

Effects of Carter's Policies Discussed

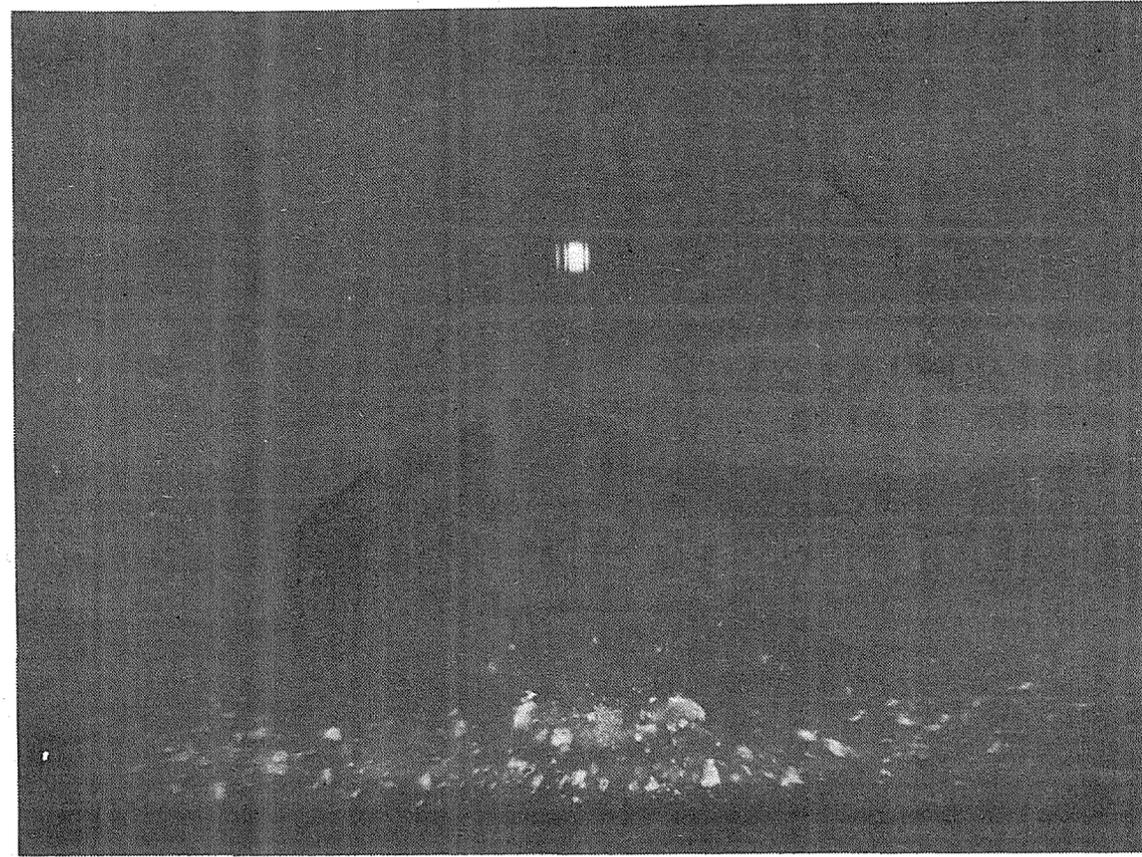
By Geoff Sommer

Dr. Jane Pisano, former White House fellow, was on campus last Monday to discuss third-world policy in the Carter administration. As guest speaker at Dr. Munger's Political Geography of Developing Countries seminar, Dr. Pisano gave an insider's view on how the Carter White House interacts with congress to determine U.S. foreign policy.

The first issue discussed was the Carter arms sales policy. Soon after his election, President Carter decided that arms sales would henceforth decline from one fiscal year to the next, despite the help arms sales give to the national balance of payments deficit. However, the previous administration had left Carter with a legacy of pending arms sales, the most notable being a multibillion dollar AWACS sale to Iran. The Airborne Warning and Control System is a highly sophisticated electronic surveillance package mounted inside a Boeing 707. Critics of the sale, even including CIA director Stansfield Turner, claimed that should this top secret system fall into Soviet hands, U.S. security would be severely compromised.

Due to opposition in the House of Representatives, President Carter withdrew his request for AWACS sale approval and resubmitted it following the summer recess this year. Decision by congress is pending.

Dr. Pisano then went on to discuss the current U.S. policy toward South Africa. Carter decided early in his administration that the U.S. would under-



The Fourth Annual Millikan Pumpkin Drop Experiment was a smashing success.

take a major political thrust against South Africa. Vice President Mondale pulled no punches during his meeting with Prime Minister Vorster, while Andrew Young made the new U.S. policy clear to black Africa with full White House backing. Currently, no one would like to see economic sanctions imposed against South Africa. The White House would like to see an arms embargo imposed, but international agreement on this is both necessary and unlikely.

The Carter Administration has made a name for itself by embarking on moral ventures whose short-range success seems doubtful. The long range impact of Carter's policies cannot be accurately predicted. Whether Jimmy Carter is a Don Quixote or a Robin Hood remains to be seen.

Californians Older Than was Thought

By Mark J. Rosker

Recent archaeological finds from throughout the western United States indicate that man migrated to this continent as early as 50,000 years ago. This point was brought forward by archaeologist Ruth Dee Simpson in her lecture "Evidence of Ice-Age Man in Southern California." The lecture, second in the season's Earnest C. Watson Caltech Lecture Series, was held Wednesday night at Beckman Auditorium.

