

Techers Protest Apartheid

by Ketan Shah

[This is the first of two articles on campus protests against apartheid.]

About twenty spirited but well-behaved Caltech students demonstrated against apartheid last Wednesday at the Winnett Student Center quad.

Michael Chwe, senior in economics, said Caltech didn't have a history of organizing: "We missed out on the sixties."

The hour-long demonstration was strikingly unlike the militant anti-apartheid protests taking place at the University of California at Berkeley and at Columbia University. However, Mr. Chwe, the co-organizer of the demonstration, said that they were rallying partly to show support for their colleagues at several other universities. The Caltech protestors were polite and careful not to block pathways.

There was notable enthusiasm which did not hide their deeply felt concern about South Africa's legally entrenched policy of racial segregation. Castor Fu, co-organizer of the demonstration, regretted that Caltech students "don't realize the fundamental moral issue"—that it is more than an issue of racism sing apartheid is legislated racial discrimination.

Students attending the rally held placards that read, "Caltech says 'No!' to Apartheid" and "Remember Sharpeville Massacre." Some students were inspired with wit and had placards bearing the messages, "Up with D.E.I., Down with Apartheid," "Constructive Engagement Isn't," and "Disinvestment Rocks." Professor Richard Feynman walked by, commenting, "I'm in favor of motherhood, too."

Most of the demonstrators walked in a circle on the Quad, while a few handed out an information sheet that explains what apartheid is and what students at other universities are trying to do. Later they marched in front of the Athenaeum.

The handout also listed names of Caltech trustees in executive

positions of companies that do business in South Africa. Among eleven names, Simon Ramo of TRW, Robert McNamara of TWA, William Gould of Beckman Instruments, and John Akers of IBM were listed. IBM and seven other American companies control about 70% of the South African computer market. IBM itself doesn't sell its products directly to certain South African government agencies, but their computers nevertheless are somehow acquired by departments that administer the passbook system that is used to control the movement of blacks in South Africa.

In a stockholders meeting in Atlanta several days ago, Mr. Akers of IBM said that their "presence there is a presence for good," and that "we are not going to leave."

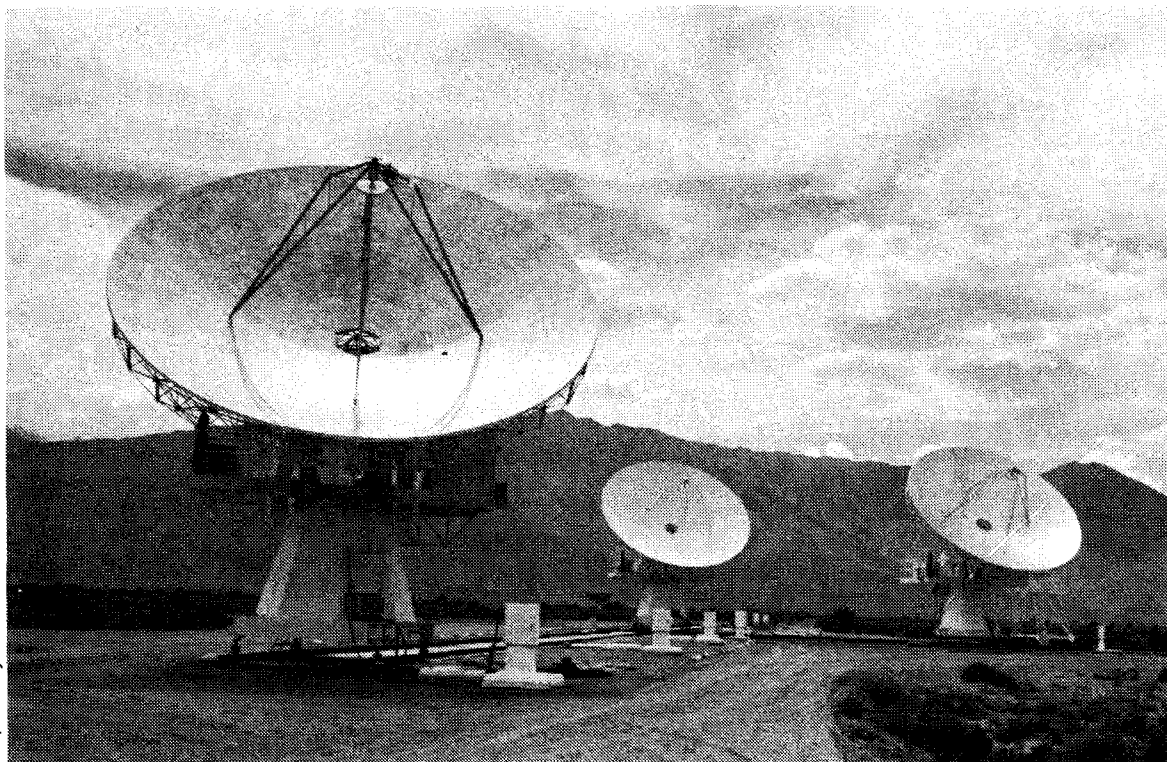
The Caltech demonstrators had different opinions on the disinvestment and divestiture issues. Rajeev Krishnamoorthy, junior in electrical engineering, felt that divestiture alone would not accomplish much. He went so far as to say that the American companies should pull out of South Africa altogether.

While Mr. Krishnamoorthy would like to see Caltech divest itself of stock in companies doing business in South Africa, Mike Chwe said that Caltech has no policy towards that country. Mr. Chwe had talked with Henry Tanner, Assistant Treasurer and Assistant Secretary to the Board of Trustees, about the issue last Tuesday. Mr. Chwe was advised that since Caltech has tax-exempt status as a public charity, the prudent man rule applies: only financial considerations can be applied in making investments.

Mr. Chwe feels that Caltech can't remain completely neutral on the apartheid issue. He said Mr. Tanner was reluctant to discuss the effects of a move towards divestiture on research funds granted by companies with plants in South Africa.

In an interview with this newspaper last Tuesday, Castor Fu

continued on page 6



NEW MILLIMETER-WAVE ARRAY AT OWENS VALLEY RADIO OBSERVATORY

Party for New Telescopes

by Ali Moosetafa

If one looks at observatories in America, a sort of pattern emerges. There are the big national observatories: Kit Peak National Observatory, with its optical and solar telescopes, the National Radio Astronomy Observatory, etc. And then there are the observatories owned and operated by a small science and engineering school in Pasadena: Mount Palomar, Big Bear Solar Observatory, and Owens Valley Radio Observatory. One of Caltech's great strengths is its outstanding astronomical research facilities, just as good, if not sometimes better, than the national ones.

Tomorrow, 4 May, Caltech adds another instrument to its collection. At the Owens Valley Radio Observatory, Caltech and the National Science Foundation will dedicate a new millimeter-wave array. The three 10.4 meter dishes were designed by Prof. Robert Leighton, while the interferometric array itself was the brainchild of Prof. Alan Moffet. Besides highly accurate dishes, the telescope has new detectors, designed by Prof. Thomas Phillips and others at Caltech, along with R.E. Miller at Bell Labs, which can detect temperature variations of less than one one-thousandth of a degree.

The individual telescopes are mounted on a T-shaped railroad track and can be deployed up to 300 meters apart, giving the same resolution as would a 300 meter dish. As well as being a self-contained interferometer, the new array can also take part with other telescopes around the world in Very Long Baseline Interferometry (VLBI), with baselines of thousands of miles. Up to now, VLBI observations have only been made at centimeter wavelengths; now millimeter observations can also be made at very high resolution.

continued on page 7

Benner to Speak at Tech

by Hossein Mohammad

Michael Benner, one of the nation's brightest and most articulate young radio journalists and a leader in the human potential movement, will come to Caltech this Wednesday, May 8, to speak on accelerated learning techniques, in Baxter Lecture Hall at 8:00 pm.

"The difference between education and transformation is that education is moving and developing forward; transformation is rocketing forward," says Michael Benner. It is this process of rocketing forward in personal development and growth that Mr. Benner will discuss in his address.

Michael Benner hosts two weekly radio talk shows and does regular news commentary on KLOS. Occasionally, he appears on the Los Angeles-based national talk-show radio KABC. At KLOS, his audience is mainly young, college-age people, whose problems and aspirations Benner appreciates and understands.

Benner is known both for his very non-conventional, independent politics and his authoritative views on human development potential. Both of these subjects he discusses and argues for in an extremely articulate manner which

makes listening to him an experience in itself. His Caltech talk, however, will not deal with politics extensively.

