

I hope that all the people who didn't help put this issue together feel guilty about it. (Exceptone.)

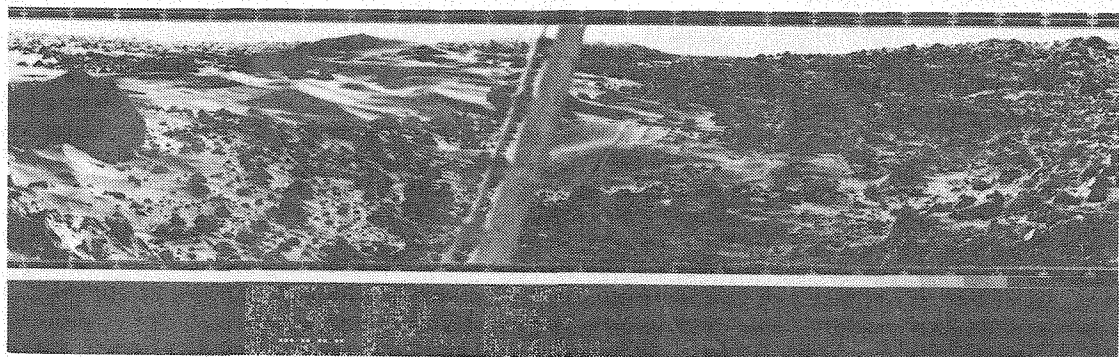
# THE CALIFORNIA TECH

I don't like being abandoned alone.

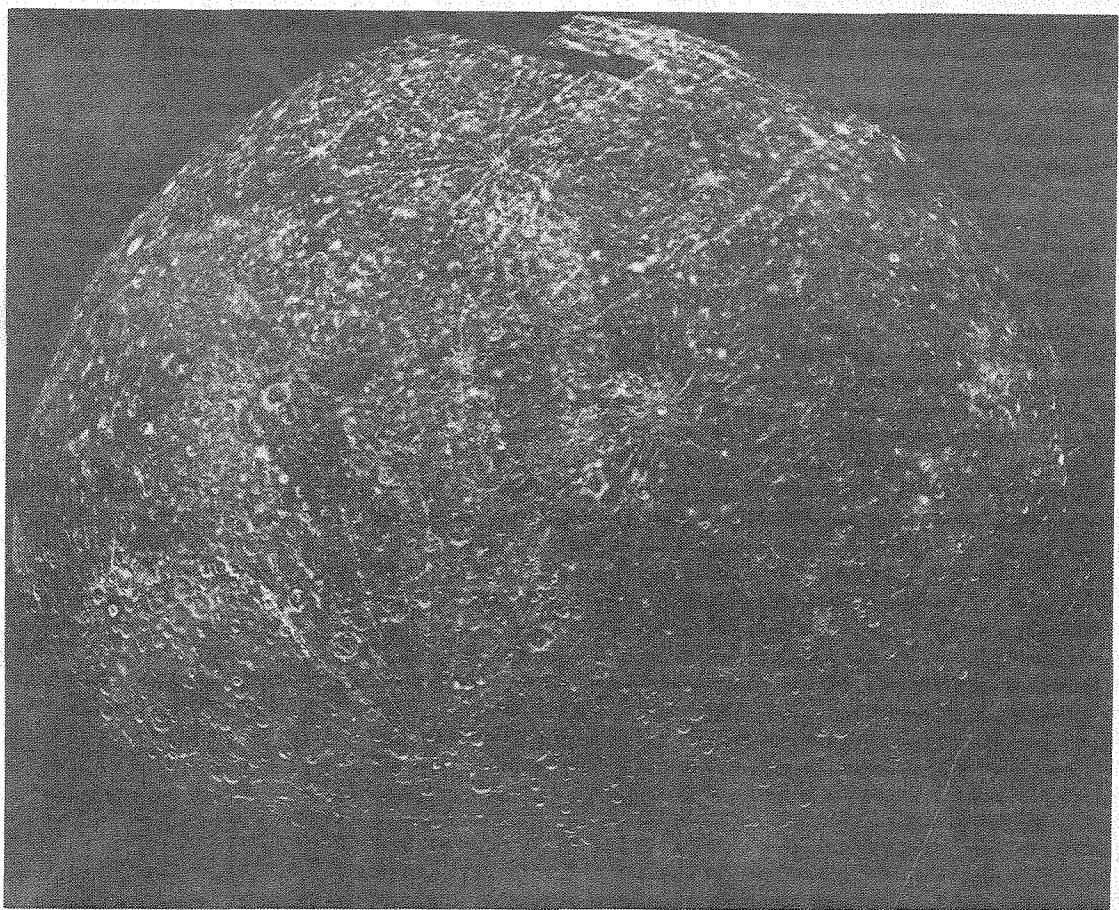
VOLUME LXXXVI NUMBER 28

PASADENA, CALIFORNIA

FRIDAY 17 MAY 1985



"25 YEARS OF SPACE PHOTOGRAPHY: JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY" IS THE TITLE OF THE LAST SHOW AT BAXTER ART GALLERY, WHICH IS BEING CLOSED BY ORDER OF PRESIDENT GOLDBERGER. THE SHOW OPENS NEXT WEDNESDAY, MAY 22, AND CONTINUES UNTIL THE GALLERY'S LAST DAY, JULY 31. A SELECTION OF 140 PHOTOGRAPHS IN BOTH COLOR AND BLACK-AND-WHITE TRACE THE HISTORY OF NASA THROUGH COMPUTER-RELAIED IMAGES. AS DR. LEW ALLEN, DIRECTOR OF JPL, POINTS OUT, "MANY OF THESE PICTURES ARE UNQUESTIONABLY BEAUTIFUL." ABOVE, AN EARLY-MORNING VIEW OF THE MARTIAN LANDSCAPE, COURTESY OF VIKING 1. BELOW, A COMPOSITE PHOTO OF THE SOUTHERN HEMISPHERE OF MERCURY; THE SOUTH POLE IS IN THE BOTTOM CENTER. THERE WILL BE A SPECIAL PREVIEW RECEPTION NEXT TUESDAY NIGHT, MAY 21, FROM 5 TO 8 PM. BAXTER ART GALLERY IS LOCATED IN THE BASEMENT OF BAXTER HALL AND IS OPEN SEVEN DAYS A WEEK FROM 12 NOON TO 5 PM, UNTIL JULY 31.



## Apartheid Elsewhere

by Ketan Shah

[This is the second of two articles on campus demonstrations against apartheid.]

Students of the University of California and other universities are using a computer network to mobilize demonstrators for yesterday's and today's Board of Regents meeting at Berkeley. The computer link, used for information exchange, illustrates the growing sophistication of university activists of the 1980's.

Campus protests against apartheid began on a large scale with the demonstrations on April 4 by Columbia University students. More than a thousand arrests have been made since at universities across the country.