Ms Simpson began her discussion by stating that the development of new technologies related to archaeology "has made this talk possible." Prior to twenty years ago, little serious archaeological attention was paid to North America. Exposed fossil remains, often found by farmers, were generally discounted.

But the development of new techniques has allowed scientists to prove the archaeological importance of North America.

Microanalysis of stone tools for wear patterns Ms Simpson said, can now prove not only that an object was used as a tool, but "even that it was used by a left-handed individual." Dating techniques are also imminently valuable. The carbon fourteen technique, first used in 1950, can determine the age of any carbon-containing object up to 45,000 years old. For even older dates, a new technique involving thermoluminescence is being experimented with.

Ms Simpson's lecture then shifted to a discussion of finds throughout California. For an example, she showed several slides of Santa Rosa Island, where tools and other fossils over 40,000 years old have been found. Human skulls dating back 27,000 years have also been located there.

Even more spectacular was the Del Mar Skull. Found in San Diego almost fifty years ago, the

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Psychological Counseling Program Started

By Jim Reichle

A new "peer counseling" program is getting underway here in the undergrad houses at Caltech. According to Jim Mayer, master of student houses, upperclassmen from each house are being trained in psychological counseling techniques.

According to McPherson, the counselors are being trained to recognize problems ranging from incompatibility between roommates to sexual frustration. They are also learning how to be open and receptive to fellow students, in order to make them more comfortable when talking about their problems. McPherson and Faas intend to serve in an advisory capacity, providing background information and support to the counselors.

Because this is its pilot year, the program is starting very gradually. Most of the counselors were selected from the officers or the upperclass committeemen in each house, so they would be familiar to a large number of people in the house. Since many of them are already house officers, the counselors are really pressed for time. In addition, McPherson says that not all of the houses are participating in the program. If you live in one of the houses, the RA's will know if you house is participating and who the counselors are.

Mayer, McPherson, and Faas are all eager for the success of the program. In McPherson's words, "interpersonal relationships are of prime importance" to mental health.

Mayer is working with Institute psychologists Sigrid McPherson and Barbara Faas to set up the program, which has been in the planning stages for quite some time. He has observed counseling programs at Princeton,

Wesleyan, and other schools, and says that Caltech is "way behind the times" comparatively. Meanwhile, McPherson and Faas have started to train the counselors.

The idea behind the program is to provide several levels of counseling to the student who needs it. McPherson says that some students who need help hesitate to come to her because they feel that seeing a psychologist is an admission of inadequacy. Because of this barrier between the students and the professional counseling staff, it was decided that in-house "peer counselors" would be trained.

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Deans Choose Cadre

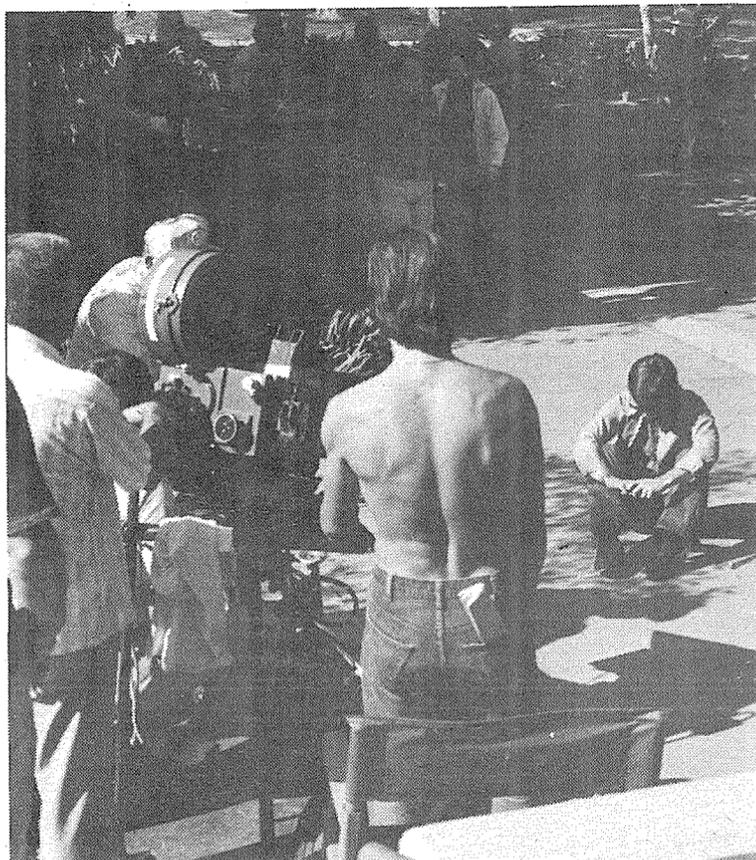
Dr. Ray Owen, dean of students, and Dr. David Wales, associate dean of students, have announced the formation of the Dean's Advisory Committee (DAC), which will address itself to improving the services offered by the Dean's Office.

The Deans have brought together a diverse group of undergraduates in order to get a "cross-section" of student ideas and opinions. Dr. Owen explained that, of course, he sees many students who have academic problems, and also many students involved in ASCIT and student publications activities, but he does not necessarily find out about what Techers in general have on their minds.