Accelerated learning is not a new subject. Many "movements" in the United States have dealt with various aspects of it (memory enhancement, speed reading, etc.) and other facets of the human potentials. Many of these programs promise personal fulfillment, growth, success, and happiness through practice of certain physical and/or mental techniques. Over the years, Michael Benner has examined

continued on page 3

Social Notes

by Sam Wang

There will be a bus for those of you who have Disneyland tickets but don't have a ride to get there. It will be leaving Tech from the Ath parking lot on Hill at 10 am on Sunday. The bus will leave Disneyland to return here at 5 pm. If you need transportation, be at the bus on Sunday morning! Also, if you don't have a ticket, you can buy one at the gate for \$9 if you bring along a discount flyer, available only today at the Caltech Y.

Signups for the ASCIT formal come down next Friday, May 10th, so hurry and sign up before it's too late! The formal will begin with cocktails at 6:30, continue with dinner in the main dining room at 7:30, and have dancing from 8:30 to midnight. This year's may be the best attended one ever (no kidding!), so don't miss out on it.

There will be two drinks for each couple during cocktail hour, with a cash bar for those who would like more. The main entree is coulbiac of salmon, one of the Athenaeum's specialties; a vegetarian plate is available to those who request it. For dessert will be the box of chocolate topped with fresh strawberries. These are among the finest that the Athenaeum has to offer. House wine will be served, but a wine list is available for the selection of a special wine for individual tables.

After dinner guests at the formal can dance to the music of Restless, a top-40 band which has performed at Caltech before.

Good tuxedo and floral discounts are available for this event—read more about this in the advertisements on page 4.

Those who have a preference for tablemates on May 24 have the option of reserving a table for eight or ten. Any special seating arrangements or special wines requested should be mentioned to me by May 17. Payment, however, of \$38 per couple, must be made by May 10 to your house social team.

Have any questions about this year's formal? I'll be happy to answer them—just give me a ring at 578-9768.

SURFs Awarded In Memoriam

by Hisaho Sonoda

The 121 recipients of the 1985 SURF grants were announced on 12 April. They were chosen from among the 133 proposals reaching the SURF office after the weak proposals had been screened by the faculty.

"As far as we can tell," says Fred Shair, Chairman of the SURF Administrative Committee, "it's the strongest applicant pool to date." The strength of the students is indicated by their GPA's. 28 of the 69 junior applicants and 23 of the sophomore applicants had GPA's of 3.5 or above. Also applying for SURF grants were 2 fifth-year students and 21

freshmen. "Unfortunately, we still were forced to turn down several good proposals," says Shair.

This year \$390,000 was raised to support the 1985 SURFs. Contributors consisted of 12 individuals, 7 corporations, the Alumni Association, the Carnation Prize fund, the College Work Study Program, and the Caltech faculty and JPL staff. Shair adds: "In addition to the Caltech Administration, I'd like to thank seven people without whose help the program would not have been successful; these people are Carolyn Merkel, Ed Baum, Don Browning, Ed Posner, Geoffrey Fox, Terry Cole, and Stan Bordinsky."

Greg Jordan, a former Caltech undergraduate and an Associate Computing Analyst at Caltech's Computing Support Services, died on Tuesday, April 30, 1985. He entered Caltech as a freshman in Dabney in 1977, and was on a medical leave of absence from the Institute when he died.

While a student, Jordan participated in many campus activities, from TACIT to the Caltech Wind Ensemble. He majored in Engineering. Funeral services will be held Sunday in Tustin.



Fleming: The Untold Story

To the Editor:

What's happened to Fleming House? I must commend Frank Kragh, Fleming House president, (I don't know why he didn't admit it) on his letter exposing the inconsistencies of the last two IHC decisions. I am grateful to now be fully aware of the state of affairs in the IHC.

Frank, I don't believe that your (or the Flems) motives are quite so honorable. At least I now know why some Flems have been acting so strange for the past few weeks.

I'm not surprised that the Flems objected to Jeff Lester playing Interhouse basketball for Blacker House. Earlier this year the Moles came very close to beating the Flems in Discobolus basketball and the addition of Jeff to the Blacker team made it more probable that the Moles could beat the Flems. (We lost. It was a good game, but we got beat.) Why did Jeff want to play for Blacker, anyway? He's a Darb.

At the beginning of the term Dabney's ath-man said we weren't going to play Interhouse basketball. When word got out it seemed that Jeff and I became free agents. (Jeff more than I, because he's a lot better.) Various and sundry ath-men and house members hinted, asked, cajoled, and pleaded that we play for their house. (Except for the Scurves.) A few Flems also hinted

(strongly) that we play for Fleming. After a moment of silence and incredulous staring at the Flems who were hinting, Jeff said, "I don't think so," and I laughed.

I was already a social Mole and figured I'd play for Blacker. I asked Jeff if he wanted to also, but he initially refused because if he played someone else wouldn't get to play. I asked the Blacker ath-men and they said there was no problem with Blacker, but that there would be with the IHC since it was after April 5. Hence the scandal. It seems inconsistent to me that some Flems should want Jeff to play for Fleming and others get upset when he wants to play for someone else.

The other incident Frank brings up is even more incredible. Can it be? For the first time in history the Flems defended Dabney in an IHC meeting. Frank says that Dabney's challenge was 13 minutes late. It was really one week early. (Let's not confuse the issue with facts.) Dabney's challenge was oral. They are supposed to be written. A written challenge was submitted by Ruddock (on time) in softball. Ruddock was the softball champion in Interhouse softball and had already beaten the Flems. Dabney challenged in basketball. Due to the first ruling, neither Jeff nor I could play basketball for Dabney. The Flems knew this. Complaining to

the IHC so they could have an easy Discobolus win, instead of having to earn it, seems pretty sorry to me. Taking advantage of the rules to arrange a win is not quite fair.

When I was a frosh rotating through the houses I too wanted to be a Flem. Gasp! One of the reasons was the Flems I met during the summer when I was in the SSP program were cool. (I won't talk about Flems I met later.) They pointed out to me a plaque over their lounge door that says, "Let the Deed Shaw." (Don't ask me, it's their sign.) I was told that Fleming was the best house and would take on all challengers. Well, I guess their latest deeds shaw all we need to see.

The Flems ended up winning both games. Why did they go to all the trouble of ranting and raving before the IHC? Why not just tighten the belt up a notch, get down to business, and quit yer goddam bitchin', monkey boys?

Fleming might be best expressed in that quaint yet irreverent saying:

Fleming House, where the men are men, the women are men, and the sheep are afraid.

Lately I think it should be:

Fleming House, where the women are men, the sheep are men, and the men are afraid.

—Steve Gomez
317 S. Holliston

P.S.—I submit this letter alone. It does not necessarily reflect the views of everybody else in general, although I suspect it does.

Catalog Rule Unjustified?

To the Editor:

A new rule has crept unannounced into this year's Caltech catalog. This rule does not appear in any catalog prior to this year's—at least, I can't find it in any catalog published since 1977.

The new rule reads as follows (it may be found on page 67 of the current catalog):

An 'F', once recorded, will be changed only on the basis of error. Such a change will only be made with the approval of the Undergraduate Academic Standards and Honors Committee or of the Graduate Studies Committee, whichever has jurisdiction.

I must confess a certain lack of understanding of this rule: I can conceive of no justification for this rule in a community based on trust and mutual respect. Much of my confusion stems from the belief, that if both the student and the instructor agree that a grade should be changed, then that grade should be changed.

For these reasons I am circulating two petitions: one whose object is to remove or rephrase the above mentioned rule; and a second, circulated in the interest of fairness, which asks that the rule not be changed. If you agree or if

you disagree with the position I have stated here, either send me a note (my mail code is 1-59), or sign a copy of one of the petitions (copies are in all seven of the student houses, in the Y office, and in other prominent locations on campus). Petitions will be collected in two weeks, and copies will be sent to the President, the chairman of the faculty, the chairmen of various divisions and the chairmen of various committees.

Thank you,

—Fritz Nordby

Jim de Witt Does Not Exist!