The protests have taken many forms. At Columbia University, students had gone on hunger strikes. At UCLA, USC, and California State University, Northridge, administration buildings had been occupied. Some students set up camp in front of administration buildings and in central plazas at UC-Davis, UCLA, and UC-Berkeley. The demonstrating crowds at these universities have numbered from one to seven thousand people.

Sproul Hall, the Berkeley administration building has been renamed Biko Hall by students after Steven Biko, a slain South African student leader and civil rights activist. Protesting students at UCSB have renamed their administration building in honor of Nelson Mandela, a South African leader jailed by the government for more than twenty years. USC

students have renamed their Bishop Desmond Tutu Hall.

Professors at a few universities suspended some classes and also agreed to discuss apartheid. Berkeley had its first ever all-faculty demonstration last month and faculty petitioners demanded that the UC system sever all ties with companies doing business in South Africa. Local elected officials, union members, and clergymen have also joined students in protesting against apartheid and against investment in American companies with subsidiaries in South Africa.

The divestment issue is a difficult one for the University of California Board of Regents. About \$1.7 billion of the university's investment portfolio of \$5.5 billion is invested in companies with South African plants. The Regents are divided on the subject: some feel they should pull out altogether, others would like to leave out politics, while the rest favor a compromise policy of "selective" divestment.

According to the Investor Responsibility Research Center, a consulting group that researches public-policy issues, forty-four university endowments are selling some, if not all, shares in companies with South African ties, or removing deposits from banks that lend to South Africa. The assets of the forty-four endowments total \$8.8 billion, or 22% of the \$40 billion of all endowment assets.

These figures dwarf the \$2.4 billion U.S. investment in South Africa, which is 3% of overall direct investment in that country and 17% of U.S. foreign investment.

## Live From Budapest

by Julian West

There is no unemployment in Hungary.

At least, that's the official story. It doesn't mean that everyone is doing a job, and certainly doesn't mean that everyone has a *useful* job by American standards. For instance, an economically unemployable educated (read: overqualified) person might be designated an intellectual and be paid to sit at home thinking.

Rather more ingenuity must be used to find work for other sectors of society. This is where some of the not-so-useful jobs arise. For instance, there is a woman who sits in a little room on the ground floor of our classroom block with a supply of keys for the building. Whichever of us arrives first in the morning signs for our key, and has to return it in the afternoon.

Well, it's a job, and in fact a very useful one—we simply couldn't exist as a group without this person. Indeed, it's six jobs, as every floor in the building has such a custodian, who may also have certain other cleaning duties. Of course, a great number of such jobs would be made redundant by the rather low-tech solution of issuing more keys. A keying system such as Caltech's makes this work seem laughable.

But there is nothing funny about a system which provides many people with useful jobs. A Caltech

student might not receive much satisfaction from sitting day after day in a room full of keys, but many of these people do. They are free to spend much of their time reading or visiting with colleagues—which already makes the position seem much more enviable. Also, the work brings them into contact with a large number of people.

If key-keeping is our favourite form of busy-work, it is by no means the only one. Every theatre and nearly every restaurant employs coat-check clerks—a position which would be absurd in Pasadena for meteorological reasons alone. After the record-breaking European winter returned with a vengeance in February, we took them more seriously.

Paper-pushing may be an American forte, but here they still push *paper*. Imagine a bank without a single CRT in evidence; presumably there would be fewer humans behind the counters if there were more computers.

And when was the last time you saw a washroom attendant in America?

It didn't take long to notice that a lot of the people we encountered in such professional capacities were women. There are some obvious reasons. Banks employ secretarial personnel, who are by and large—here as everywhere—female. Key-keeping and coat-

continued on page 5

## Fall Housing Crisis

by Chris Brennen,  
Master of Student Houses

An unusually large number of frosh are expected to register for the fall term. Thus far the Admissions Office has received acceptance notifications from some 240 potential frosh, though attrition during the summer may decrease this number by ten or fifteen. Despite my dissatisfaction with the Admissions Committee, as Master I must find some way to house this unusually large incoming class. And I feel obligated to try to house as many frosh on campus as I possibly can. I regard it as particularly important for an incoming freshman to have the opportunity to live on campus. But when one examines the numbers as I shall do below it is quite clear that we have a very real crisis in on-campus housing for the fall.

Therefore I should like to appeal to all present students to consider very seriously the option of living off-campus next year. In the Master's Office Janet or Bernie or I would be only too happy to explore the off-campus housing opportunities with you—so please come by and see us. Think of what it would have been like if you had had to begin your Caltech career in an off-campus room. Remember that upper-classmen moved off-campus and so made it possible for most of you to live on campus as freshmen. Perhaps you have some

corresponding responsibility to the incoming class.

As some measure of the magnitude of the crisis consider the following statistics. There are presently about 88 seniors on campus as well as about 121 juniors and 141 sophomores. To estimate the number of spaces available to incoming frosh add the number of seniors to some estimate of the fractions of juniors and sophomores who might move off-campus. As an example assume

a breakdown of the estimate described above. Perhaps it should represent a minimum target for each of the houses—a target which would at least represent some effort to meet the obligation to the incoming class. At the very least a perusal of these numbers will reveal the magnitude of the crisis.

The Master's Office and the Housing Office have agreed to provide some additional incentives to students who decide to live off-

House	Seniors	Juniors	Sophomores	Frosh	Space Estimate
Blacker	7	15	23		19
Dabney	12	14	8		20
Fleming	11	14	24		23
Lloyd	21	19	20		34
Page	6	15	37		21
Ricketts	12	21	15		24
Ruddock	19	23	14		32
Totals	88	121	141		172

40% of the juniors and 25% of the sophomores move off-campus. Even this would yield on-campus space for only 172 frosh—leaving perhaps 60 freshmen to fend for themselves in off-campus accommodations. That is one-quarter of the whole class!

Broken down on a house-by-house basis the number of seniors, juniors and sophomores presently living on campus is shown in the chart at right. The last column is

campus in the fall. Additional funds for off-campus room improvements will be made available. So pick out an off-campus room and you can "do it up" right. Off campus you are, of course, completely free to choose your own board contract (or to forego that pleasure). On the other hand if you chose to live on-campus you should know that I am going to administer the off-board policy in a very hard-nosed way.

LETTERS

Start Making Sense, David

To the Editor:

David Goldreich (Letters, 5/10) is missing the point in regard to protest over apartheid. It is surprising to see a "supposedly intelligent Caltech student" uncritically swallow the excuses and justifications distributed by the ruling minority in South Africa. DG refers to the "many changes" and "much progress" recently made by Botha "in his attempt to return power to the blacks," but he doesn't list these changes. Presumably, though, he would include the loosening of South Africa's harsh and truly medieval laws against interracial sex and marriage; if there have been other noteworthy recent changes, I wish he would point them out. Can DG really believe that Botha made this change on his own volition, without any internal or external pressure? Can he come up with any other feature of apartheid which is as devoid of practical content? How many whites does he imagine WANT to intermarry? And of these, how many would be willing to bear a heavy social stigma and have their children be second-class citizens? In short, a written law was hardly necessary and its erasure isn't likely to make a difference.