So, the DAC has been formed to provide an "inner circle" of students to bring ideas in from the outside—that is, from undergrads in general. The eight who currently serve on the charter DAC are Bob Bible (Page House), Peter Edwards (Fleming), Jill Ibers (Blacker), Eric Kaler (Ruddock), Carol Thompson (Fleming), Bert Wells (Ruddock), Larry West (Dabney), and Mark Wold (Lloyd).

At their first meeting with the Deans, DAC members discussed trustees visits, problems this year with course conflicts, the coffee-house and the services it provides, physical education problems, and improving health services. The DAC will get together at least once a month to discuss topics similar to those mentioned above. The idea is to identify problems with undergraduate life here at Tech, and to find out if the "rumors" that filter about on campus can be attributed to any real problems.

Interested undergrads are encouraged to contact DAC members, or the Deans, and bring forth their ideas.



The "Family" filmers invaded Tech again this Thursday. photo by ed.

Editorial

Who's Next?

Having given in to my latent insanity, the *Tech* now has one editor. This, as they say, is a temporary condition and at the elections second term the direction of this mangy sheet will be passed on. The problem is, to whom?

This June will see the departure of most of the people who know how to put out the paper. The *Tech*, in short, needs fresh blood.

There are a great many ways you (yes, you) can do something about this. You don't need to put life, limb, and GPA on the line by being an editor.

You can be a writer, a reviewer, or a photographer. If you're on any team, you've got a good subject right there.

Then too, you can help handle the production, the circulation, or the business aspects. Someone has to take care of these things, and there is some remuneration in the form of a few units, some money, and the ever-popular Graft & Corruption.

If you ever want to find out more about putting out the *Tech*, and I sure hope that some of you do, come by the offices in Winnett. Whether the beginning, middle, or end of a term, we'll be happy to see you and be glad to put you to work.

ed.—

Spectrum 15

'Electra' Production Fails to Realize Potential

Sophocles' *Electra* is potentially one of the most powerful plays ever written. Unfortunately, this potential is not realized in its production as Spectrum Production 15. While the performance is very good (and I can wholeheartedly recommend that anyone who enjoys good theater go see it), it is not all that it could (or should) be.

In this production, a number of changes were made from the original play, some good, some bad, and some indifferent. On the good side, the music which was added is a very decided asset to the play and must be considered a very good, though unorthodox, innovation. The reduction of the chorus to three people as opposed to the original fifteen was quite necessary, as a modern auditorium does not have the pit in which they would normally be placed. As a result, the reduction removed the potential distraction and inconvenience which would follow from having fifteen people milling around either the front of the stage or the stage proper and obscuring the actors. Placing the remaining three members on the stage was, once again, a necessary change, as putting them in front of the stage would have been even more inappropriate without the pit.

The lighting, previously heralded as an important part of this production, was rather disappointing. There was little or nothing to distinguish it from the lighting one sees in any play, but it was quite adequate.

Finally, there were a few things that actually detracted from the quality of the performance. First and most notice-

able was the attempt to treat the chorus as three individuals instead of a chorus. Not only is this a very significant departure from most interpretations of the play, it simply did not work. In the midst of characters of great evil and great fanaticism, we see a group of three people who seem to be entirely ordinary. They seemed out of place, without contributing anything by the contrast they allowed between themselves and the main characters. Without the anonymity granted them by the author, these people seemed incongruous. There is simply no room for the voice of reason on the same stage as *Electra*, yet that is what is portrayed in the production. The chorus is almost totally ineffective, except on the rare occasions when it is allowed to act in chorus. There, the urgency that the chorus should have throughout the play comes to the fore, and this makes the individual speeches of the individual members all the more incongruous and ineffectual. The chorus was not meant to be portrayed as individuals, and this fact becomes very obvious during the production. The rest of the characters, too, suffered from attempts to bring them into modern theater, where they were completely out of place. *Electra* was written for actors who wore masks that hid their faces and distorted their voices. They were not so much characters in the modern sense as stereotypes. The words themselves, not the acting, achieved the characterization that the modern actor finds himself called upon to create. Unfortunately,

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Letters to The Tech

To the Editors:

Tuesday night, as a buddy and I were walking through Fleming on our way from Darbney to Scurvia, a most brash character stepped into our path and said "Club members only, Fleming's closed." Now I've thought of Caltech in numerous ways but I would never have the notion to consider any part of it a country club, so I concluded that this character was some sort of maniac and determined to continue on my way, and my companion likewise. However, the brash character called out for help, and four more appeared, all bigger than the first. We attempted to reason with these, but they called out for another (the biggest meanest father raper of them all). This one was more aggressive, and so we concluded that the quickest route lay through Dabney and proceeded without further incident. It does seem, though, that a little guy, like the first brash character, who gets himself into trouble and calls out for five bigger guys to get him out of it, when backing down would be sufficient for that purpose, exhibits the sort of behavior that in the vernacular is called CHICKEN-SHIT.

Dave Walker
Ricketts

I would like to clarify two points of the tuition article in last Friday's *Tech*.

First, it has been said that the figure of \$15,500 per student per year is too high because professors with relatively light teaching loads are included in this computation at full salary. I would like to say two things about this, both of which relate to research at Caltech. First, by far the majority of the faculty here is actively engaged in research. Most of these faculty members have graduates and even undergraduates working on their research projects in some capacity. This research becomes an intrinsic part of the students education. Secondly, I feel that there is much to be valued in having a faculty that continues to be at the forefront of its respective fields. Even though it is impossible to decide exactly how much this contributes to a Caltech education, I feel that it is definitely worth something more tangible than a thank you and a pat on the back.

