crawford won for the first time in a three-set match, 3-6, 6-2, 6-2.

Cal Lutheran won all three doubles matches.

Almassy and Pischel played together for the first time in preparation for the Ojai Tennis Tournament which they will compete in.

The Caltech junior varsity squad was whipped 9-0 by Claremont-Harvey Mudd last Wednesday.

Tennis Team Nets First League Victory 5-4

by Richard Short

The Caltech varsity tennis team won a league match for the first time in four years when it edged Whittier five to four last week. Coach Johnny Lamb called it a "fine team victory" and commented that the players have been "competing pretty well, usually".

There was not enough time to complete the match on the scheduled day last Tuesday. All six singles matches were finished and the score was tied 3-3 when the match was suspended Tuesday evening.

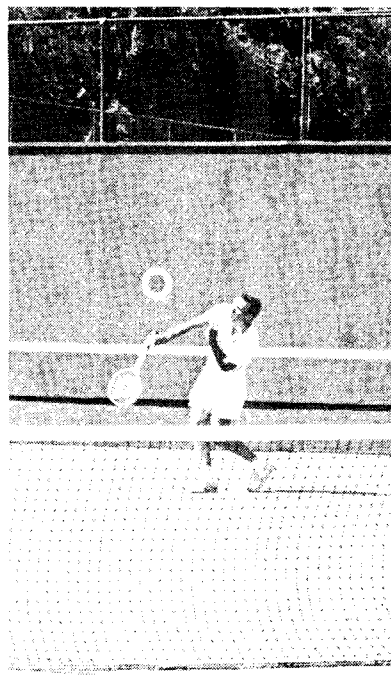
The Caltech team returned to Whittier Friday to take two of the three doubles matches and win the whole thing by a 5-4 score.

The Tech players exhibited a definitely competitive spirit and poise while playing under pressure.

The first doubles team of Ken Pischel and Andy Chow knocked off Whittier's duo of Dave Cook and Henry Gray 6-3, 6-3. Bill Almassy and George Lantos of Caltech clipped Ed Goldman and Don Ralls 6-4, 7-5 in the second doubles match. Whittier's team of Tom Cox and Chuck Young came back to edge Don Smith and Jim Crawford by a score of 7-5, 6-4.

The Tech varsity fell to Pomona 9-0 here at Tech Saturday in a match which we might as well forget.

The junior varsity team improved its 1970 conference record to 2-1 by defeating both Whittier and Pomona by five to four margins.



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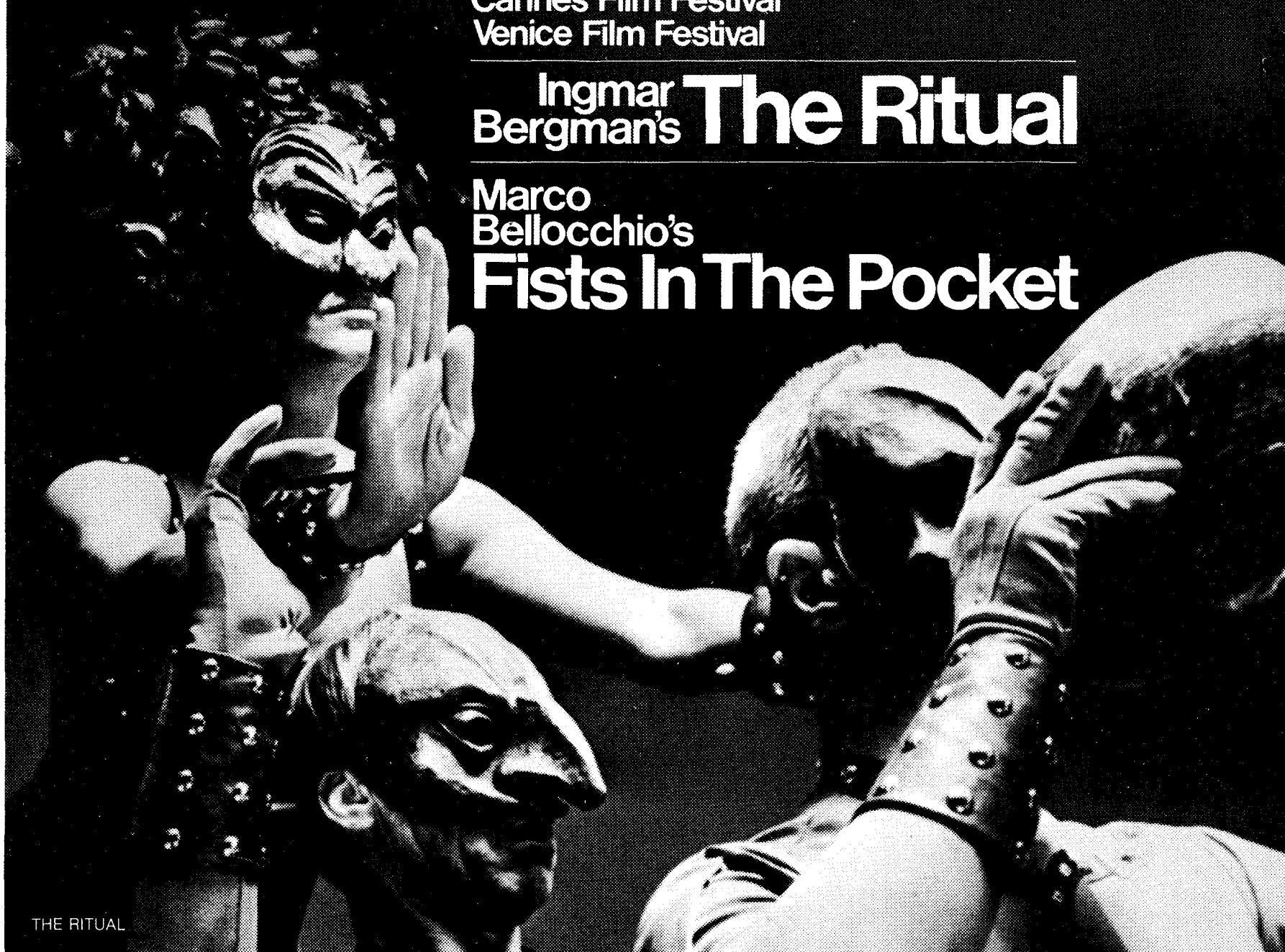


The Janus Concert Society Presents
**FIRST RUN FILMS
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Ingmar Bergman's **The Ritual**

Marco Bellocchio's
Fists In The Pocket



THE RITUAL

Ingmar
 Bergman's
The Ritual

Playing

Beckman Auditorium

Friday, May 1 at 8.30 p.m.

CALTECH STUDENTS \$1.00 CALTECH PERSONNEL \$2.00

(General Admission: \$2.50, Students \$2.00)

Tickets may be obtained at the Caltech Ticket Office just north of the Auditorium on the parking lot (9 a.m. to 5 p.m. Monday through Friday; 9 a.m. to 1 p.m. Saturdays), and at all Ticketron, Mutual and Wallichs Music City agencies.

Presented by the Faculty Committee on Programs

Marco Bellocchio's **FISTS IN THE POCKET** will be presented at Beckman Auditorium on November 7, 1970 as part of the Janus Concert Society series next fall in Beckman Auditorium.