As for the "much higher standard of living" which black South Africans enjoy, there may be some truth to this, but the standard doesn't necessarily include the repression which nonwhite South Africans must constantly endure. More importantly, such statements do NOT justify apartheid.

Goldreich's assertions that protesters generally "advocate immediate transfer of power to the blacks" and that "anarchy would surely reign and a bloodbath would follow" are debatable, to say the least, and don't strike me as the

product of a "clear thinking individual." I don't quite see how the two bombs in Johannesburg are the product of liberalized policies, but never mind that.

The statement that the "present government would prefer to slowly ease the blacks into power" is simply nonsense. The present ruling race has made it abundantly clear for the past century that it won't voluntarily include blacks in any decision making. It may be true that to "suddenly thrust the blacks into a position of power" would be a bad idea, but if one were sincerely interested in a gradual transfer of power, wouldn't it be sensible to make an extra effort to provide education for those people who are "not ready" to control their own destinies? How about encouraging them to integrate and treating them as legitimate humans, before letting them vote? Have Botha or his predecessors done anything of the sort? Hardly! Instead, blacks have been forcibly packed up and shipped off to desolate "homelands" and the per-capita resources devoted to black education are a small fraction of what is devoted to (wealthier) whites.

There probably isn't a simple answer to whether U.S. divestment is in the longterm interest of democracy in South Africa, but Goldreich asserts that "divestment would destroy any influence that the U.S. has to discourage apartheid." This is like watching firefighters pull up in front of a burning house and yelling, "Don't unroll that hose! What if a fire starts somewhere? Then we won't have anything on the truck to put it out with." DG predictably reminds us of all the nasty things the Soviets and other commies (they're all the same, you know) have been doing. I agree that such sins should be publicized and protested (not that the U.S. has been so saintly), and I certainly wouldn't choose to live under the Soviet system.

However, we already have an administration which is devoted to stridently denouncing the Russians—to the exclusion of virtually every other concern (including the survival of our

species); while it indiscriminately supports right-wing regimes, no matter how cruel. THAT's why it makes sense to protest apartheid, David.

—Peter Gray  
228-077

Nota Bene

To the Editor:

Graduation is approaching, and so are the commencement exercises that celebrate our years of achievement. Commencement is indeed a celebration—we have pageantry, music, and parades; we wear gowns, a costume of the Middle Ages. It is a time when we can feel happy and pat ourselves on the head for our years of work. Thus with the intention of making this as joyous an occasion as possible, for all, we wish to present a request before the community. We want prayer to be removed from our commencement ceremony.

Caltech is a truly diverse institution—Christians, Jews, Moslems, Buddhists, Hindus, agnostics, atheists, and more than a few others can all be found here in abundance. We live together harmoniously, much more so than the world at large, because we have learned to separate faith and science. We esteem free thought, investigation, proof, the scientific method, and we communicate in those terms. Unlike so many other places, Caltech and its Trustees make no claim to this being anything other than a secular institution, and we do not force those things which we feel as a matter of faith, unproven, upon others. But when graduation comes we seemingly reverse that policy. Following the lead of most of most other schools in the country we have a clergyman of some Judeo-Christian faith deliver a benediction prayer. Though designed to be non-offensive, that is not always so, and at the very least it can make those of other faiths or non-faiths feel a bit out of place.

We do not in any way wish to attack the beliefs of others, or their inalienable right to hold them. What we want is respect and recognition for all of the great plurality of beliefs found in our community, and we feel that those holding one belief or another will inevitably be shortchanged if any kind of religious statement is made. Certainly, the benediction is not a very large infringement upon our rights, and it is one that most of us have simply resigned ourselves to; nonetheless, it need not occur. With that in mind we present this letter.; We have already communicated with the President and the Convocation Committee and have found that traditions die hard. We ask others to write to *The Tech* and express their feelings on the issue, and we will soon circulate a petition to show the administration that we are not alone in our feelings.

It is probably too late to change this year's ceremony as invitations to commencement speakers have already been tendered. But we can still do something about the future. We ask that Caltech remove this inappropriate and divisive element from our graduation ceremony. We think that we are asking very little, but it could make commencement a happier occasion for all of us.

—Stan Berman  
Elliott Lowy  
Robert Martinez  
Aaron Roodman  
Deirdre McClure

Americans hold views favoring and opposing disinvestment. Student interest is to be welcomed. Apathy is too often a political hallmark of the Institute. For thirty-five years I have worked the vineyards of peaceful change to a just society in South Africa. My 1958 article in *Foreign Affairs* was the first to predict the present liberalization among Afrikaners.

How can the Caltech community be positive—for a change? I have an urgent request from a predominantly black, but racially inclusive, university near Cape Town for library books. Any books sent to me in Baxter will be forwarded at my expense to the black university.

After his salvo, I'm sorry that Mr. Goldreich did not hear the four young, black, South African journalists who spoke so passionately in my seminar on May 13th.

—Ned Munger  
Professor

Department of Correction

In last week's masthead, the Entertainment Editor's Co-Producer should have been listed as Leopold Fennwick, Esq.

THE CALIFORNIA TECH

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Friday 17 May 1985

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Turn in copy to the *Tech* office mailbox, room 107 Winnett. The deadline for copy is Wednesday at 5 p.m.; for announcements, Tuesday at 5 p.m. Late copy may not be printed unless previous arrangements have been made with the editor.

Give me a protagonist—say, Lisa. Any name would do. George, even. A room; work; give him something to do. I can examine the situation, turn it around; I can place you there, or her, or the one over there next to *him*. If you want, I can kill him off—or maybe you would like to take control. Sit down. Here's a pencil.

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Features Editor . . . . . Peter Atke  
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The Inside World . . . . . Bob Bolender (Ricketts), Jim Bell (Blacker), Alex Gilman (Dabney), Ravi Subramanian (Lloyd), Chris Mihos (Ruddock), Darin Acosta (Page), Ed Zanelli (Fleming)  
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The Inside World

Lloyd: Hear ye, hear ye. On this date, the seventeenth of May, we do present to our brave knight a challenge, to consist of the following:

1. The heading of a soccer ball twenty times consecutively, with as few drops as is possible,

2. The scoring of three goals against the right honourable Master Praveen (and whoever else doth deem it necessary to join in) in a match of Inferno soccer, and

3. The task of giving Hod and/or Sho a free ride through all seven halls of the noble house, at whatever speed he deems proper.

Verily, if these tasks be tried with a full heart and an open mind, our knight shall be redeemed.

Welcome Turbo, the latest social member of Lloyd House (ask the vice president for the intimate details).