Buckroy,

I wanna tell ya I'm gonna squeeze yer head by th' back o' th' neck like this, y' see, till yer brains pop out 'n' sticks t' th' ceiling. Th' way them ping-pong balls shoots 'cross them bars back there in Bangkok. Back in Rangoon we used t' take guys like you 'n' hang im up t' th' tree with this wire, see, 'n' cuts off 'is balls, then we'd bring 'em back to th' boys 'n' laugh at how small they are! 'n' you sh'd see hows we took care of yer kind back in Maniller! Sheeeit. Hunderd 'n' sixty lil pregnant wimmin in south east Asia 'l tell ya I exists. No point tryin a worry me wether's true I'm here er not. Autta clean you like them fish in Alasker. Don't git me rong now, I ain't mad atcha 'er nothin. I'm jus talkin' strait. 'n' if'n y' gotcher haircut maybe th' old boys 'd respect y' mores.

—Jim de Witt

Ars Amoral?

To the Editor:

Am I the only person who has noticed that all of Charles Barrett's articles have started out raising various questions about the morality and sexual degradation of our society, and then proceeded to conclude that since there are no clear cut solutions that everyone can agree upon, we are all free to create our own individual moralities to deal with them?

Barrett argues that since "the line separating pornography from art is a thin one, often difficult to discern" then we are all free to, perhaps, even encouraged to erase that line altogether. Frankly, I would dread to live in a society where man was allowed to justify his actions to the community by showing they were acceptable to him personally. If such were the case we would have to live in a society where the Nazis would not have been tried at Nuremberg [sic], but actually commended for creative expression of their "personal belief" that the millions of Jews they murdered were "less than human".

Sure there are no clear cut solutions! No matter what anyone says there will be disagreement. But the solution is not to cease addressing the problem as a problem. If we redefine our outlook on these questions of morality and sexuality by personally rationalizing our own points of view, then the problem has not disappeared—the problem has now become us!

Sincerely,

—Robert Anderson
Keck, 1-86

Charles Barrett replies:

The Nazis, of course, imposed their personal belief on those around them. Central to last week's column was the point that no one should be exposed to explicit pornography against their will. Mr. Anderson states that there are no clear cut solutions, but seems to want to abridge the unalienable rights of what others do in private to achieve his goals.

As far as private acts that do not impose on others are concerned, there is no need for "personally rationalizing" anything.

The Caltech Y Fly-by

Saturday... May 4

"The Beggar's Opera" at the Embassy Theater in Los Angeles. Performance starts at 2:00 PM. The Y-Car leaves at 1:00.

Sunday... May 5

It's the Disneyland trip! If you haven't picked up your tickets from the Y yet, do so by 5 PM Friday. Disneyland's open from 9:00 AM to 10:00 PM.

Wednesday... May 8

Noon Update— Dr. William Goddard III, "Theory: Seeing Chemistry in Action." Winnett Clubroom #1, at 12 noon. Bring a friend and some lunch.

"Ethics and Biology." Professor Gunther Stent from UC Berkeley will lead a discussion in Winnett Lounge, starting at 8 PM.

Also at 8:00 PM, KLOS very political commentator and talk-show host Michael Brenner will speak about young people's potentials in politics. Baxter Lecture Hall.

Friday... May 10

Noon Concert— The cast from Oxy's production of "Godspell" will perform excerpts from the play. Lunchtime, on the Quad.

Saturday... May 11

Another sailing trip— Possibly the last this spring. Join Skipper Don Skelton for a day of sailing around Anacapa Island, just off Santa Barbara. The trip leaves around 7:30 Saturday morning and will get back in late afternoon or early evening. The cost is \$9 per person. Sign up in the Y by Wednesday, May 8th.

The Y has tickets to the Dodgers-Pirates game. Reserved seats, so the tickets are \$5. Game time is 1:05 PM. Y-Car leaves by 12:20 PM. Sign up by Wednesday, May 8th. Next game: L.A. vs Montreal, June 1st.

Any comments, questions, or ideas? Stop in the Y office, or call 356-6163

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THE CALIFORNIA TECH

Volume LXXXVI Number 26
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Benner on Accelerated Learning

from page 1
ed and studied nearly all of these programs (through practice and participation) in an effort to extract the essence of their teachings.

Benner's opinion of these commercial, "brand-name" movements and programs — ranging in scope from speed reading classes to yoga, self-hypnosis, TM, Biofeedback, and many others—is two-folds. On one hand, he maintains that one should not underscore the benefits and successes of many of them. On the other hand, he believes that those successes are due to a set of principles and essential elements that all these movements share and draw from. These principles are very human and natural, have been known for ages, and are independent of the organizations that market human development programs built around the principles.

Benner states that creativity can be trained. We can train ourselves

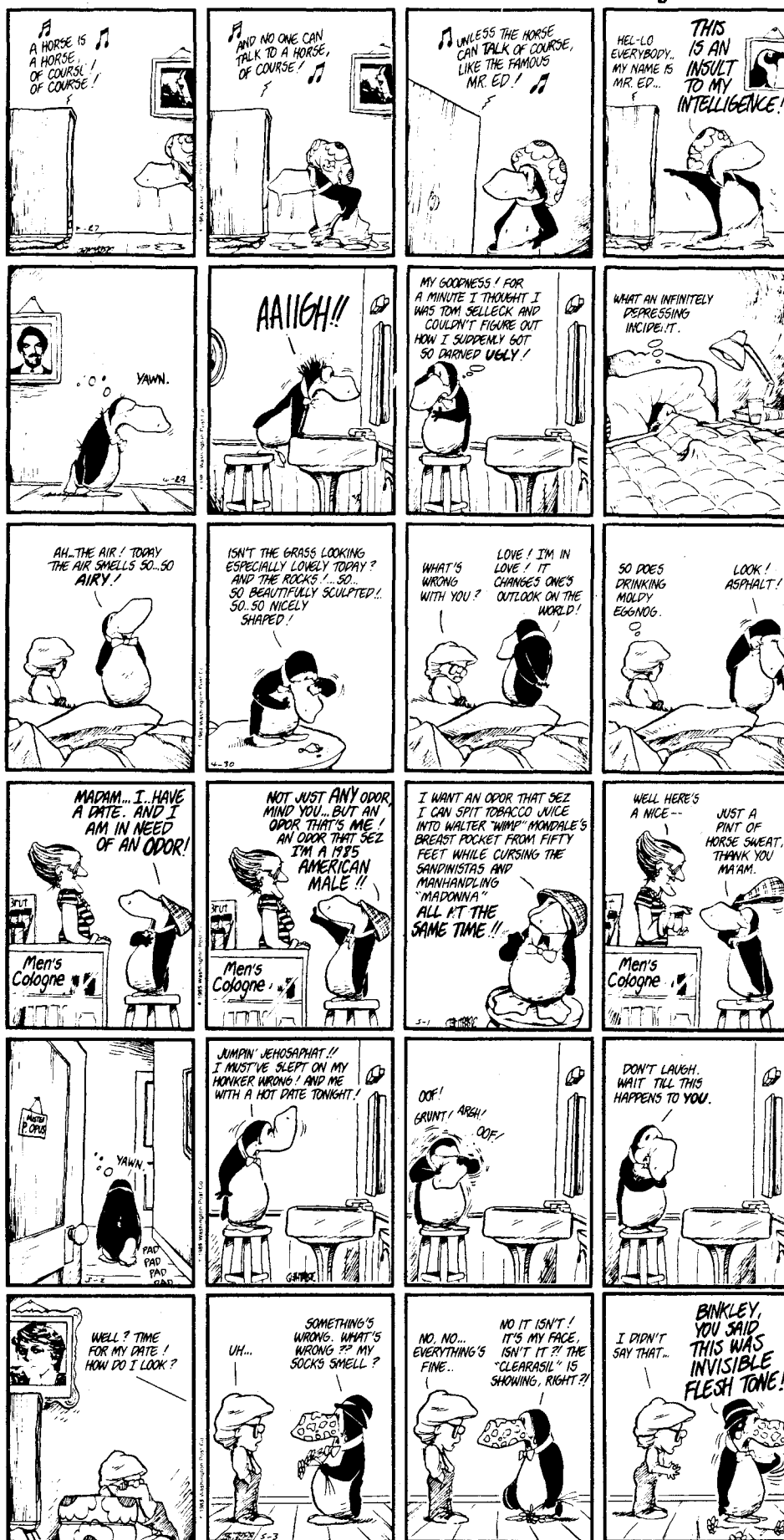
to learn faster, expand our awareness, and become more effective problem solvers in both academics and our social lives. He discusses the feeling of powerlessness held by many of the young people today and offers solutions out of it, always emphasizing the importance of objectivity, independence, and a critical viewing of the techniques he or any one else offers.