The second comment relates to increases in educational costs and tuition. The just criticism has been made that I seem to contradict myself by stating that increases in tuition have been roughly equaled by increases in educational expenses and then following this with a comment about tuition increasing faster than expenses. What I meant to point out was that even though tuition is indeed increasing faster, it seems to be a somewhat slowly evolving problem rather than a drastic change.

Brett Stutz

The CALIFORNIA Tech

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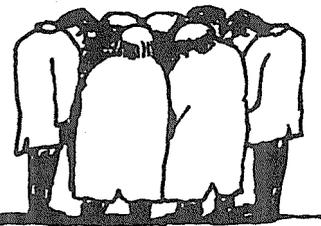
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News Briefs

Blood and Beer

The current blood shortage in the Los Angeles hospitals has prompted a second Caltech Blood Drive on campus. It will be held on Thursday and Friday, November 17-18, from 11 am to 3:30 pm, in Dabney Lounge. A little incentive will be added for the students—an anonymous donor will present either ½ keg of beer or root beer (your choice) to the student house that donates the most pints of blood during the drive. So, come on down and roll up your sleeve—and give!! Please call Gwenn Glass on Ext. 2374 to make an appointment; appointments will eliminate unnecessary waiting.

Move Your Ath!

Students are reminded that parking in the Athenaeum parking lot is reserved for members and guests only. E. Chester and Holliston lots have been designated student parking. Beginning Monday 7 Nov. 77, citations will be issued and when applicable, tow-away infractions will be strongly enforced.

Get Out of The Smog

The Caltech Cycling Federation will be riding along the California Aqueduct this Sunday near the Tajon pass. Transportation for bikes and people will be available. Meet at 7:00 am in the Quad.

Naval Miniatures

The "limies" and the "jerries" will have a go at each other this Saturday at 7:30 pm in Dabney Hall Lounge.

Medic!

The health center is looking for interested students to fill a limited number of places in the health advocate program. These students' training is to be based on a core course to be given at USC next term which will center on first aid and CPR, general health, and psychiatric crisis intervention. Those interested should contact Dr. Marlene Coleman at Young Health Center as soon as possible.

Here's Your Last Chance

Nominations for all remaining offices and committee positions close today at 5 pm. Elections will be held in the student houses and in Winnett Center on Wednesday, Nov. 9.

To Whom It May Concern

It's *terribly* thoughtful of you to *steal* the magazines and newspapers that are in Winnett Lounge. After all, no one else could *possibly* be interested in reading them.

All magazines in binders and newspapers on sticks are to be left in the Lounge. Only those that are unbound may be taken from the Lounge.

PASCOPEX

The Pasadena Coin & Stamp Expo, to be held Nov. 11-12-13, 1977, at the fashionable Pasadena Convention Center, Conference Building, 300 East Green St., Pasadena, Calif. Show hours: Friday, 12 noon to 9 pm; Sat., 10 am to 9 pm; and Sun., 10 am to 5 pm. Admission is \$1 for all three days.

Hoofing in the Greasy?

Ballroom dancing will be held in Chandler Dining Hall on Friday, Nov. 4 at 7:30 pm.

Where Were You Last Year?

The *Big T* is here. Go see Flora to get yours.

Juniors Take Note

The U. S. Navy recruiting team will be on campus to interview all degree/all option students on Tuesday, November 15. This may be of particular interest to members of the junior class; because of the scholarship available. It is for students interested in duty as an officer in the nuclear fleet. The Navy will pay \$654 per month during a student's senior year. The scholarship is for students working toward a Bachelor's degree in engineering, physics, chemistry, or math. More information is available in the Placement Office, Room 8 Dabney Hall.

Hillel Planning Meeting

There will be a Hillel meeting this Sunday at 10:30 am on Winnett Patio. We will be discussing future plans.

PhD Candidates and Research Fellows

The following companies will be on campus to interview PhD candidates and Research Fellows for possible employment during the period 7 Nov. - 11 Nov.:
7 Nov.—Union Carbide, Eastman Kodak, Continental Oil;
8 Nov.—Union Carbide, Eli Lilly;
9 Nov.—Occidental Research, Union Carbide, Hercules Research;
10 Nov.—Procter and Gamble, International Paper Co.;
11 Nov.—Texas Instruments, TRW Defense & Space Systems Group.

Sign up for interviews in the Placement Office, Room 8 Dabney Hall.

Sign Up to Get Out

All seniors are advised that they should stop by the Registrar's Office not later than Monday, November 7, to review their course records and sign declaration of candidacy forms.

Food Co-op Hungry For New Members

The Caltech Food Co-op seeks new members. We buy fresh fruits and vegetables, cheese, eggs, and other good food weekly at wholesale prices. For further details, call Joel Rubenstein, 795-8983 between 4 pm and midnight.

Big Bucks for Future Fatgrads

California State Graduate Fellowship applications are anticipated to be available in the Placement Office in early November. The deadline date for the 1978-79 competition will be February 6, 1978.