Bassoon tutor needed, female preferred. Inquire at room 127 or call 578-9083 and ask for "brain surgery."

—J.P.

THE ASCIT MOVIE  
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Picnic at Hanging Rock

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The Caltech Y Fly-by

Friday . . . May 17

Noon Concert— Goldenhair— at noon on the Quad.

Jose Cabazon, a Tech graduate turned Buddhist monk, will speak in Winnett Lounge at 8 PM.

Fat Tuesday? On a Friday in May in California?? It's UCLA's Mardi Gras! Runs all weekend. Y-Car goes tonight at 5 PM. \$3.50.

Sexuality Workshop— part of Sexuality Awareness Week. Starts tonight at 7:30 PM in Winnett Lounge.

Tuesday . . . May 21

Mountaineer Fred Beckey will show a lot of slides of the mountain ranges of North America. Winnett Lounge, 8 PM.

Friday . . . May 24

Noon Concert— Seven— a Jazz concert on the Quad at noon.

Saturday . . . May 25

"Measure for Measure." At the Mark Taper Forum. Y-Car leaves at 7:20 PM. Sign up now! \$5 tickets.

Carmina Burana Ballet— at UCLA. Y-Car leaves at 6:50 PM. If you signed up, go!

Any questions, comments, or ideas?  
Call the Y or stop in soon.



## ENTERTAINMENT

## ENTERTAINMENT

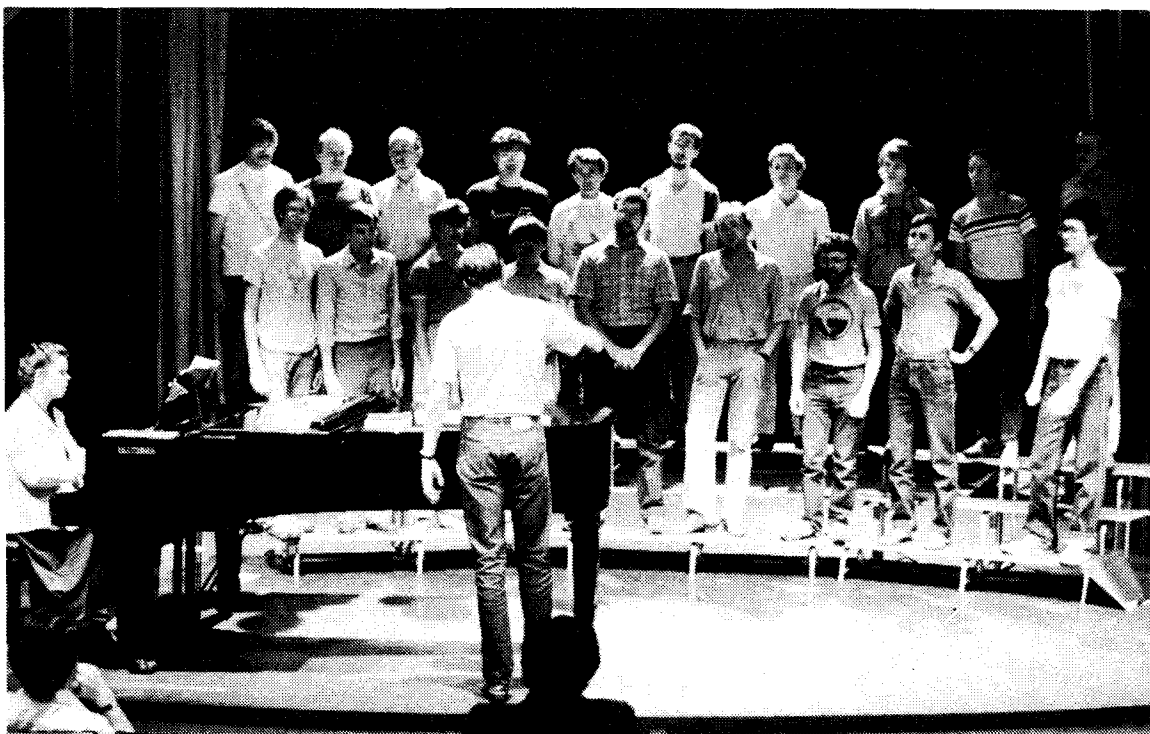
## LIFE'S little NECESSITIES

**A Reading By Oscar Mandel**—Yes, Caltech's own. He will read selections from his *Collected Lyrics and Epigrams*, *Collected Plays*, and *Book of Elaborations*. Free refreshments! Dirk Cable, Bookseller, 350 South Lake Ave., Pasadena. Friday, May 17. 8 pm. Free.

**X**—Some say they're the *only* band in L.A. Whether or not that's true, their music is powerful and professional. Magic Mountain, Fri. May 17, 8 and 10 pm.

**Arroyo Singers**—Their annual Spring Concert. Garland Theatre (Polytechnic School) Sunday, May 19. 4:00 pm. \$5.00.

**Ganymede**—The last Dabney Lounge Chamber Music Concert of the year. Dabney Hall Lounge. Sunday, May 19. 3:30 pm. Free.



THE CALTECH GLEE CLUBS ARE HAVING THEIR ANNUAL HOME CONCERT THIS SATURDAY, 8 PM AT BECKMAN AUDITORIUM. FEATURING OPERA CHORUSES, MUSICAL CHORUSES, AND FOLKSONGS OF VARIOUS COUNTRIES. COME AND ENJOY THE MUSIC OF YOUR FELLOW STUDENTS

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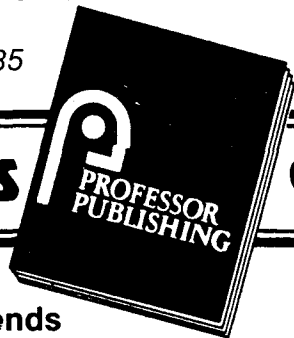
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ENTERTAINMENT

A Much Needed Void

by John Fourkas
Rustlers' Rhapsody
Written & Directed by Hugh Wilson
Paramount Pictures

There are some cliches in this world that simply cry out for parody. As Hugh Wilson has realized, the cowboy movie is one such cliché. What Wilson seems to miss is that Mel Brooks took care of the missing parody problem years ago with Blazing Saddles.