Michael Benner is a very effective and challenging speaker that backs his non-conventional views with a strikingly sharp line of logic and clear examples. His lectures are uplifting, positive, and deeply thought provoking. Do not miss it.

The Caltech Y, which is bringing the speaker to campus, is sponsoring an informal get-together with Mr. Benner at the Red Door Cafe following his talk Wednesday night. If you are interested in attending, contact the Y office before Wednesday.

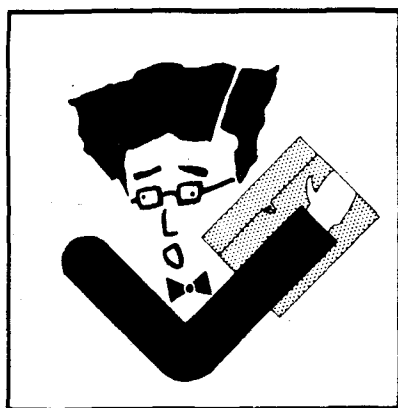
BLOOM COUNTY

by Berke Breathed



continued on page 4

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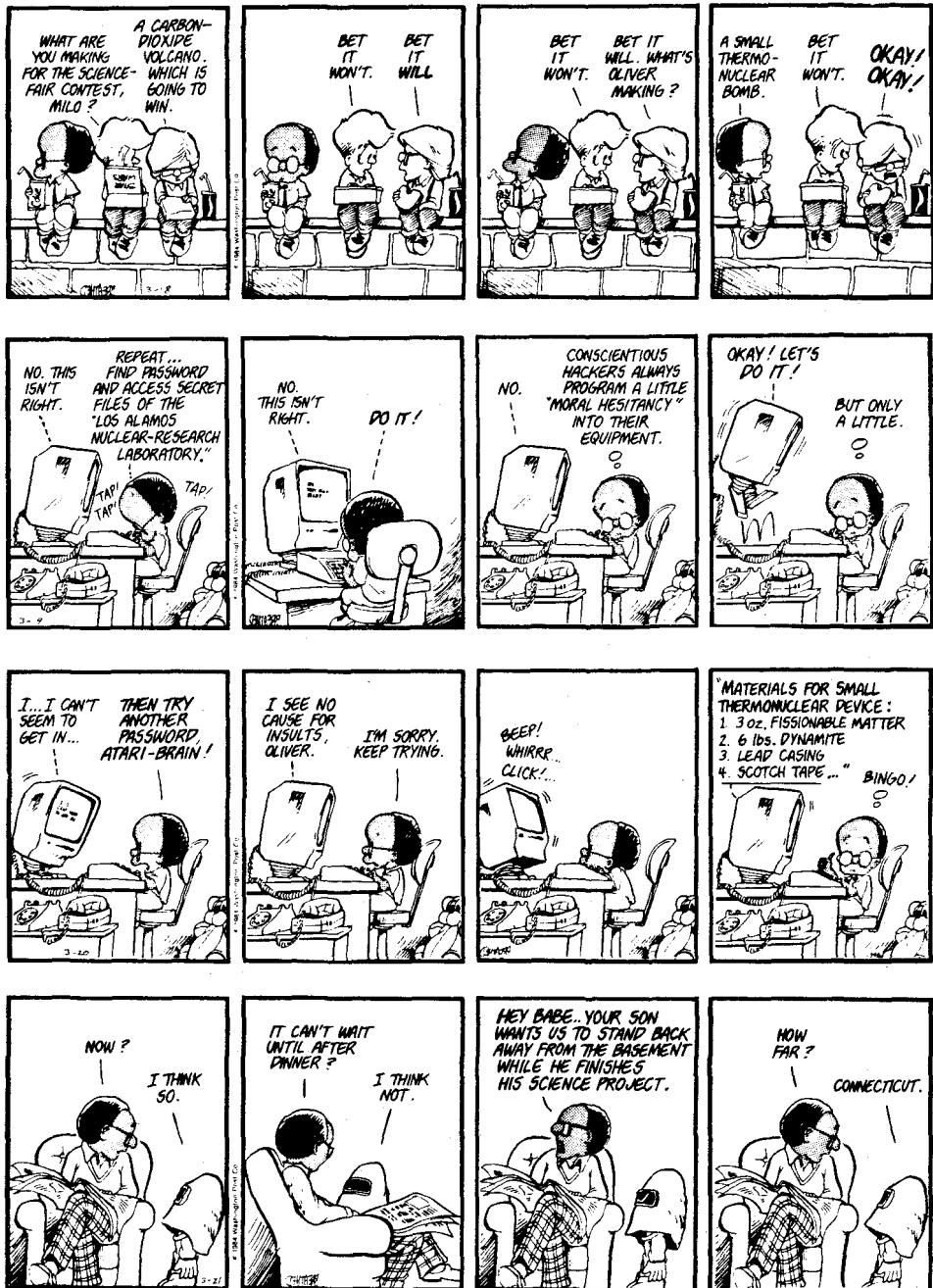
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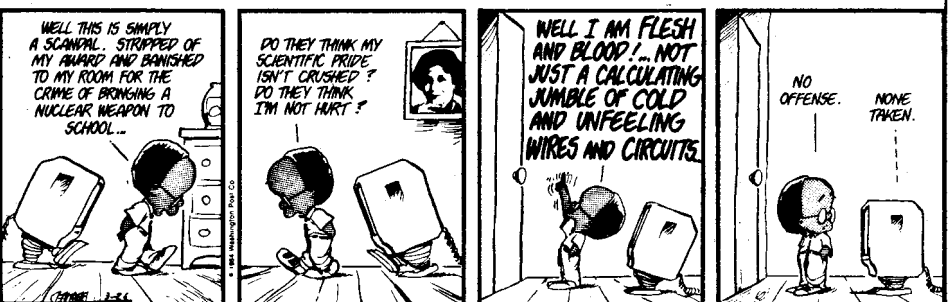
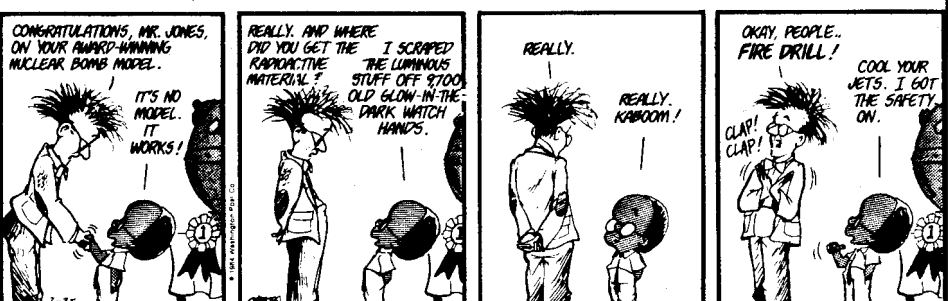
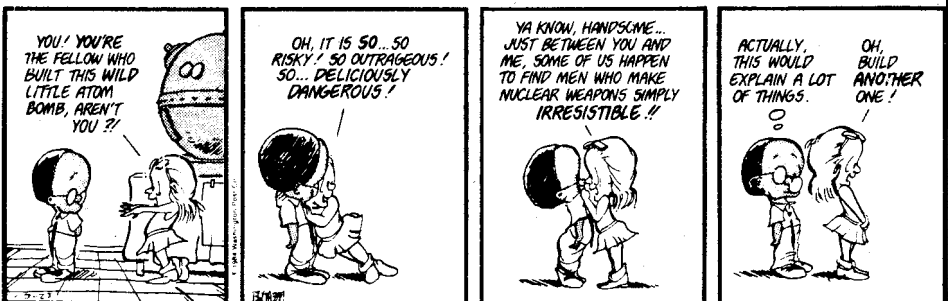
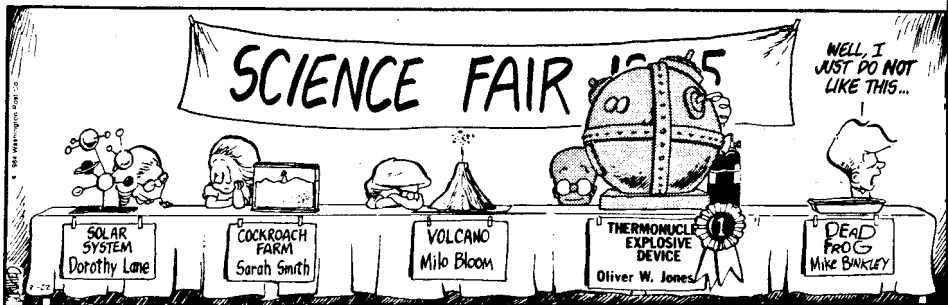
BLOOM COUNTY

from page 3

... Things look bad for our heroes. Meanwhile, back during Spring Break, Nedbert and D'Ching conspire to have Consuela's hair spiked. But here are the Bloom Countys we would have run:



the Caltech cy



Sponsored by

Lost in America

by John Fourkas
Lost in America
Directed by Albert Brooks
A Geffen Company Release

Recent times have seen a resurgence of the "finding oneself" genre of movies (Stranger Than Paradise, for example) that most of us thought had died with Easy Rider. In the face of this revival, it seemed high time that somebody do a spoof of this sort of film. This somebody turned out to be Albert Brooks, and his spoof is Lost in America.