Revenge of the Ballroom

On Saturday, January 28, 1978, the U.S. Amateur Ballroom Dancers Association (W.R.A.), is holding its Ninth Amateur Championship Ball and Competitions, featuring International, American- and Latin-style dancing. It involves various age groups, including teen-agers and college age students. There will also be formation team competitions consisting of college students. The event will take place at the Glendale Civic Auditorium. The admission fee will be \$6 for table reservations and \$3 for general admission. For further information, contact Ellen S. Alter at 633 Ocean Avenue, Apt. 27, Santa Monica, California 90402, or 394-7371 and 393-6831 evenings or weekends. So start getting your toes all twinkled up!

Speak Out on Financial Aid

The Faculty Committee on Scholarships and Financial Aid is anxious to have undergraduate student opinion on all aspects of financial aid at Caltech—including the size of the self-help package, loan policy, and prize scholarships. Anyone with an opinion (as distinct from a gripe about some detail of his or her case) will do us all a favor by bringing it to me, Peter Fay, (Baxter 238, I'm there most of the time and the door is literally open) or to the two undergrad Committee members, Bert Wells and Marta De Jesus (both of Ruddock).

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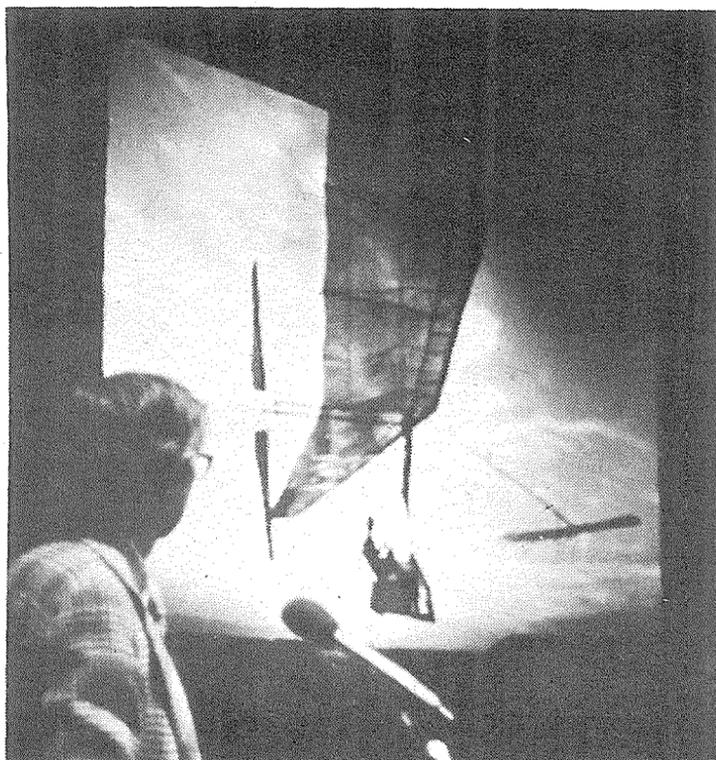
Noon Concerts



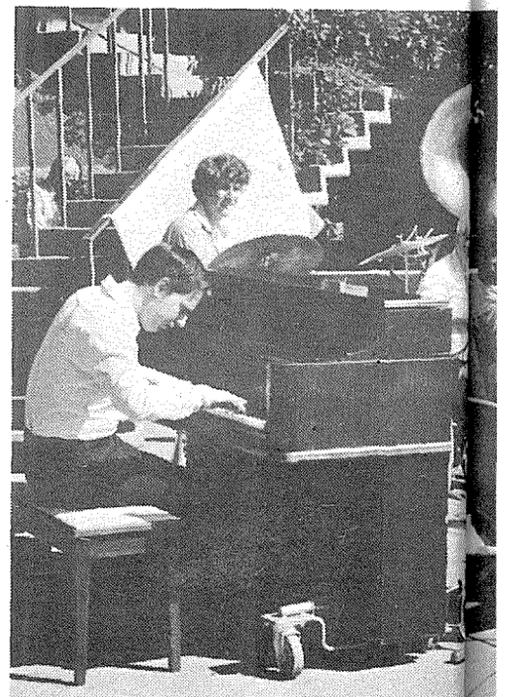
The Belly-Dancers

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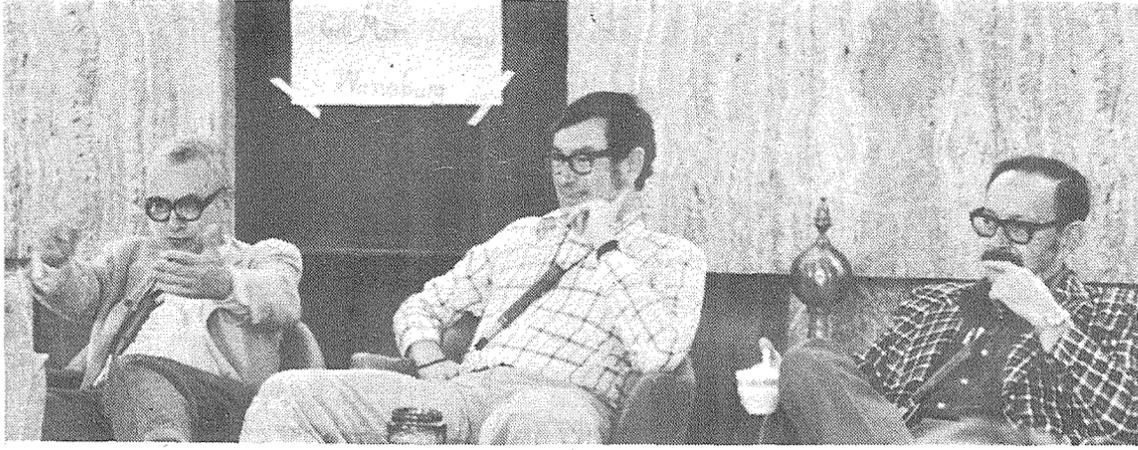
*Don Bacon
Ed Bielecki
Joe DeGiogio
Sai-Wai Fu
Chris Wheeler*