Rustlers' Rhapsody is all about Rex O'Herlihan, a Good Guy cowboy who must shop at Neiman-Marcus. Amazingly enough, Rex is a singing cowboy. This explains half of the title of the movie. I personally never saw or heard of a

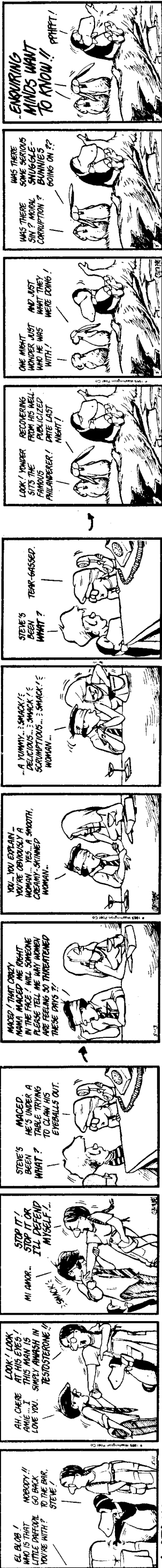
rustler in the movie; I suppose the word is simply used for alliterative effect. At any rate, Rex has just pulled into Oakwood Estates, a Wild West town, to do his usual thing. We immediately meet all of the important cliché characters—the town drunk who becomes Rex's sidekick (not to be confused with Gene Wilder), the lusty showgirl (not to be confused with...hmm, was it Madeline Kahn?), and the evil villain's henchmen (not to be confused with the governor's henchmen).

The real problem with Rustlers' Rhapsody is that it is too stupid. All of the jokes are overstated. Not only are we told jokes, but we are told that we are being told jokes. Although there are some fair visual gags, most of the heavy parody comes from the narrator's all-too-frequent monologues. We are shown a shot of a cattle baron's ranch sans cows, and told, 'Isn't it funny how in all of these movies you could hear the cattle baron's cows but you could never see them? (Mooo... Moo... Moo.)'

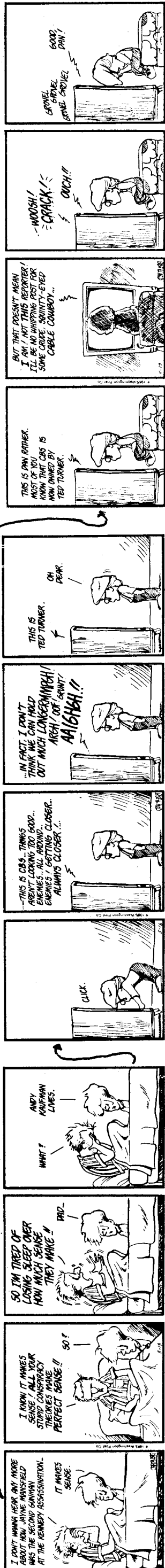
should feel guilty if it doesn't laugh at something so obviously stupid and funny.

I should make a quick mention of the music in Rustlers' Rhapsody (say, did you know that nylon guitar strings existed in 1884). The music was written by Steve Dorff, Milton Brown, Snuff Garrett, and Nancy Masters. Now admittedly I don't know much about this sort of music, but it must have been awfully good seeing as the people behind me at the press screening clapped wildly every time the names 'Steve Dorff' or 'Nancy Masters' came on the screen. Then again, they did keep calling each other 'Steve' and 'Nancy' very loudly...

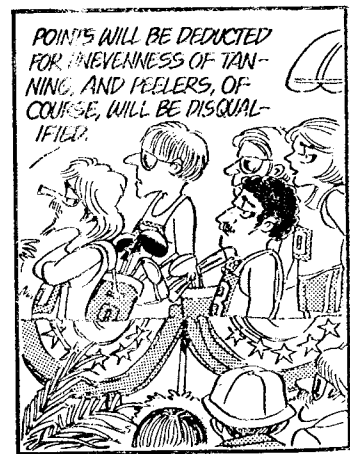
In truth, Rustlers' Rhapsody was bound to (1) Be an utter copy of Blazing Saddles; or (2) Be stupid, or (3) All of the above. An original cowboy movie parody cannot be written until a new genre of cowboy movie arrives (and I'm sure that all of you await this with bated breath). Until such time, Rustlers' Rhapsody and its like will, in the words of one immortal reviewer, 'continue to fill a much needed void.'



BLOOM COUNTY IS SPONSORED BY THE CALTECH Y. CONSUELA IS ON VACATION THIS WEEK.



THE 5th ANNUAL TANNING INVITATIONAL featuring THE BENDERS and THE YLM'S at NOON. EVENTS beginning @ 2:00 PM: BEST PEEL, LEAST UNTANNED AREAS, CHEESY STASH CONTEST, BEST TAN, UNDERWATER BICYCLE RACES, BEST BURN, BEST PEEL, MOST ORIGINAL TAN, GUZZLING GREASED BEACH BALL CONTEST, WANDA @ SNOD SPECIAL OLYMPICS. FOOD AND BEVERAGES on SATURDAY, MAY 18th GRADS, UNDERGRADS, and ALL THE YOUNG DUDES! SPONSORED BY the master's, the dean's, alumni, ASCIT, the Caltech Y, CTC, MBΩ



# Boeing Gives Quarter-Million

The Boeing Company of Seattle, Washington, has pledged a gift of \$250,000 over the next five years to establish the Boeing Faculty Development Fund here at Caltech. The fund will be used to aid new and younger faculty in science and engineering to establish their research groups.

In announcing this gift, Caltech's President Goldberger stated, "With this gift, the Boeing Company is helping to meet a vital need at Caltech. We must be able

to attract outstanding researchers and teachers if we are to maintain the high quality of our faculty. This task has been made very difficult by the reductions in federal funding for science and education and by the lure of higher salaries offered by industry.

"Younger faculty, even those as talented as Caltech is able to attract, frequently need private start-up funding to develop research programs that can subsequently attract

federal grants. The Boeing Fund will help provide that crucial seed money.

"An unusually large proportion of Caltech's alumni become academic leaders—deans, department chairmen, and leading researchers. Thus, it is reasonable to assume that the Boeing Faculty Development Fund would not only benefit Caltech, but will contribute to the quality of science and engineering education nationwide."

# Landau to Speak at Commencement

Caltech trustee Ralph Landau, vice president of the National Academy of Engineering, and former chairman of the board of Halcon SD Group, Inc., will speak at the Institute's 91st commencement exercises on June 14.

Under Landau's leadership, Halcon became the world source of new petrochemical processes, contributing to nearly one-fourth of all new processes commercialized in the past 25 years. Licensing of these technologies and design of plants to produce them have

resulted in more than 400 plants in 40 countries.

With Atlantic Richfield, he also co-founded Oxirane, a major petrochemical company based entirely on new technology.

In February of this year he received the National Medal of Technology, an award established by the White House in 1980 to give Presidential recognition to outstanding contributions to the advancement of U.S. technology and technological manpower.

Landau is a consulting professor of chemical engineering and of economics at Stanford, and participates in its Center for Economic Policy Research for the study of sources of technological innovations and their impact on American life.

He received his BS in 1937 from the University of Pennsylvania—where he is now a life trustee—and his ScD in 1941 from MIT, where he is also a life trustee. He joined Caltech's board of trustees in 1982.

# Unemployed Mathematician Needs Work

from page 1

checking are the exclusive domains of the elderly, which means elderly women. This is partly natural demographics, and partly because any man now of retirement age would have been of killing age 40-odd years ago, when some celebrated unpleasantness was going on in this part of the world.