Lost in America begins with a starry night (one assumes) in the suburbs. Albert Brooks plays a high-salaried advertising agency man who is sick with worry and won't let his wife (Julie Hagerty) go to sleep. Brooks is expecting a big, life-changing promotion the next day, and can't handle the strain. When his boss informs him the next day that Brooks has won a transfer to New York instead of a promotion, Brooks flips out. He tells off his boss, quits his job, and decides that it is high time to see America. His wife quits her job, they sell their house, buy a motor home, and take off to roam the country. Lost in America is a chronicle of this journey, in which Brooks and Hagerty attempt to "find themselves."

Brooks, in the movie, idolizes Easy Rider. He comes off more

like the character in Simon and Garfunkel's "America"—a bit silly, but too naive to notice or to care. Indeed, if Lost in America has a major problem it is this very naivete. Brooks comes across as too naive to be believable, and yet too serious to be incredibly funny. This is often a problem with "serious comedies," and Brooks has not learned to deal with it as well as other directors in the area (Woody Allen, for example). If the main character is too pathetic without being comical enough, the audience may feel guilty in laughing. This is often the case in Lost in America. It takes careful planning and execution to turn out a "charming" piece of serious comedy (America is a good example of this), and Brooks is not fully up to the challenge.

All of this is not to say that Lost in America is a poor film; it is far from that. When Brooks is hot, he's hot. A few scenes in the movie (such as Brooks' confrontation with his boss) rival Woody Allen's best. Brooks' characters are at their best when they are not entirely believable, so that one is willing to laugh without any twinges of guilt or pity. When Brooks asks the audience to stretch their imaginations, things get hilarious quickly. These instances make Lost in America well worth the price; just be prepared to be forced to think a little bit...

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BUCKAROO REVIEWS

A HIGHLY IRREGULAR COLUMN BY SAM BINKMANIA
MATT ROWE**Southern Accents**
Tom Petty & the Heartbreakers
MCA/Backstreet Records

Southern Accents sounds like a compilation of tracks from two different albums. Four songs—including the hit single "Don't Come Around Here No More"—are heavy on synthesizer and R&B touches; three of them are co-written and co-produced by Petty and Dave Stewart of Eurythmics (whose new album, *Be Yourself Tonight*, will be raved about soon in this space). *Southern Accents'* other five songs are classic Heartbreakers: from the opener, "Rebel," to the closer "The Best of Everything," the band is at the top of its form—with a little dash of drawl to go with the supposedly unifying concept behind (hidden behind?) the title.

Unfortunately, these two very different styles of music are not relegated to one side each: they are disconcertingly interwoven in an attempt to unify the album. This has given many critics cause to call the album "uneven" or "a failed concept album." For me it is, as a whole, uneven—but the two half-albums that make up *Southern Accents* are, separately, consistent in their brilliance.

The collaborations with Dave Stewart (along with the song "Mary's New Car," similarly arranged and produced) seem destined to be the more popular cuts on the album. "Don't Come Around Here No More" (already high in the charts) is unfailingly original—from Stewart's sitar introduction, the chorus shouts of "Hey!", and Petty's sly, weatherbeaten vocals to the sheer pop genius of the song's final acceleration and fadeout. (The video is equally original—and very funny.) "Make It Better (Forget About Me)" busts open Side Two with a funky rhythm guitar, an upbeat, danceable melody, horns, horns, and more horns, and the most likeable whine of a vocal this side of Memphis. "It Ain't Nothin' to Me" recalls many tracks from *Sweet Dreams* and *Touch*, while "Mary's New Car" is more of an experiment—a potential rocker

subtly arranged around a sax, synth drums, and vibraphone.

The cover of *Southern Accents* is Winslow Homer's 1865 painting "The Veteran in a New Field." These four songs help explain that—but they don't do it justice. As they are presented here, they are more of an intrusion. Granted, it is usually a welcome intrusion (especially with "Don't Come Around Here"), but it distracts from the real meat of the album—the half-finished exploration suggested by the title.

Tom Petty and the Heartbreakers come from Gainesville, Florida, and while their hit singles are most often heard coming from a radio, the other five songs on *Southern Accents* won't let us forget the band's real roots. "Rebels" introduces us to some of the basics of Petty's vision of the South: "I was born a rebel, down in Dixie/On a Sunday mornin'/ Yeah with one foot in the grave/ And one foot on the pedal, I was born a rebel." It is a powerful and memorable song, both in idea and execution—destined to join the ranks of Petty's many classic anthems.

The album's closing track, "The Best of Everything," also sounds the way its lyrics read. It is a straight love song, played with all the feeling (and all the horns) the band could find. "Dogs on the Run" is the most reminiscent of "Refugee," "The Waiting," and "Don't Do Me Like That." Petty's most popular singles. "Spike" is a laid-back anti-redneck dare, subtly but insistently propelled by Benmont Tench's keyboards and Mike Campbell's slide guitar:

Oh, we got another one, just like the other ones

*Another bad ass, another trouble-maker
I'm scared, ain't you boys scared?*

I wonder if he's gonna show us what bad is?

*Boys, we gotta man with a dog collar on
You think we oughta' throw ol' Spike a bone?*

"Southern Accents" is the thematic counterpart to "Rebels," and properly it should finish Side Two, not Side One. Piano, percussion and strings back vocals lovingly, praising the traditions Petty so

insistently defends in the earlier track.

If you were to rearrange the songs on *Southern Accents*, you would have the better half of perhaps Petty's best album paired with an uneven experiment with synthesizers. As the songs are organized, the whole product is uneven. (The production hardly is. Petty, with the assistance of longtime collaborator Jimmy Iovine (*Lone Justice*) and the conspicuous male Eurythmic, gives the album a clear, bright, and simultaneously *hard* sound that is both professional and personal.) So what is my conclusion?

Well, if you don't buy the album, all you'll hear is "Don't Come Around Here No More"—one of *Southern Accents'* best, granted, but you'll be missing a lot, too. And if you do buy it, chances are you'll be disappointed with the whole. There are many great songs here, but *Southern Accents* is not really a classic album. I personally like it a lot—but then my tastes are eclectic, to say the least. So is *Southern Accents*.

ASCIT Movie

Pauline at the Beach
Directed by Eric Rohmer
ASCIT Movie

Look, I've completely forgotten the names of the stars and stuff like that, and I only remember little bits of the plot—but *Pauline at the Beach* is a great movie. Pauline is a sixteen year old French lass whose parents have sent her to spend the summer on the beach with her friend? relative? Claudine. (I think that's her name.) Anyway, the two get mixed up in all sorts of romantic tangles with a couple of well-tanned locals, but it all ends up OK.

The plot is subtly funny—but, on deeper consideration, it's very serious. But you don't have to pay attention to that if you don't want to. What you *do* want to pay attention to is what the film *looks* like. Yeah, sure, it's beautifully acted, photographed, and all that—but the fact is, *everyone* in this movie could be a centerfold. And all the men are wearing skin-tight suits and all the women are wearing bikinis. I mean, *really!*

So, like, you should all go see it tonight. 'S fun. I've done it before.



Barrett and Smith

by Nick Smith

On Saturday, May 4th at 8 pm in Ramo Auditorium, The Caltech Folk Music Society will present its grand finale concert: Ruth Barrett and Cynthia Smith.

Grand finale? Yes. More on that later. Now, about the concert itself:

Ruth Barrett and Cynthia Smith are two of America's foremost dulcimer players. They are also very good singers and songwriters, presenting a variety of traditional and contemporary folk music. In addition, this time they will be accompanied by the musicians who backed them up on their most recent album. This gives an added depth to their music, and proves to be very interesting. Normally, the duo perform without other accompaniment, as in their concert appearances at McCabe's and the Renaissance Faire.