Dr. Paul McCready and the Gossamer Condor



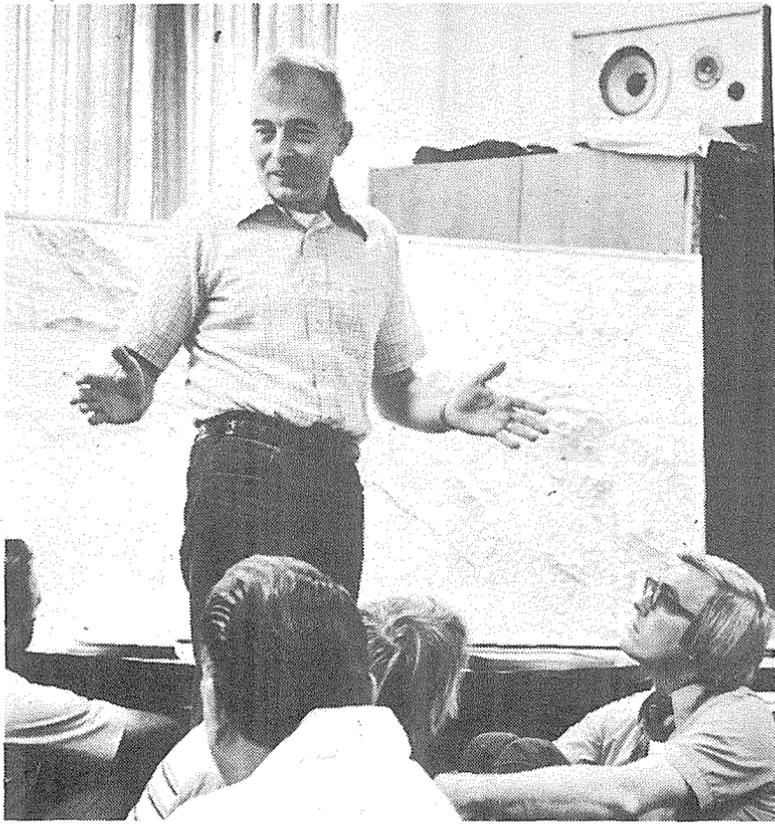
And morets



Gray, Gell-Mann, and Wasserburg on Creativity



Walt Meader, *Director*



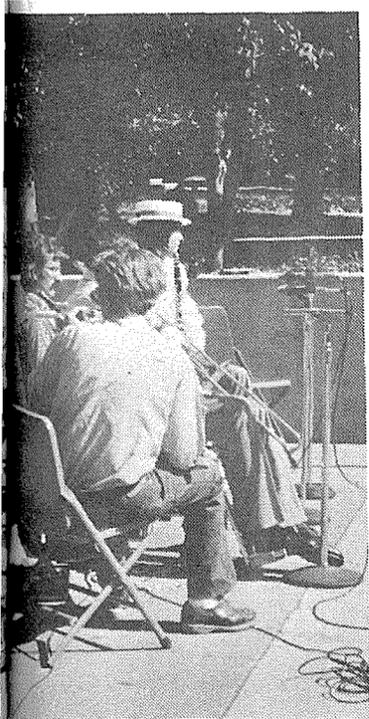
Professor Fred Shair on Smog

Yet To Come:

- Yehuda Amichai
- Jack Anderson
- Ray Bradbury
- Edmund G. Brown, Jr.
- G. Patrick Flanagan



Chris Vertosick, *Administrative Secretary*



EVIDENCE OF ICE-AGE MAN IN SOUTHERN CALIFORNIA

Continued from Page One
importance of this skull was only recently realized. A new dating technique using protein and bone indicates the Del Mar Skull to be at least 48,000 years old.

The most fascinating part of Ms Simpson's lecture, however, concerned her own work as Curator of Archaeology of the San Bernardino County Museum. In this capacity she has, since 1964, been associated with excavations at Lake Manix Basin, an area 10 miles to the east of Barstow. On the alluvial fan of the Calico Mountains, the site was a shoreline 20,000 years ago. The location for the first dig was determined by the late Dr.

Lewis Leakey, who was closely connected to the Calico project. Ms Simpson said that Leakey, upon visiting the area, rejected her proposed location for the dig because it was in a canyon. As fate would have it, Leakey's alternative location turned out to be an archaeological gold mine. Hundreds of stone tools have been found at Calico, dating back 50,000 years or more. The greatest find, however, was a semicircular collection of rock resembling a fireplace. It has recently been proved by a spinomagnetometer that the rocks were indeed used as a hearth. The hearth is probably 60,000 years old.

SPECTRUM 15—'ELECTRA'

Continued from Page Two
nately, the actors, or perhaps the director, in this production were not content to let Sophocles' words speak for themselves, they tried to add their own "interpretation" to Sophocles' drama, and their efforts were rewarded with something less than what they

could have achieved had they not felt constrained to use the conventions of modern theater for a play as alien to it even as *Electra*. As I said at the outset, it was very good, but it should have been much better.