The less obvious reason why we see so many working women is that the sexes might just be better integrated in the workplace. Not in secretarial pools, it is true. On the other hand there are many female bus drivers; an occupation just as safe as every other one in this city. Equally, when the drivers on the Metro announce the next stops, the voice is as often as not a female one.

I needn't mention that women are guaranteed equal pay by law; I probably needn't add that they don't always get it. Perhaps actuality lies somewhere between American reality and socialist ideals.

The same is true with many other issues—take pornography for example. The much-publicised economic liberalisation of recent years has brought with it a certain amount of social liberalisation, so that it is now possible to see nudie-cutie calendars for sale at the newspaper stands. We conclude that pornography is obvious principally because it is not hidden, and it is nowhere near as widespread as in America. The pornography sold

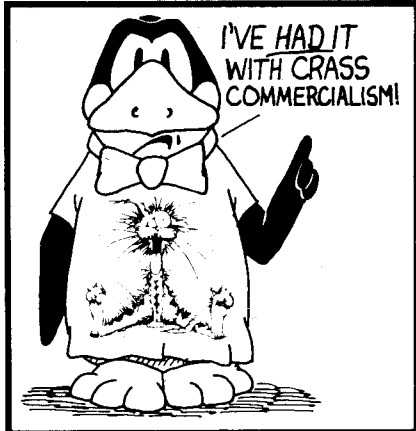
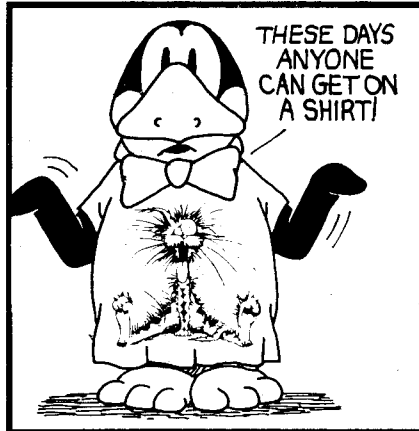
here is nothing in comparison to the spectacle just over the border in Vienna, where a visit to the news agents can require a strong stomach.

It is equally in sharp contrast to the squeaky-clean image of the Soviet Union and other socialist countries. There, however, the situation is more of repression than of enlightenment, and one can begin to feel grateful for the little Hungarian pornography.

A similar thing is true in the related field of advertising. A week in the States is enough to convince one that advertising is a plague which needs to be removed from the Earth. After a week in the Soviet Union, believe it or not, one starts to miss it. Here, of course, a balance is struck.

Returning to "women's issues," I add that one of the best indications of equality in a society comes from an examination of its students. Here the corridors of the physics and mat departments are quite encouraging; if women aren't near parity with males, they seem to do a little better than at Tech.

At Budapest Semesters, we aren't setting too good an example; half of our women got up and bought a one-way ticket to Austria last week. On the other hand, we do have a female math professor (indeed, one of our stars) and very nearly had another one. Perhaps, more than my first sentence, this is an honest sign of progress.



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AS SEEN ON MTV & NIGHT FLIGHT

# Bi Profs Join NAS

Four Caltech biologists have been elected to the National Academy of Sciences this year in recognition of their "distinguished and continuing achievements in original research." This brings to 60 the number of Caltech faculty elected to the prestigious Academy, a 122-year-old private organization of scientists and engineers that act as official advisers to the federal government, among other things.

The four new Caltech NAS members are: Drs. John N. Abelson, Eric H. Davidson, Masakazu (Mark) Konishi, and Melvin I. Simon.

Dr. Abelson, professor of biology, is conducting research on how genetic information contained in the Cell's DNA is transcribed onto RNA copies that become part of the cell's protein-making machinery.

Dr. Simon is studying the molecules that enable organisms,

from bacteria to mammals, to respond to changes in their chemical and physical environments. Both he and Dr. Abelson came to Caltech from U.C. San Diego in 1982.

Dr. Davidson, the Norman Chandler Professor of Cell Biology (don't blame him for the food—that's a different department) is researching how genes control the process of embryonic development, using sea urchin eggs as a model.

Dr. Konishi, the Bing Professor of Behavioral Biology, investigates the brain mechanisms underlying the production and recognition of birdsong. His work also involves studying the auditory system of the barn owl to understand how the brain processes information.

The simultaneous election of four members from one department is a genuine credit to Caltech's Biology Department.

# Fleming House

[Fleming turned in this Ditch Day commentary last week, but due to editorial oversight, it did not see print. My apologies—Editor]

Good job, seniors. Another Ditch Day has come and gone:

Thanks to Dave and the Boogens we had champagne for breakfast and lunch and dinner. It was the winning combinations.

Adventures in the Seventh Dimension compliments of Buckaroo Bill Butler.

Wu's trivial stack ended up stumping us all.

Z speaks Chinese just for you, Joe.

There were mixed reactions to the Gibbo-Myers project; the keg made it all worthwhile.

Our deepest apologies go to Linda, but next time, please hide your balls a little better.

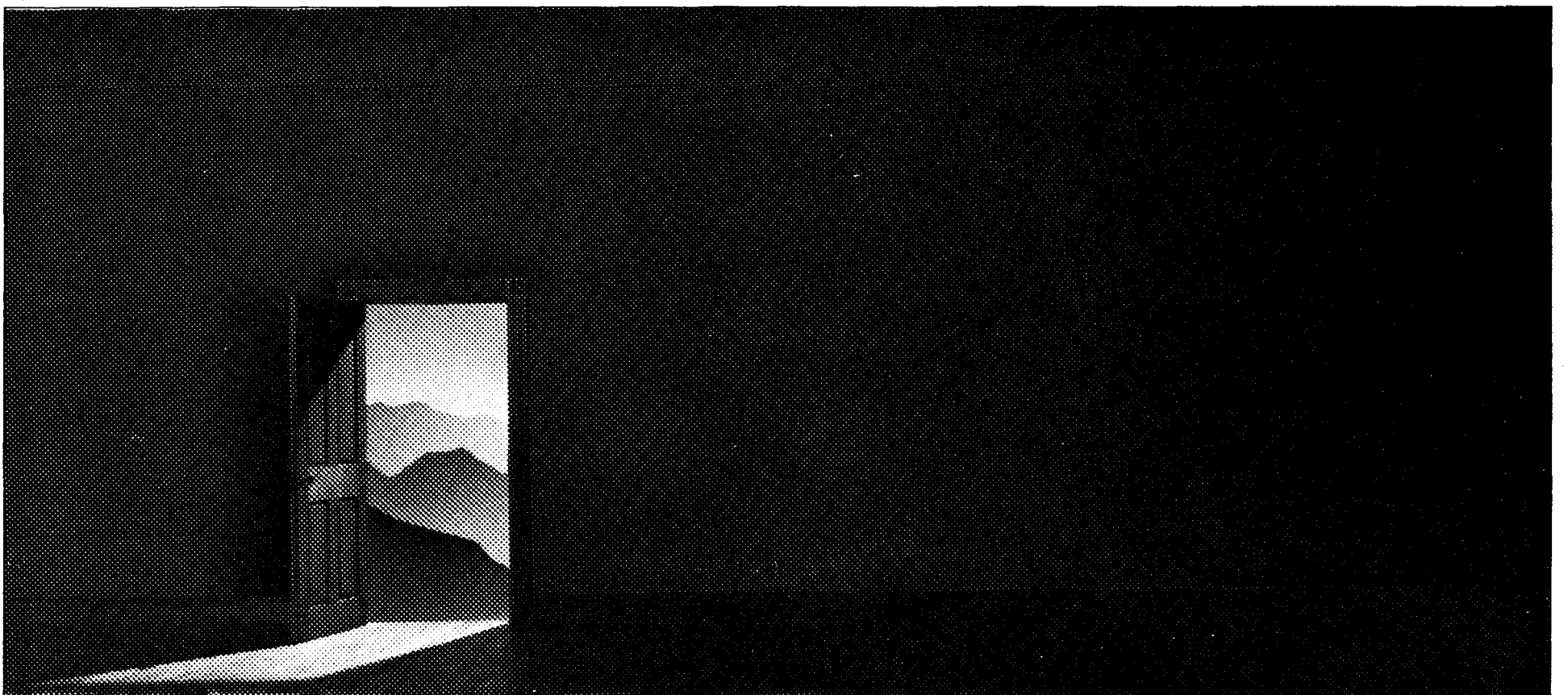
A secret obsession with pendragonrags, Rex? There was, however, a bribe fit for a king.