The dulcimer may be an unfamiliar instrument to you. Basically, a dulcimer is to an autoharp what a harpsichord is to a Casio keyboard: a lot prettier to hear but a lot harder to play. It sounds a little bit like someone strumming a whole bunch of little tiny guitars (I told you it was unfamiliar). Anyway, *good* dulcimer music is very good. Barrett and Smith are very good.

When Barrett and Smith appeared here at Caltech a couple of years ago, they sold out the Caltech

Folk Music Society's original venue, Winnett Center. This time, Ramo Auditorium was chosen, a better stage for a (hopefully) more comfortable audience to view. In their previous appearance they sang songs ranging from their own revisionist Renaissance music to a song that is alternately claimed as a religious hymn and a pagan revival song ("Lord of the Dance", if you're curious).

Ruth Barrett and Cynthia Smith are well worth seeing if you have Saturday evening free, or can rearrange your schedule a bit. Tickets range from \$6.50 to \$8.50, but the higher-priced seats are probably about gone by now. The advantage of Ramo is that the cheaper ones aren't all that far from the stage, and should be good enough for a concert.

Oh, yes, about the Grand Finale part. It seems that Brian Toby has decided to sell out and actually try to get his degree. Once this is accomplished, he will be leaving beautiful downtown Pasadena for the wilds of free enterprise. This leaves the Caltech Folk Music Society without a guiding light, a sense of continuity, or a sucker to do all the work. Brian hopes that a successor organization will materialize, but until that time, another entertainment opportunity may have bitten the dust.



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LIFE'S little NECESSITIES

2001—Need we say any more? Playing with *Forbidden Planet* (a classic in its own right). Rialto Theatre, South Pasadena. Fri. May 3, Sat. May 4. 7:00 Fri., 2:00 and 7:00 Sat. (FP 9:40; 5:00 & 9:40)

Sailing Through Holland—Another Armchair Adventure. Narrated by Chris Borden. Make sure your cushion floats. . . . Beckman Auditorium. Fri. May 3. 8:00 pm. \$6.50, \$5.25; students \$5.25, \$4.50. Rush tickets \$5.00

Ruth Barrett and Cynthia Smith—"An Evening of Fretted Dulcimer Artistry" See article above.

Leontyne Price—A must for opera fans. Ambassador Auditorium. Sat. May 4. 8:30 pm. Sold out, but it's the thought that counts. . . . [No, it isn't, John—Ed.]

Stolen Kisses—More Truffaut. Monica Theatre, Santa Monica. Sat. May 4, Sun. May 5. \$4.50

Margaret Thornhill & James Boyk—Music for clarinet and piano. Dabney Lounge. Sun. May 5. 2:30 pm. FREE.

Mr. Roberts & Twelve Angry Men—Henry Fonda's very best. Rialto Theatre, South Pasadena. Thur. May 9. MR 7:00, 12AM 9:25.

Ars Amore Techmen

Two months ago in *Ars Amore* I discussed the woman's situation at Caltech, and although it was hardly controversial material it did prompt several people to contact me with comments. One criticism was that it lacked controversy; it didn't say anything that everyone doesn't already know. Another person told me she disagreed with some of my observations (which would indicate that *something* in there was controversial!)

The most common remark, however, was that I should follow up that piece with a discussion of the plight of the Caltech male. The two sets of circumstances are intertwined, after all, in any discussion of sexuality and relationships.

I put it off, fearing that if I did a broad and topical piece on the men right after having done one on the women it would look as if I was trying to wrap up the subject of relationships in a neat package. As I've said before, this column exists to discuss (and occasionally comment on) sexuality and relationships at Caltech, not to *solve* anything or provide pat answers. In a roundabout way, general awareness and open discussion *does* help to bring on change, especially with topics many are hesitant to discuss.

One thing everyone talks about, and has for decades, is the lack of feminine companionship for the male Caltech student. Before the campus went coed in the early seventies (when students referred to themselves as *Techmen* instead of *Techers*) the question was where off-campus to look for women, and what kind of personality she was likely to have if you were successful. The girls at Scripps, Oxy, and PCC all had their respective reputations for snobbishness, flightiness, plainness, and (of course) dumbness. In other words, Caltech men made sure they had plenty of excuses for being without a date.

With the addition of women to the student body, off-campus is no longer the sole recourse for those looking for a date. But going from a single-sex to a coeducational community brings along certain complications and gives rise to new problems as surely as it solves old ones.

All-male or all-female living conditions are an artifact of the past, and do not accurately reflect the real world. There are certain tensions in living and working in close quarters with the opposite sex, but it is something that we all will deal with for the rest of our lives (unless we go out of the way to avoid it), so why not start now.

Circumstances specific to Caltech serve to increase tensions beyond the level just attributable to coeducation. For one thing, even with coeducation there are still far more men than women, causing problems for both sexes. Also, the

academic pressures (and thus the need for distraction from them) are more acute here than at most other places.

College is usually considered to be a place where personal and social growth in the area of relationships and sexual awareness can occur. To be sure, it does, but too often it has to contend with the other demands on our time. Many men at Caltech arrive here better versed in academics than in adult social conduct, and they have some maturing to undergo before they can deal successfully and with confidence in a social context.

For those who had more opportunity in high school for exploring the ins and outs of relationships, the low numbers of unattached and interested women can be a terrible blow to their self-confidence and sense of attractiveness. In all likelihood it has never been quite this hard to find a girlfriend. Remaining loyal to and enthusiastic about a hometown or high school sweetheart is certainly easier in an environment where temptation is less frequent, and many Caltech men do just that (the task is somewhat more arduous for Caltech women, who are often being "tempted").

Time to commit to a relationship is a precious commodity for the Caltech student. Given the academic demands, there never seems to be enough of it to go around. For anyone trying to maintain an off-campus relationship, especially if distance entails driving time (assuming you even have a car), lack of much free time becomes one of the single biggest obstacles.

The Caltech male faces a real dilemma: on-campus relationships are hard to establish and maintain, and off-campus ones are even harder.

Of course, it doesn't help that human male sexual drive peaks in the late teens to early twenties, adding to the tension that gently pervades the atmosphere around here. Working long hours in close quarters on assignments with others in the class or in your House makes it all too easy to become infatuated with a woman friend whether or not it is in your best interests or hers (especially in the spring!)

The presence of women on campus makes them accessible enough to get yourself into trouble, finding yourself attracted whether or not the feelings are reciprocal. Rejection, even if gently put, is never much fun. Competition between men for a woman, or other variations on the love-triangle theme, can ruin friendships and give rise to anger, guilt, or frustration, further increasing tension.

Because of the small size of the student body, and especially as a result of the close-knit social structure in the Houses, on-campus relationships quickly become common

by Charles Barrett

knowledge. This feeling of being in a fishbowl, for some couples, adds additional strain. Should a relationship break up, it is soon known (and discussed) by all. Also, an ex-lover in your House is hard to get away from (unlike an off-campus lover), and even if the split was a friendly one it can be difficult to stand by and watch your ex get involved with someone else.

The pressures and frustrations of relationships at Caltech is just more fuel for the fire, and have contributed to the need for some to reevaluate their motivations and goals. Support and understanding from peers and from the administration on campus is easy to find and freely given. No one questions the fact that emotional well-being is essential for a successful academic career. The head and the heart both are, after all, parts of the same body.

Contact Charles Barrett (577-8593 or 1-59, or in care of *The California Tech*, 107-51) with comments or suggestions about this column.

Divestiture Rocks!

from page 1
outlined his plans for the demonstration group.

He said that the Wednesday noon demonstration, to be repeated every Wednesday from now on, was intended primarily to draw Caltech students' attention to the system of apartheid. He expressed concern that everyone was too involved in studies to examine and act on his or her conscience, emphasizing that this type of activity takes very little time.

Divestiture from companies is not necessarily a good idea, he asserted, and it's only a morally satisfying action. Drawing a line would be a problem, he suggested, since next, everyone would be calling for a boycott of the companies' products.

Mr. Fu did, however, admit that America's only real leverage with South Africa is economic.

Mr. Fu was of the opinion that non-confrontational appeals to the corporations and the Caltech trustees can be more productive; you cannot categorize the manage-


ment of these companies as "oppressors". Appealing to their good conscience can be more constructive.