—Carl J Lydic

PEER COUNSELORS

Continued from Page One
Since these counselors are living in the houses, they are much closer to potential counselees and their problems. They have a clear advantage over the professional staff in that they will be able to detect emotional trouble early, says McPherson.

She and Faas have been meeting weekly with a "core group" consisting of one or two counselors from each house. A second, larger group is being planned. This group would meet twice every term, and would include the Resident Associates from each house.

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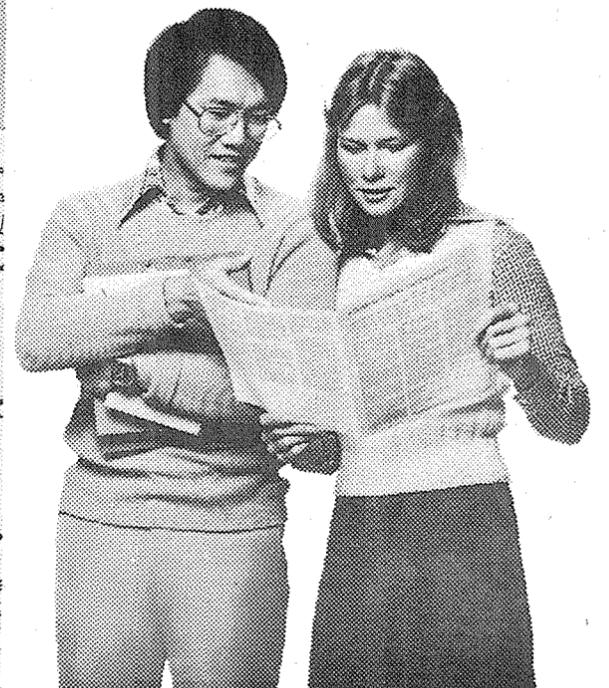
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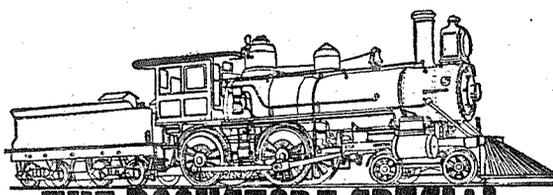
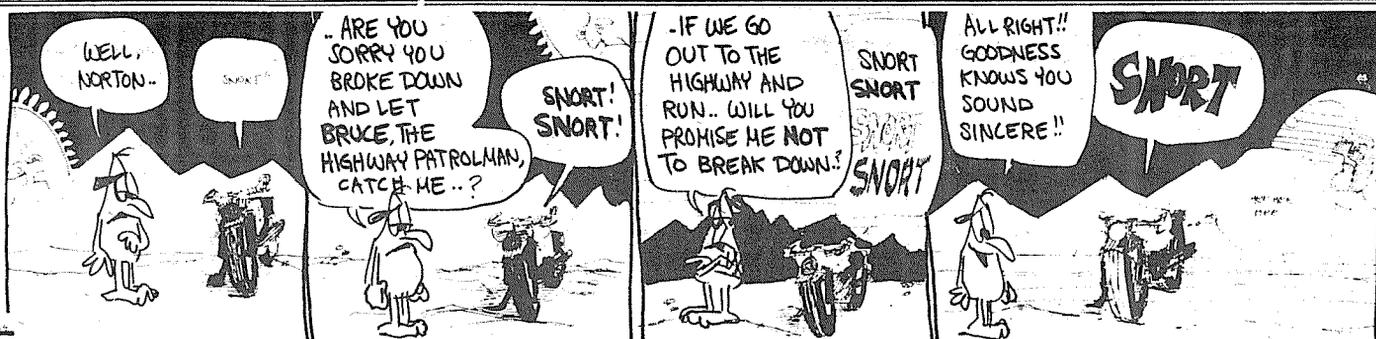
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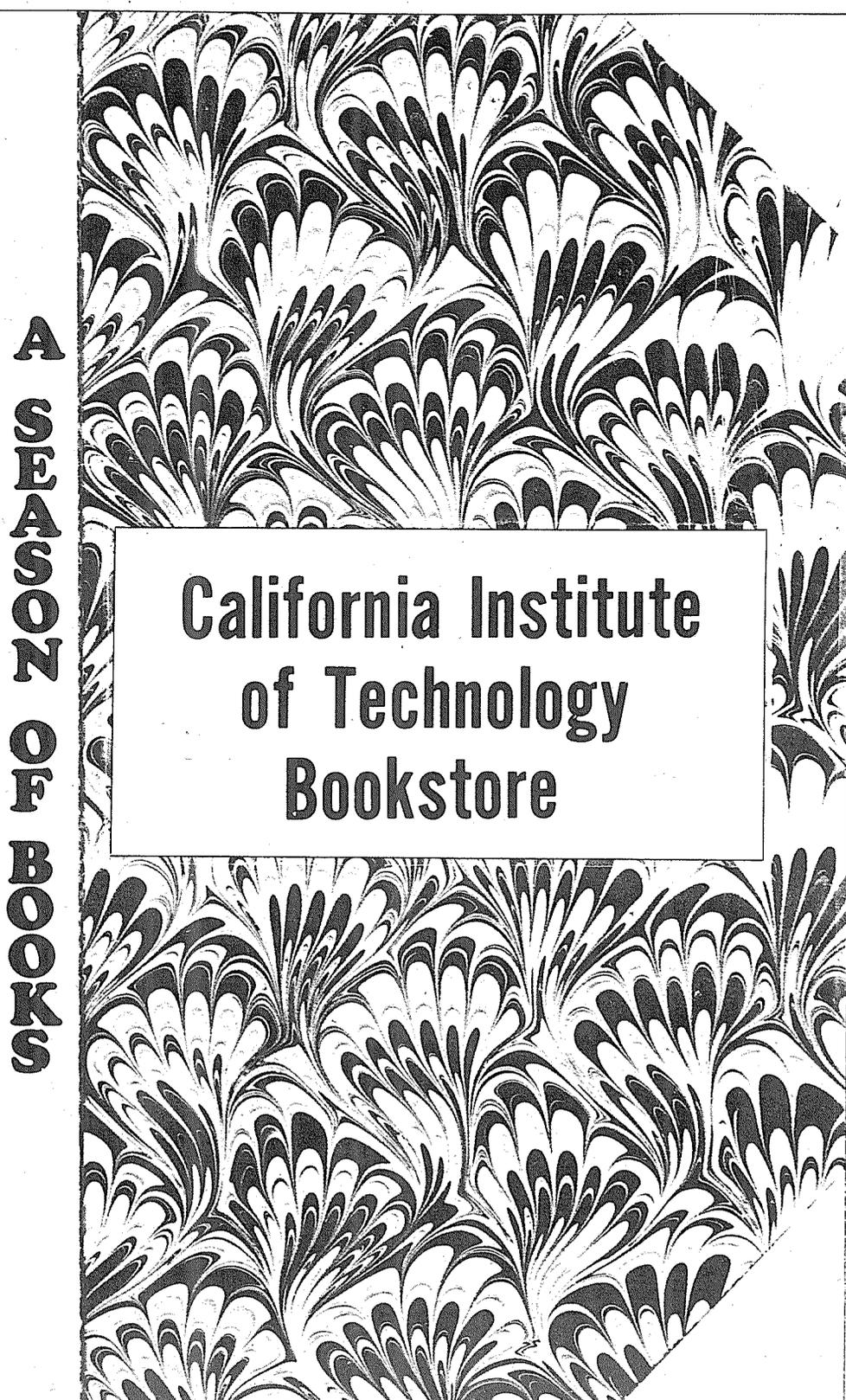
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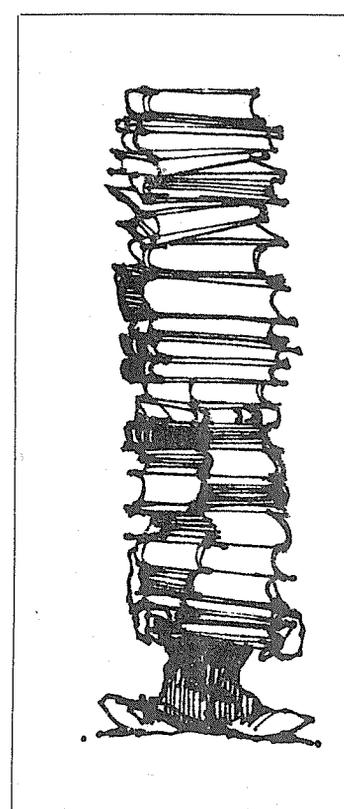
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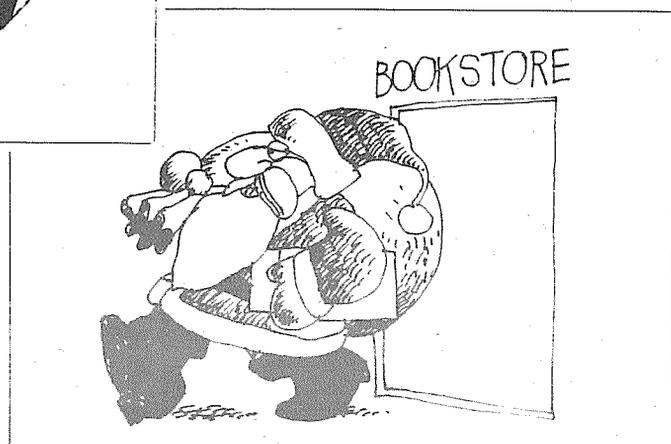
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Two Losses

Tech Water Polo Carries On

By ed.

Tech's water polo team only played twice this past week, but the two games were almost exact opposites of each other. Saturday, the team faced Whittier, one of the stronger teams in the conference. In fact, Whittier had only lost to Oxy, the conference leader, by one goal, but the team was in good form for the game, and although they went down 20 to 13, they had definite cause for being cheerful about it. The team worked together as a team, and five players shared the goals: Doug Jones and Gary Tornquist had four each, Jim Findley made three, and John Reimer and captain Chris Sexton each added one more.

Wednesday's meeting with Redlands was not, regrettably, conducted with the same spirit.

They had lost to Ambassador, which Tech had beaten, and the team was looking for an easy win. The team was not working up to par though, and Redlands managed a 12 to 12 tie in regular time, which they then turned into a 15 to 14 win in overtime. The Redlanders put the winning goal in during the last 30 seconds, while Tech was playing a man down. The team will try to get back on line when it faces Oxy on Saturday at Oxy.



the older generation has a lot of stuffy ideas... cigarette smoking is one!



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