Mike, or should I say Ed, we all knew that one day you would find a use for soap.

A fencing exhibition? Looking to pick up a few pointers, Chien-Wei?

Look, Mom and Dad, we cleaned the house all by ourselves. We'll miss you, too.

—Al Fansome



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# Class Officers

Nominations for Junior Class Secretary/Treasurer are re-opened until Tuesday, May 21, 1985 (5:00 pm). If you wish to run for the office, send a note to Lisa Cummings, care of the Dean's Office. Elections for the office will be held a week from today, Friday May 24, 1985.

## Senior Class President

Paul Gillespie  
Jim Helgren  
John Rostykus

## Junior Class President

Steve Roskowski  
Steve Lewis  
Al Becker

Elections today are run-offs for Senior Class President and Junior Class President. The candidates are listed below.

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# Ars Amore

# Heightened Awareness

by Charles Barrett

This has been a busy week for the subject of sexuality at Caltech. It is reassuring for me to see reasonably large numbers of our community's members turn out to listen to the talks given during the Symposium on Human Sexuality. I no longer feel like I'm the only one sticking my neck out by discussing a topic many are uncomfortable with.

To be sure, the Symposium was a bold step and more than a bit of a gamble; in spite of the draw of free food during the talks, there was no telling how many in the community would show up. Some are uneasy at the thought of open discussion on a subject burdened for so long with associations of impropriety and guilt.

The funding for the project was provided by the Caltech Y, the Health Center, the Dean's Office, the OWC, ASCIT, the Alumni Fund, and the MOSH. Although they all acknowledged the need to address the topic of sexuality at Caltech, there was some concern over how many individuals the Symposium would reach. Those who needed it most would be the least likely to attend.

Ralph Wolf, president of CLAGS and involved in organizing the Symposium from top to bottom, feels that the community as a whole will benefit from this open treatment of the subject. Even if only a few people come away from the talks with a better understanding of their sexuality, the project will have proven itself a success.

Monday's talk by Dr. Donna Hardy from Cal State Northridge broke the ice and started the series off with her friendly and informal

manner. She spoke on models of human sexual behavior, discussing how role stereotypes have loosened over the last few decades. Women can now wear slacks and men can have long hair without inciting much comment. Indeed, we are in the age of androgyny with the popularity of Boy George, Michael Jackson, Prince, or the strikingly masculine Grace Jones (from *Conan II* and the new James Bond film [and, of course, that unforgettable rendition of "Warm Leatherette"—Ed.]).

Second-guessing a person's sexual orientation by their outward behavior is notoriously unreliable. Sensitive men and aggressive women may be gay or straight. Many gay men are very masculine and athletic, and most male transvestites are heterosexual.

On Tuesday, Marty Skolnik of the Gay and Lesbian Community Services Center joined our own Caltech staff member Shelley Diamond (who also chairs the L.A. Gay And Lesbian Scientists) to talk about homosexual stereotypes. Dealing with heterosexual friends and associates, and contending with misconceptions and phobias in private as well as professional settings were discussed informally, along with questions and comments from the audience. The damage done by the media in their often slanted portrayal of gays, especially in the case of the present AIDS epidemic (which affects humans, not just gay men), was also covered.

Episcopalian priest and psychotherapist Robert Iles spoke on Wednesday about sexual conduct and individual choice. Tradi-

tional stereotypes of "acceptable" sexual expression are artifacts of ancient societies that operated on economically and politically motivated principles that simply do not apply today. Power was family-based in the time of the Old Testament, and its continuation depended on having male heirs; non-procreative sex in a high-mortality world could endanger a family's continued existence.

The economic realities of today are different from those of even a century ago. Sex, love, and reproduction are all separate issues to be acted upon based on their relative merit for the individual in question.

Yesterday's noontime speaker, Dr. Robert Bragonier of the Harbor UCLA Medical Center, discussed the many cultural myths about sexual behavior he encounters as a counselor. Expectations and demands of one partner for the other, frustrated by poor communication, are often based on common misconceptions of male and female sexuality. Gender-identified roles of behavior are established at an early age in the individual as a result of parental and social pressure, and often go unquestioned until adulthood when relationship troubles arise. Women can be sexual instead of just sexy, men can be tender instead of tough.

The ideas expressed during the Symposium this week were not radical, nor were they new. They simply represented honest observations on the complicated question of human sexual behavior, freed from the myths, outdated opinions, and misperceptions of centuries of Western culture. By no means are older value systems dismissable as a whole; those who wish to abide by them are free to do so. But the traditional ideas about sexuality are a frequent cause for conflict and personal dilemma for some until they realize (or are informed) that the old ways are not universally applicable.

The Symposium also marked and openness on campus in discussing a central, if non-intellectual, aspect of adult life. Sexuality is a part of us all, and to ignore or repress it is to hinder healthy development. Even those who are too intimidated to seek answers now to their own questions will benefit with a more open attitude toward sexual topics; they may get answers yet.

The Symposium continues tonight (Friday) with the Sexual Awareness Workshop in the Y Lounge from 7:30 pm to about 10:30 pm, and then picks up again Saturday from 10 am to 5 pm (with lunch served). Sign up in the Y Office.

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

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## 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.

**KELROF**

KELROF is this weekend. There is no \$50 entry fee. Call John Beck at 449-9180 or come by room 128 Page.