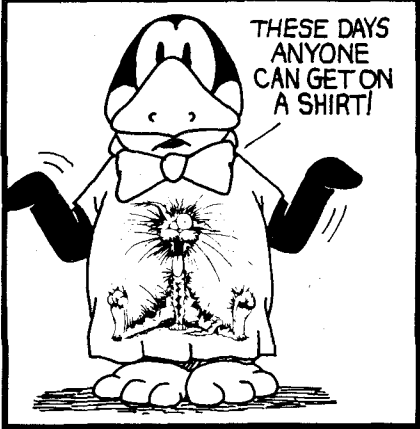
He laid out a condition, however: that Caltech shouldn't invest in companies that don't abide by the "Sullivan Principles." These principles were developed in 1978 by the Rev. Leon H. Sullivan of General Motors. They include equal employment opportunities for all races and efforts to improve the quality of the workers' lives away from their jobs.


Mr. Fu went on to say that, rather than divest, Caltech should use its influence with those companies: "a company with holdings in South Africa isn't necessarily bad, but may even be good."


He said they may conduct letter writing campaigns on behalf of political prisoners in South Africa.

As for the near future, they have planned a demonstration for next Monday, May 6, at noon to coincide with the Caltech trustees' meeting. Another demonstration will take place, again at noon, on Wednesday, May 8.










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The Inside World

Blacker: Some excerpts from last week's Blacker Invitational Lecture Tournament / Numismatist Society meeting:

"The object of this supposed espionage dance is to initiate fear and panic amongst your teammates by running ahead and stealing the clues while everyone sits around and points fingers at everyone else..."

"...and in order to successfully complete a round, the entire auditorium must be filled to the top with little yellow dicks..."

"So, in summation, we can conclude that prior to painting the walls in the student dormitories, all of the doors must be covered with large sheets and duct tape..."

"...and so in just two short weeks Paul Shafer, the band, and myself ['I', you mean —Ed.] will be heading for a fun-filled week of college party life at ...uh...at...Cal...Cal Poly? Where was that Paul?"

—My Sharon

OVRO Party Tomorrow

from page 1

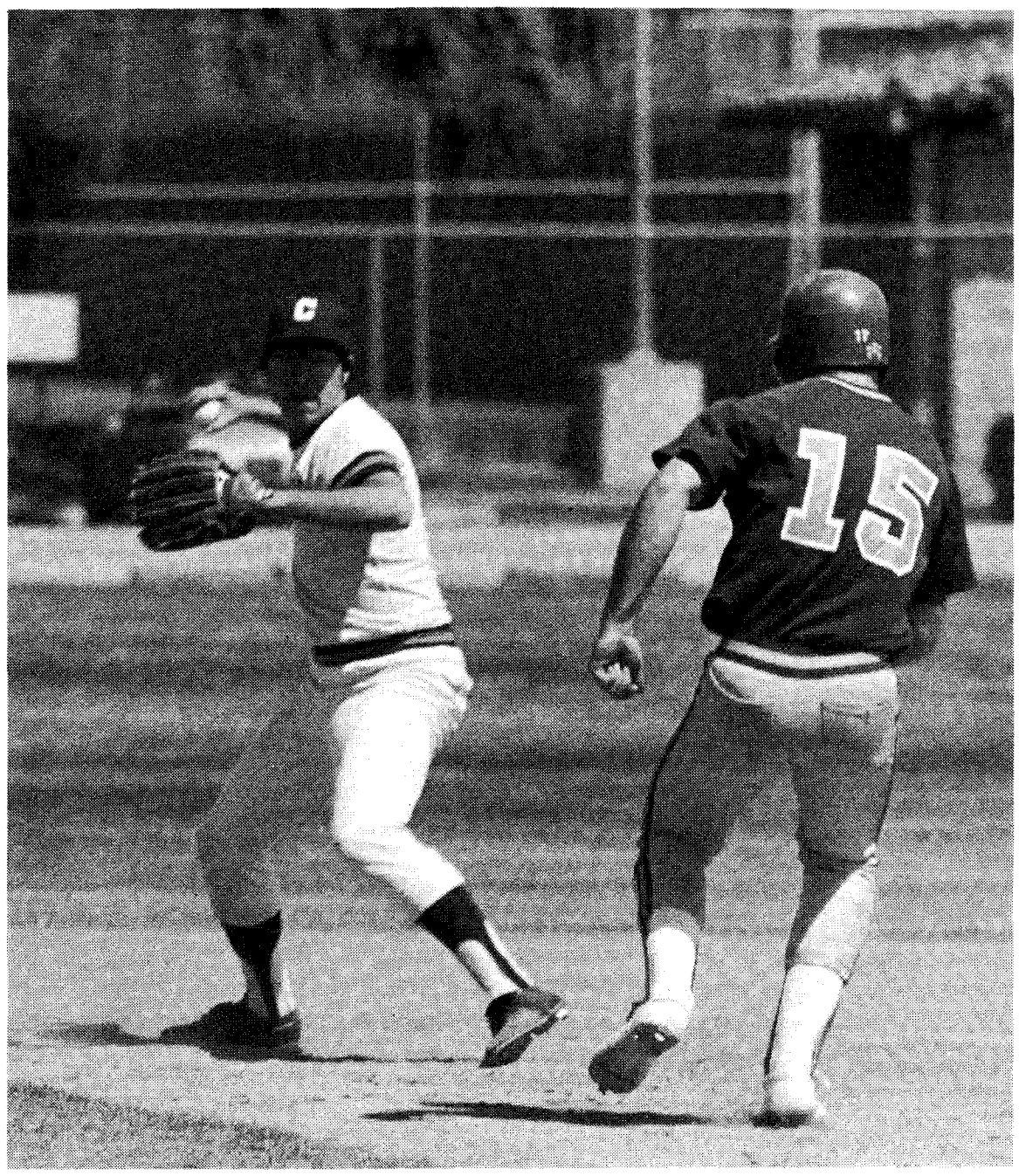
Millimeter-wave astronomy concerns itself mainly with molecular spectral lines, such as the lowest rotational state of carbon monoxide at 2.6 mm. Thus, astronomers use these measurements to map out interstellar clouds in our Galaxy and in other galaxies. As Prof. Anthony Readhead says, "The millimeter band... is an extraordinarily rich field; many different type of molecules that radiate at these frequencies are found in abundance in interstellar space, especially in regions around newly-born stars."

Star formation is an area of active research in astronomy, and, as Prof. Nicholas Scoville says, "From these efforts, we expect to learn how interstellar dust clouds collapse to form new stars in stellar nurseries. The highly detailed images produced by this interferometer will permit us to see for the first time proto-solar systems in nearby star formation-clouds."

Everybody who is anybody will be at the dedication ceremony. President Goldberger, Caltech Trustee Shirley M. Hufstедler, Anthony Readhead, the Director of OVRO, and Laura P. Bautz, the Director of the NSF's Division of Astronomical Sciences, will all give speeches in honor of the new telescope. This array, which was funded by the NSF, is a very important addition to Caltech's astronomical research facilities, although the expressed interest of at least one physics professor was the beer that would accompany the ceremony.

And if that isn't enough, a sub-millimeter telescope, also designed by Robert Leighton, will be installed in its new home on Mauna Kea in Hawaii sometime late this year. It's the giant red and silver thing that grew out behind the gym. And just wait for the 10-meter optical telescope, brought to you by Caltech, UC Berkeley, and the Keck Foundation, coming to a volcano near you sometime late this century.

SPORTS



—photo by Min Su Yun

SECOND BASEMAN KEN LIN TURNS A DOUBLE-PLAY IN THE GAME SATURDAY AGAINST CLAREMONT. ALTHOUGH CALTECH LOST BOTH GAMES OF THE DOUBLE-HEADER, BEAVERS PLAYED TOUGH AND EARNED RESPECT.

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Fuzzballers Dust Someone-or-Other

by Over Head

For the third match in a row the Caltech Tennis Team "dusted" (thank you Ted George) their opposition 6-3. Led by Brian Porter, Sung Kim and Rajiv "I played lousy" Sahney, the fuzzies seem to

be unstoppable. With the league tournament this Friday and Saturday, the Beavers have an excellent chance of outpointing Whittier and gaining sole possession of 5th place (currently shared with Whittier).

Other strong performances have been given by Ryoji Watanabe, Ashok Krishnamoorthy, Ted George, Steve Roskowski, Khan Nguyen and currently de-energized Tom Nolan.



—photo by Tech staff

THE CALTECH WOMEN'S WATER POLO TEAM PLAYED AN UNKNOWN OPPONENT SATURDAY, AND LOST AT LEAST ONE OF THE TWO GAMES. IN THIS AWFUL PICTURE, HEIDI LANGE BERG SCORES THE GOAL WHICH TOOK THE SECOND GAME INTO OVERTIME. BUT WE LOST ANYWAY. OH WELL.

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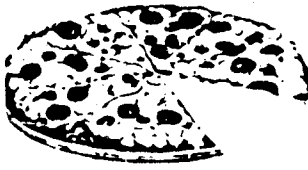
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Weekly Sports Calendar

Day	Date	Time	Sport	Opponent	Location
Fri.	5-3	All Day	Men's Tennis	SCIAC Tournament	Claremont-Mudd
Fri.	5-3	5:00 pm	Track	SCIAC Prelims	Occidental
Sat.	5-4	4:00 pm	Track	SCIAC Finals	Occidental
Sat.	5-4	All Day	Men's Tennis	SCIAC Tournament	Claremont-Mudd
Mon.	5-6	3:00 pm	Baseball	Pac. Coast Bap. Bible Coll.	PCBBC
Sat.	5-11	1:00 pm	Men's Tennis	Faculty	Caltech

WHAT GOES ON

Material for What Goes On must be submitted typed on or with an Announcement Form, available at the offices of The California Tech, by the Tuesday preceding the Friday of publication.

Fire Photo Wanted

Engineering & Science would like to buy a photograph of the firewalking demonstration for use on the cover of the magazine. The photo should be a high-quality, 35mm color print or slide featuring a Caltech student or faculty member. If you have such a photo, please bring it to the E&S office in Public Relations (315 S. Hill) by 5 pm Monday, May 6.

Shabbat

The weekly Friday night service will continue to meet at its new time (6:15-6:45 pm) in the Y Lounge on the 2nd floor of Winnett. All interested persons may be our guests at the Shabbat Dinner immediately following the service. Please call 793-3859 for more information.

Career Counseling

The Career Counseling Program is sponsored by the Gnome Club and the Alumni Association. On Thursday, May 9th, from 7:30 to 9:30 at the Alumni House, the topic will be: Careers in Business. Undergraduates and graduate students are welcome. Refreshments will be served. The Alumni House is at 345 South Hill.

Student Crew Needed

Undergraduate and graduate students are needed to work on TACIT's upcoming production, *Emilia Galotti*. Needed are: set and costume crews, stage hands, ushers, and people to run props and publicity. Performances are Friday-Sunday, May 31, June 1 and 2, and June 7, 8 and 9 in Dabney Hall Lounge. Call Alice Cronin-Golomb (x4935 or 793-9259) or leave a message at the Theater Arts Office (x6259).

Children's Center

This year the fundraiser for the Children's Center at Caltech will be giving away three major prizes and many more smaller prizes from area merchants. The prizes include a Hawaiian vacation for two, an IBM PC Jr. computer, a pair of GNP speakers, dinners at several friendly local eating establishments, gift certificates for various edibles and readables, and tickets to various fun things from Dodgers to Disneyland. Drawing tickets are on sale now and until the day of the drawing. The drawing will be May 17th from 5 to 7 in Winnett Center. There will be free refreshments. Tickets for the drawing are \$2.50 each and can be bought at the Public Events Office, various posted campus departments, at lunch on the side of the Athenaeum Monday-Thursday, in front of the Bookstore on Fridays, or at the Children's Center located at the corner of Chester and Del Mar. The proceeds of this fundraiser will be used to purchase an air conditioning system for the Center, which is a desperate need during this coming summer. Please show your support.

♂ C★L★A★G★S ♀

CLAGS is experimenting with a rap session which will meet for the first time this Sunday at 2:00 pm in 210 Baxter. The opening topic will be "Stagnated Growth in the Community." Everyone is welcome. Refreshments will be served.

Jesus Christ †

Who is he? What are his claims? What does he offer us? Discover the simple good news of Christ apart from church dogma. Understand the basis for Christianity. Is there hope in the face of death? Come and find out. People of all persuasions are invited to an investigative Bible discussion led by Paul Smith, who has studied comparative religion for the last several years. Stimulating discussion sponsored by the Caltech Christian Fellowship every Sunday night at 7 pm in the Y Lounge. For more information contact Paul Smith, 449-8391 or x6532.

Bandorama!

Caltech's Office of Student Affairs and the Yamaha Corporation are co-sponsors of the sixth annual "Bandorama," to be held on Friday, May 10, in Ramo Auditorium. The free concert, featuring the Caltech Wind Ensemble and Caltech Jazz Band, will begin at 8:00 pm. This year's guest soloist is trumpet star Allen Vizzutti. Allen can be heard as the trumpet soloist on many of the Chick Corea and Woody Herman recordings. He also has four albums released under his own name, and is working on an album for Columbia Records. His own fusion group, "Red Metal," plays at many of the jazz festivals around the world. Even though the concert is free, a big crowd is expected, so get there early for the best seats.

JPLer on KPFK

Dr. Albert Hibbs of JPL will be making a special radio 'appearance' on KPFK's science fiction show, "Hour 25" tonight from 10 pm to midnight. He will be talking about JPL's role in the space program, and related topics. KPFK is usually at 90.7 on your FM dial.

Class Offices

Due to the great demand, [?!-Ed.] nominations will remain open for Senior and Junior president and secretary/treasurer until May 7th. To be put on the ballot you need to do the following:

1. Write a brief note to Lisa Cummings, ASCIT Secretary, stating which position you want to run for;
2. Deliver the note to the Dean's office by May 7.

Candidate statements need to be delivered to the *California Tech* office by May 7 at 8:00 pm. Elections will be held on Monday, May 13.

ASCIT Van

The ASCIT Van is ready for use. Cost is 22¢ per mile, which includes gas. The van is an 85 Chevy Sport Van, which comfortably seats eight, with plenty of room for storage. For reservations or more information, contact David Parkinson at 356-9111.

FOCAL Book Sale

Friends of Caltech Libraries (FOCAL) are holding their annual Book Sale on Friday, May 10, in Millikan Board Room. Books of all types—science, engineering, humanities—are on sale for \$1 for hardbounds, 50¢ for paperbacks, and 10¢ for magazines.

Room Contest

On Friday, May 17, the Housing Department will hold the fifth annual Room Improvement Contest.

Persons qualified to enter the contest are those students who live on or off campus who have made room improvements during this academic year.

Prizes of \$100.00 per person will be awarded for the following:
 1 Double room, North houses
 1 Double or single room, South houses
 2 Rooms, off campus.
 Prizes will be based upon the best overall room improvements considering:

- Originality
- Structural Soundness
- Use of space
- Aesthetic qualities
- Money spent
- Particular rehabilitation accomplished

To enter the contest, sign up in the Master's Office or Housing Office through May 10 (Friday).

Aura You Sure?

Almost everyone has seen a Kirlian photograph of a leaf or a fingertip surrounded by a strange glow and light streamers, sometimes in vivid color. Most people are also aware that there are spectacular claims that match the striking aesthetics of this photographic process. It has been claimed that the photographs depict the human aura, or the "energy body" of living tissue, and that the process measures the transfer of energy in psychic healing. Kirlian photography as a reliable and easily measurable process has been hailed as a rare breakthrough in paranormal research. Kirlian photographs have even been accepted in some law courts around the country to select jurors and determine guilt or innocence of defendants.

Physicist and Southern California Skeptics board member Dr. Ronald Crowley reveals that the mechanisms causing the varied and colorful photographs are not completely understood. Enough is understood, however, to warrant the warning that no extraordinary or paranormal processes are involved in Kirlian photography. The photographs may seem exotic and mysterious, but that feeling of mystery may simply stem from the lay person's unfamiliarity with the complex but apparently mundane physical processes involved.

Objective investigation of the Kirlian effect requires considerable expertise in the physics of electrical phenomena, and very rigorous experiments to determine why and how the photographs vary. Dr. Ronald Crowley shows that the answers we are beginning to acquire to questions about the Kirlian process, while they may lead in interesting and important directions, are not the answers offered by paranormal speculations.

Where: Baxter Lecture Hall
When: 2:00 pm, Sunday, 5 May
 The demonstration will be free and open to the public. It is sponsored by the Southern California Skeptics and the Caltech Y.

Read All About It

There will be a meeting of the staff of *The California Tech* today at 12:15pm in room 127 Baxter. (This is also known as the class PA 15.) Feel free to stop by if you're interested in working on the *Tech*.



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HELP WANTED—

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