**CLASSIFIED****HELP WANTED—**

**PROTEIN CHEMIST WANTED.** M.S. or Ph.D. Peptides in cancer research. Send resume to Dr. Tai, USC, 1840 No. Soto, Edmondson Bldg. Rm. 102, L.A. 90033

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**IDA Interview**

Recent Caltech graduate Maile Smith, PhD Chemistry, who has been with the Institute for Defense Analysis (IDA) since last fall, will be on campus on June 12th and 13th and would like to see undergrads (current Juniors) and grad students with any interest in IDA. No resume or formal dress required.

Come to the Career Development Center, 08 Parsons-Gates to sign up. IDA will conduct formal interviews next fall.

**Grants for Juniors**

Morgan Stanley & Co. has announced a new Management Information Systems Undergraduate Grant Program. This program is designed to identify and reward outstanding students with an interest in, though not necessarily training in, the securities industry. The program is open to all juniors of all majors. Minimum requirements include a GPA of 3.6 and a combined SAT score of 1450. Applicants should include a resume, copy of SAT scores, copy of college transcript, two recommendations from faculty members, and a research paper of three pages which would discuss the application of computer technology, or some area of study to which you have been exposed, to the security industry.

The Management Systems Information Department will offer two grants of \$8,000 each, to be awarded in the fall of 1985. Interested juniors should pick up more detailed information in the Financial Aid Office, room 10, Parsons-Gates. Deadline is June 30.

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**P★A★R★T★Y**

Yes, it's another CLAGS dance. This one will be Saturday, May 18th at 8:00 pm in Dabney Gardens. This dance is being thrown in cooperation with the Gay/Lesbian Student Unions from PCC and CSU Dominguez Hills, and there should be partiers from all over in attendance. KROQ deejay April will be providing the music, and there will be free beer, punch and munchies. We will be requesting a \$4.00 donation at the door, but don't worry—give whatever you feel it's worth.

**SWE Convention**

The Society of Women Engineers will sponsor two of its members to attend the SWE National Convention in Minneapolis, Minnesota from June 23-30. If you are interested in becoming an active SWE member next year, and would like to attend, please notify Yvette Madrid (x6188) before May 21.

**Portfolio**

The Caltech Student Investment Fund will meet on Wednesday May 22 and June 5 at 5pm in the Millikan Board Room. If you don't attend, you'll never receive the Morgan Stanley Award announced on this page.

**Spring Concert**

Why is Michael Chwe churning butter while fantasizing about Elena, and why does she like the longest way? Why are 30 robust men screaming "Hey!"? Where can you go to see 20 Tech women tap dance at one time?

For the answers to these and other provocative questions, come to the Glee Clubs' annual Spring Concert tomorrow night at 8:00 pm in Beckman Auditorium. Admission: ASCIT members \$2 (cheap!); Faculty/Staff: \$4 (great buy!)

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**Orchestra, Glee Clubs**

The Occidental-Caltech Symphony Orchestra, Allen Gross, Director, will present its final concert of the season this Wednesday, May 22. This program will feature the combined choral organizations of Occidental and Caltech in Brahms' *Song of Destiny*. Also featured will be the winners of the annual student concerto competition: Paul Vanderwerf will perform the Wieniawski Violin Concerto No. 1, and Ying-Fang Hsia will perform the Beethoven Piano Concerto No. 2. Both winners are students at Occidental. The program will open with Dvorak's *Slavonic Dance No. 1*.

The choral organizations participating are the Occidental College Glee Club and Occidental College Chorus, both directed by Tomas Somerville, the Caltech Men's Glee Club, directed by Donald Caldwell, and the Caltech Women's Glee Club, directed by Monica Hubbard.

The concert will take place at 8:30 pm at the Polytechnic School's new Garland Theater, which is located on Cornell Road between Wilson and Catalina, just across Wilson Avenue from the Caltech athletic field. With over 120 voices and nearly 60 instruments, this promises to be a memorable event (one way or another!), so be courageous, and venture those 2 blocks. Admission is free; for further information, call (213) 259-2574 or (818) 792-2147.

**Tanning Invitational**

The 5th Annual Tanning Invitational will be on Saturday, May 18th, at the 150 South Chester apartments. Events include best tan, best burn, most original tan, least untanned areas, etc. The invitational will feature music by the Benders, Hojo and the Blowhards, and the YLM's, and there will be contests in guzzling and underwater bicycle racing. Lost of food and beverages. So get out there and catch a few rays unless you really want to win the whitefish prize!

**Accompanist Needed**

The Women's Glee Club is looking for an undergrad or grad student to serve as accompanist for 1985-86. There are four hours per week of rehearsal time, plus on and off-campus performances, including a four-five day tour during Spring Break. Tad White, current accompanist, can give interested persons the "inside story," and Monica Hubbard, Director, has further details, including the salary. Mail Code: 102-31. Phone: x6197.

**1985 Fisher Award**

Taylor Lawrence has been selected as the 1985 recipient of the Haren Lee Fisher Memorial Award in Junior Physics.

**New Society**

Are you interested in: The Dark Ages, the Middle Ages, or the Renaissance?

Singing madrigals, dancing galliards, eating blancmange, drinking ale, swordfighting, horse-coursing, swashbuckling, tale-telling, heraldry, poetry, ribaldry, archery, and lots of good clean (???) fun?

Shakespeare, Dante, Cervantes, Chaucer, Palestrina, Costeley, Dowland, Charlemagne, Richard the Lion-Hearted, Lorenzo de Medici, Henry VIII, Galen, Al-Khwarizmi, Lucrezia Borgia, Copernicus, Gutenberg, etc.?

Chivalry, courtly love and medieval honor?

Anything or anyone between 300 and 1650 A.D.?

Well, whether you are or not, you are hereby cordially invited to attend the first-ever, everybody's-a-newcomer, "gosh-what-do-we-do-now?" meeting of the **Medieval and Renaissance Society**

Topics for discussion may include: the name of this fellowship, relationship (if any) with the Society for Creative Anachronism, membership requirements, etc. Refreshments will be served.

The Time: 8:00 pm, Thursday, May 23.

The Place: Caltech Y Lounge, in the Winnett Student Center.

For more information, contact: Daniel Briggs (CIT) 793-4740, or Gary Heiligman (JPL) 577-7015.

**German Film in Baxter**

There will be a showing of a film in Baxter Lecture Hall on May 22nd at 7:30 in conjunction with German 132b. The film *Das Beil von Wandsbek* (The Ax of Wandsbek) has German/English subtitles. Everyone is invited to attend.

**Cocktails**

The traditional Ricketts House Faculty/Student Cocktail Party will be held TODAY, May 17th, starting at 4 pm, in Ricketts Lounge. There will be lots of every type of booze under the sun. The Scurves invite all faculty to this one-of-a-kind chance to get to know your students.



OBO

**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*.

**Caltech 107-51**

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